<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	nCH1821239639
District RP	1RP-5139
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party PERMIAN WATER SOLUTIONS, LLC		OGRID 3	OGRID 373626			
Contact Name JENNI USHER			Contact T	Contact Telephone 512-820-8772		
Contact email JENNI@PERMIANWS.COM Incident # (assign			(assigned by OC	CD) nCH1834760902, nOY1823336566,		
Contact mailing address PO BOX 2106, MIDLAND, TX 79702			nOY1821950108, <u>nCH1821239639</u> , nOY1803834027, nOY1730058924.			
Latitude	32.48086			of Release S	-103.4	nKL1632848695, nJXK1616127644, nKJ1512041707, nTO1502927174, nPAC0531137785
			(NAD 83 in dec	imal degrees to 5 decir	nal places)	
Site Name	KAISER ST.	ATE SWD #009		Site Type	SALT WATE	ER DISPOSAL
Date Release	Discovered			API# (if app	olicable) 30-02	25-02538
Unit Letter	Section	Township	Range	Cour	nty	
F	13	21S	34E	LEA		
X Crude Oil		(s) Released (Select all Volume Release				the volumes provided below) ecovered (bbls)
X Crude Oil			1 /1 1 1 \			
X Produced	Water	Volume Release	· / UNKING			ecovered (bbls)
		Is the concentrat produced water >	ion of dissolved ch	nloride in the	Yes] No
Condensa	ite	Volume Release			Volume Re	ecovered (bbls)
☐ Natural G	ias	Volume Release	d (Mcf)		Volume Re	ecovered (Mcf)
Other (describe) Volume/Weight Released (provide units)		units)	Volume/Weight Recovered (provide units)			
Cause of Rel	ease					
C-141 FILE	D TO ADD	RESS MULTIPLE	E HISTORICAL IN	NCIDENTS AT T	HIS WELL.	

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Incident ID nCH1821239639

District RP 1RP-5139

Facility ID Application ID

Was this a major	If YES, for what reason(s) does the respon	nsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	AT LEAST ONE OF THE HISTORICA	L INCIDENTS REPORTED WAS GREATER THAN 25 BBLS,
19.13.29.7(A) NIVIAC:	WHICH SIGNIFIES A MAJOR RELEA	SE.
X Yes No		
·	•	nom? When and by what means (phone, email, etc)?
PLEASE SEE PREVIO	US C-141'S.	
	Initial Ro	esponse
The responsible j	party must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury
X The source of the rele	ease has been stopped.	
X The impacted area ha	s been secured to protect human health and	the environment.
X Released materials ha	ave been contained via the use of berms or o	likes, absorbent pads, or other containment devices.
X All free liquids and re	ecoverable materials have been removed an	d managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
		emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred
		please attach all information needed for closure evaluation.
I hereby certify that the info	rmation given above is true and complete to the	best of my knowledge and understand that pursuant to OCD rules and
regulations all operators are	required to report and/or file certain release noti	fications and perform corrective actions for releases which may endanger
failed to adequately investig	ate and remediate contamination that pose a thre	OCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In
addition, OCD acceptance o and/or regulations.	f a C-141 report does not relieve the operator of	responsibility for compliance with any other federal, state, or local laws
	Helleb	DECLY AMORY AND VICE
Printed Name:	USHER	Title: REGULATORY ANALYST
Signature: Jenní U.	sher	Date: 9/14/2021
email: JENNI@PERMI	ANWS.COM	Telephone: 512-820-8772
		1 - 27
OCD Only		
Received by:		Date:

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Incident ID	nCH1821239639
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Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)		
Did this release impact groundwater or surface water?	☐ Yes ☐ No		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No		
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No		
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No		
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No		
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No		
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No		
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No		
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No		
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No		
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No		
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☐ No		
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.			
Characterization Report Checklist: Each of the following items must be included in the report.			
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody			

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Received by OCD: 8/28/2023 2:02:22 PM State of New Mexico
Page 4 Oil Conservation Division

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Incident ID	nCH1821239639
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Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name:	Title:			
Signature:	Date:			
email:	Telephone:			
OCD Only Received by:	Date:			

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Incident ID	nCH1821239639
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Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	included in the plan.		
 □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation point □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29.1 □ Proposed schedule for remediation (note if remediation plan times) 	2(C)(4) NMAC		
Deferral Requests Only: Each of the following items must be con	firmed as part of any request for deferral of remediation		
	oduction equipment where remediation could cause a major facility		
Extents of contamination must be fully delineated.			
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.			
Printed Name:JENNI USHER	Title: REGULATORY ANALYST		
Signature: Jenní Usher	Date: 9/21/2021		
email: <u>JENNI@PERMIANWS.COM</u>	Telephone:512-820-8772		
OCD Only			
Received by:	Date:		
☐ Approved ☐ Approved with Attached Conditions of	Approval Denied Deferral Approved		
Signature:	Date:		

REMEDIATION PLAN IS TO FOLLOW SLO PHASE 1 AND PHASE 2 WORK PLANS USING TETRA TECH DELINEATION REVISED WORK PLAN DATED JANUARY 27, 2020 TO RESOLVE ALL OUTSTANDING INCIDENTS. WORK PLAN IS ATTACHED.

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachn	nent Checklist: Each of the following	g items must be inc	luded in the closure report.
A scaled site and sam	npling diagram as described in 19.15.29	9.11 NMAC	
Photographs of the remust be notified 2 days p		os of the liner integ	rity if applicable (Note: appropriate OCD District office
Laboratory analyses	of final sampling (Note: appropriate Ol	DC District office n	nust be notified 2 days prior to final sampling)
Description of remed	iation activities		
and regulations all operato may endanger public health should their operations have human health or the enviro compliance with any other restore, reclaim, and re-veg	rs are required to report and/or file cert h or the environment. The acceptance of failed to adequately investigate and roment. In addition, OCD acceptance of federal, state, or local laws and/or regugetate the impacted surface area to the fail NMAC including notification to the content.	tain release notificate of a C-141 report by remediate contamin of a C-141 report doubtions. The respondentions that exist OCD when reclam	oject Manager /5/23
OCD Only			
Received by: Shelly We	lls	Date: _8	/28/2023
remediate contamination th		ce water, human hea	I their operations have failed to adequately investigate and lth, or the environment nor does not relieve the responsible
Closure Approved by:	Nelson Velez Nelson Velez	Date:	09/01/2023
Printed Name:	Nelson Velez	Title:	Environmental Specialist - Adv

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

IN RE PERMIAN WATER SOLUTIONS, LLC

NMOCD-ACO-201813

AGREED COMPLIANCE ORDER

Pursuant to the New Mexico Oil and Gas Act ("Act"), NMSA 1978, Section 70-2-1, et seq., and 19.15.29.15 NMAC, the Director of the Oil Conservation Division ("OCD") and Permian Water Solutions, LLC ("PWS") enter into this Agreed Compliance Order ("Order").

I. FINDINGS OF FACT AND CONCLUSIONS OF LAW

- 1. OCD is charged with the administration and enforcement of the Act and the rules adopted thereunder, and has jurisdiction over Operator and its wells and sites in New Mexico.
- 2. PWS owns the wells identified in Exhibit A ("Wells").
- 3. On October 15, 2018, Cambrian Management, LTD and PWS submitted a Form C-145 application and requested OCD's approval to transfer the Wells.
- 4. PWS in the Form C-145 application certified that, as a condition of OCD's approval to transfer the Wells, it would be responsible to take corrective action for releases at the Wells, "including releases that occurred before I became operator of record."
- 5. On October 16, 2018, OCD approved the Form C-145 application to transfer the Wells.
- 6. Pursuant to 19.15.29.7(C) NMAC, PWS is the "responsible party" for the releases at the Wells.
- 7. Pursuant to 19.15.29 NMAC, PWS must characterize and remediate the releases at the Wells identified in Exhibit A ("Incidents").
- 8. PWS has initiated the characterization and remediation of the Incidents at the Kaiser Well
- 9. OCD is authorized to impose sanctions for violations of the Oil and Gas Act and orders issued and rules promulgated pursuant to the Oil and Gas Act, including denial or revocation of registrations, applications, permits, authorizations and transfers, and the assessment of civil penalties. See 19.15.5.10 NMAC.
- 10. PWS requests this Order in order to avoid sanctions under the Oil and Gas Act and 19.15.29 NMAC for the Incidents and to provide PWS an opportunity to demonstrate its commitment to compliance with the Act and rules.

PWS admits the findings of fact and waives its right to appeal from this Order, provided however that PWS reserves the right to appeal OCD's interpretation or application of this Order.

II. ORDER

12. <u>Kaiser Incidents.</u> PWS shall complete the remediation of the Kaiser Incidents in accordance with the OCD-approved remediation plan.

13. Other Incidents.

- A. PWS shall submit characterization and remediation work plans for the Incidents through the OCD fee portal no later than May 27, 2022.
- B. If OCD does not approve a characterization or remediation work plan, OCD shall provide a written explanation of the deficiency, and no later than thirty (30) days after OCD provides such explanation, PWS shall submit a revised work plan addressing the deficiency. If OCD does not approve the revised work plan, OCD shall provide a written explanation of the deficiency, and no later than thirty (30) days after OCD provides such explanation, PWS shall submit a second revised work plan addressing the deficiency. If OCD does not approve the second revised work plan, PWS shall be in breach of the Order, and PWS shall pay a stipulated penalty and be subject to additional sanctions as provided below.
- C. No later than the last deadline, which includes any extensions granted, as established by OCD for the final completion of the remediation work of each of the other Incidents, PWS shall complete the characterization and remediation of each of the other Incidents, provided however that PWS may request an extension of time for good cause shown.
- D. In evaluating a request for an extension of time under subparagraph C, OCD shall consider PWS's status as a small operator with limted resources, its ongoing commitment of resources to other remediation projects in New Mexico, including the Kaiser remediation project, and its need to reallocate resources before commencing a a remediation project required by this Order.

- Documents and Other Communications.
 - A. Paragraphs 13 and 14. PWS shall submit all documents related to Paragraphs 13 and 14 through the OCD Permitting fee portal.
 - B. Other Communications. All other communications related to the Order shall be submitted electronically to:

OCD: Jesse Tremaine, Esq.

JesseK.Tremaine@state.nm.us

PWS: Luke Kittinger, Esq. Luke@abadieschill.com

- 15. If PWS fails to comply with a requirement of this Order, no later than thirty (30) days after receipt of a written demand from OCD, in addition to any other sanction imposed by OCD pursuant to the Oil and Gas Act and the rules adopted thereunder, PWS shall pay a stipulated penalty of \$500.00 for each day until it complies with each separate requirement ("Stipulated Penalty"). Each failure to comply with a requirement of this Order shall be subject to a separate Stipulated Penalty.
- 16. If PWS fails to pay the Stipulated Penalty or portion thereof within thirty (30) days after receipt of a written demand from OCD, it shall pay interest on the Stipulated Penalty or unpaid portion thereof until paid in full at the interest rate of 8.75 percent.
- 17. Notwithstanding an assessment of a Stipulated Penalty, PWS shall comply with its remaining obligations of this Order.
- 18. Upon receipt of written request, OCD and PWS shall confer in good faith to resolve any dispute regarding the Order.
- 19. If PWS cannot reasonably perform or achieve an obligation under this Order due to Force Majeure, OCD shall stay the obligation and any other reasonably related obligation until OCD in its sole discretion decides PWS can reasonably comply with such obligation and the period for compliance with such obligation and any other reasonably related obligation shall be extended for an additional number of days equivalent to the period of the stay. For the purpose of this Order, Force Majeure means an event beyond the reasonable control of PWS which prevents PWS from complying with an obligation under this Order, including fire, explosion, earthquake, drought, flood, war, terrorism, or an agency's undue delay to issue a permit, easement, license or other required consent required to comply with this Order.
- 20. Upon successful completion of this Order, OCD shall notify PWS in writing that it is released from liability for the Incidents.

21. OCD reserves the right to sanction PWS for any alleged violation not addressed in this Order, provided however that PWS reserves all rights accorded by statute and regulation.

NEW MEXICO OIL CONSERVATION DIVISION

Woul	Date:	2/17/2022	
Adrienne Sandoval			
Director			

PERMIAN WATER SOLUTIONS, LLC

Josh Brooks President Pate: 1-28-20

EXHIBIT A

WELL	API	INCIDENT ID	DISCOVERY DATE	LOCATION	DISTRICT	MATERIAL	SOURCE
KAISER STATE SWD #009	30-025-02538	nCH1834760902	11/2/2018	F-13-21S-34E	Hobbs		
KAISER STATE SWD #009	30-025-02538	nOY1823336566	8/17/2018	F-13-21S-34E	Hobbs	Produced Water	Valve
KAISER STATE SWD #009	30-025-02538	nOY1821950108	8/6/2018	F-13-21S-34E	Hobbs	Produced Water	Pump
KAISER STATE SWD #009	30-025-02538	nCH1821239639	6/20/2018	F-13-21S-34E	Hobbs	Produced Water	Other
KAISER STATE SWD #009	30-025-02538	nOY1803834027	2/7/2018	F-13-21S-34E	Hobbs	Produced Water	Pump
KAISER STATE SWD #009	30-025-02538	nOY1730058924	10/18/2017	F-13-21S-34E	Hobbs	Produced Water, Crude Oil	Unknown
KAISER STATE SWD #009	30-025-02538	nKL1632848695	not stated	F-13-21S-34E	Hobbs	Produced Water	Frac Tank
KAISER STATE SWD #009	30-025-02538	nJXK1616127644	5/17/2016	F-13-21S-34E	Hobbs	Produced Water	Tank
KAISER STATE SWD #009	30-025-02538	nKJ1512041707	4/24/2015	F-13-21S-34E	Hobbs	Produced Water	Pipeline
KAISER STATE SWD #009	30-025-02538	nTO1502927174	1/14/2015	F-13-21S-34E	Hobbs	Produced Water	Production Tank
KAISER STATE SWD #009	30-025-02538	nPAC0531137785	9/11/2005	F-13-21S-34E	Hobbs	Produced Water	Pipeline
DORSTATE SWD #001	30-015-23728	nAB1724135283	8/23/2017	H-27-25S-28E	Artesia	Produced Water	Other
DORSTATE SWD #001	30-015-23728	nAB1613157015	5/2/2016	H-27-25S-28E	Artesia	Produced Water	Valve
A N ETZ #001	30-025-07713	nOY1804732368	7/15/2017	P-26-19S-38E	Hobbs	Produced Water	Flow
RICE SWD F #029	30-025-12802	nLWJ1008538662	11/11/2006	F-29-18S-38E	Hobbs	Produced Water	Other
RICE SWD F #029	30-025-12802	nPAC0633335042	11/11/2006	F-29-18S-38E	Hobbs	Produced Water	Pipeline
ANN SWD #001	30-015-23580	nMAP1825433366	9/5/2018	G-18-19S-26E	Artesia	Produced Water	Tank
DELAWARE RIVER #002	30-015-24784	nAB1721451368	7/25/2017	E-11-26S-28E	Artesia	Produced Water	Fitting
EXXON STATE #003	30-015-01096	nGEG0433742034	12/2/2004	O-15-21S-27E	Artesia	Crude Oil	Production Tank
ROHMER #001	30-015-25722	nAB1817142364	6/13/2018	F-23-22S-27E	Artesia	Produced Water	Valve



CLOSURE REPORT FOR KAISER STATE SWD LEA COUNTY, NEW MEXICO

Prepared for:

PERMIAN WATER SOLUTIONS, LLC.

P.O. Box 2106 MIDLAND, TEXAS 79702

Prepared by:

Tetra Tech

901 West Wall Street, Suite 100 Midland, Texas 79701 (432) 682-4559 Fax (432) 682-3946

May 2, 2023

complex world CLEAR SOLUTIONS-



May 2, 2023

New Mexico State Land Office 310 Old Santa Fe Trail P.O. Box 1148 Santa Fe, New Mexico 87504 Oil Conservation Division, District 1 1625 North French Drive Hobbs, New Mexico, 88240

Re: Closure Report for the Permian Water Solutions, LLC., Kaiser State SWD, Unit F, Section 13, Township 21 South, Range 34 East, Lea County, New Mexico.

Oil Conservation Division:

Tetra Tech, Inc. (Tetra Tech) was contacted by Permian Water Solutions, LLC. (Permian Water Solutions) to assess the impacted areas at the Kaiser State SWD, Unit F, Section 13, Township 21 South, Range 34 East, Lea County, New Mexico. The site coordinates are 32.48086°, -103.42566°. The site location is shown on **Figures 1** and **2**.

Background

Ten releases occurred at the site impacting the pad area and inside the facility berms. The initial C-141 Forms are include in **Appendix A**.

- NPAC0531137785: According to the State of New Mexico Permitting Site, the release
 was discovered on September 11, 2005 and released approximately 10 bbls of produced
 water due to a broken line. Approximately 9 bbls of fluids were recovered.
- 1RP-3512: According to the State of New Mexico C-141 Initial Report submitted by Pyote Water Systems, LLC, the release was discovered on January 14, 2015 and released approximately 20 bbls of produced water due to a vac truck overfilling the sumps. Approximately 20 bbls of fluids were recovered.
- 1RP-3621: According to the State of New Mexico C-141 Initial Report submitted by Pyote Water Systems, LLC, the release was discovered on April 24, 2015 and released approximately 100 barrels of produced water due to a truck hitting a load line. Approximately 100 bls of fluids were recovered.
- **1RP-4305**: According to the State fo New Mexico C-141 Initial Report submitted by Pyote Water Systems, LLC, the release was discovered on May 17, 2016 and released approximately 1,050 bbls of produced water due to a lightning strike. Approximately 1,050 bbls of fluids were recovered.
- 1RP-4525: According to the State of New Mexico C-141 Initial Report submitted by Cambrian Management, LTD, the release was due to a leak in the frac tanks used



during facility reconstruction after the lightning strike. An unknown volume of fluids was released, and none were recovered.

- 1RP-4855: According to the State of New Mexico C-141 Initial Report submitted by Cambrian Management, LTD, the release was discovered on October 18, 2017 and released approximately 50 bbls of produced water and crude oil within the berm due to an unknown cause. None of the fluids were recovered.
- **1RP-4960:** According to the State of New Mexico C-141 Initial Report submitted by Cambrian Management, LTD, the release was discovered on January 31, 2018 and released approximately 20 bbls of produced water due to a failed pump seal. Approximately 10 bbls of free-standing fluids were recovered.
- **1RP-5139:** According to the State of New Mexico C-141 Initial Report submitted by Cambrian Management, LTD, the release was discovered on June 20, 2018 and released approximately 150 bbls fo produced water due to a failure on the wellhead. Approximately 150 bbls of fluids were recovered.
- 1RP-5149: According to the State of New Mexico C-141 Initial Report submitted by Cambrian Management, LTD, the release was discovered on August 6, 2018 and released approximately 200 bbls of produced water due to a valve malfunction. Approximately 200 bbls of fluids were recovered.
- 1RP-5163: According t State of New Mexico C-141 Initial Report submitted by Cambrian Management, LTD, the release was discovered on August 17, 2018 and released approximately 500 bbls of produced water due to a valve malfunction, causing tanks to overflow onto the lined berm. Approximately 500 bbls of fluids were recovered.
- **1RP-5273:** According to the State of New Mexico C-141 Initial Report submitted by Permian Water Solutions, LLC, the release was discovered November 2nd, 2018 and released approximately 20 bbls of crude oil due to an oil skim tank overflowing onto the berm. Approximately 16 bbls of fluids were recovered.

Site Assessments

Tetra Tech conducted site assessment activities from May 7th, 2019, to January 13, 2020, and the details of these activities are thoroughly described in the approved Work Plan (*Revised Work Plan for Permian Water Solutions, LLC., Kaiser State SWD* dated January 27, 2020) included in **Appendix B**. From the dates of May 7th through the 14th, 2019, Tetra Tech installed a total of thirty-two (32) sample points using a combination of a truck-mounted air rotary rig, and a stainless-steel hand auger. At this time, vertical delineation for total BTEX and total TPH was not achieved for the sample points installed within the bermed areas, due to the presence of storage tanks and utilities on the site. Additionally, at the request of NMSLO, the tanks observed on the western berm were removed and Tetra Tech returned to the site on January 13, 2020, and installed 2 more bore holes in the areas of the previous location of the tanks.



The proposed work following the sampling activities included the excavation of 13 different areas corresponding to the sample points (SP-1 through SP-10, SP-17 through SP-21, SP-23 through SP-30, SP-34, SP-36, SP-37, and SP-38) and proposed depths ranging from 0.5-1 ft bgs, to 15 ft bgs. The proposed excavation areas and depths are depicted in **Figure 4** of the **Revised Work Plan** included in **Appendix B**.

Site Characterization

Significant Water Features

According to the NFHL (National Flood Hazard Layer) Flood Data Application and the USGS (United States Geological Survey) National Water Information System Mapper, there were no watercourses, lakebeds, sinkholes, playa lakes, springs, wetlands, subsurfaces mines, private domestic water wells, or floodplains located within the specified distances. Additionally, the site is located in a low karst potential area. The NFHL Map and USGS Mapper are shown in **Appendix B** of the **Revised Work Plan**.

Significant Boundaries

According to Google Earth US Government City Boundaries and US School Districts, the lateral extents of the release were not within a incorporated municipal boundaries, defined municipal fresh water well field, or a school district. Additionally, there were no occupied permanent residences, schools, hospitals, institution, or churches located within the specified distances of the lateral extents of the release.

Groundwater Review

Groundwater research was completed for the site through the USGS (United States Geological Survey) National Water Information System and New Mexico Office of the State Engineer (NMOSE) Water Rights Reporting System. Groundwater research conducted through these two resources, show the closest water well approximately ½ mile south of the site, and has a reported depth to groundwater fo 101 feet below surface. The groundwater information is shown in **Appendix B** of the **Revised Work Plan**.

Monitoring Well

A monitoring well was installed near the western end fo the pad on August 19, 2021, as part of the monitoring and abatement program requirements mandated by the New Mexico State Land Office (NMSLO). The total depth (TD) of the well was 87.5 ft bgs, and the depth to watertable (DTW) was reported at 71.5 ft bgs. Per the request of the NMSLO, and the New Mexico Oil Conservation Division (NMOCD), a water sample was collected from the well on August 27, 2021, and it was submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA method 8021B, and chloride by EPA method 300.0. Copies of laboratory Copies of laboratory analysis and chain-of-custody documentation are included in **Appendix D**. The water sample collected (MW-1) did not indicated any concentrations of BTEX and TPH, however a chloride concentration of 3,3570 mg/L, and total dissolved solids of 9,590 mg/L were indicated.



Regulatory

A risk-based evaluation was performed for the site following the NMOCD's Guidelines for Remediation of Leaks, Spills, and Releases, updated August 14, 2018. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene and for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene) was determined to be nondetect according to the NMSLO's requirements. Based upon the site characterization, the proposed RRAL beyond the top 4.0' of soil, for TPH is 1,000 mg/kg (GRO + DRO + ORO). Additionally, based on the site characterization as well as the NMSLO requirements, the proposed RRAL beyond the top 4.0' of soil, for chlorides is 7,000 mg/kg.

Remediation Activities

Excavation began on site in August 2020, as Permian Water Solutions and Tetra Tech proceeded with the proposed excavation shown in **Figure 4** of the **Revised Work Plan** included in **Appendix B**. The original Contract Substantial Completion Date of November 17, 2020 was not met due to increasing complexity of mobility and excavation, and increasing volume of material to be removed, and a Revised Contract Substantial Completion Date was set for July 12, 2021; a completion date that was also missed due to increasing complexity of project and volume of material that needed to be removed.

Contract SW-330 was then submitted as a two-phase approach to the remediation activities to divide the affected areas in two sections (eastern and western) to facilitate mobility, accessibility, and overall safety of project. The areas included in phase I and phase II are depicted in **Figure 4**. Additionally, bi-weekly meetings were established with representatives from the OCD, NMSLO, Permian Water Solutions, and Tetra Tech, to discuss the state of the project and its progress. The copies of the progress meetings notes are included in **Appendix C**.

<u>Phase I</u>

Tetra Tech conducted confirmation sampling activities starting October 25, 2021, as part of the Kaiser State SWD #9 Phase I completion. From October 25 through December 12, 2021, a total of 124 five-point composite samples were collected for the completion of Phase I including 91 bottom hole samples (BH-1 through BH-91), 33 sidewall samples (SW-1 through SW-33). Additionally, three discrete samples (DS-1, DS-2, and DS-3) were collected for areas showing visual evidence of staining. The selected soil samples were collected and submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in **Appendix D**. The results of the sampling are summarized in **Table 1**, sample locations are shown on **Figure 5**.

Referring to **Table 1**, the areas for all the samples collected (BH-1 through BH-91, and SW-1 through SW-33) indicated total BTEX, TPH, and chloride concentrations below RRALs with the exception of the area for sample (SW-8) which indicated a chloride concentration of 9,820 mg/kg, exceeding the maximum of 7,000 mg/kg requested by the NMSLO for chlorides.



However, based on the NMOCD's remediation standard maximum of 10,000 mg/kg for chlorides, the NMSLO approved leaving the area in place. The areas for the three discrete samples collected (DS-1, DS-2, and DS-3) indicated chloride concentrations above RRALs at 1,310 mg/kg at 2 ft bgs, 7,010 mg/kg at 3 ft bgs, and 7,820 mg/kg at 2 ft bgs, respectively. Additionally, the areas of samples (DS-2, and DS-3) indicated total TPH concentrations above RRALs with levels at 1,290 mg/kg, and 1,980 mg/kg, respectively.

The areas for samples (SW-8, DS-1, DS-2, DS-3) were planned to be addressed via a remediation plan extension approved and denoted as Kaiser State SWD #9 Phase 1.5. Following remediation activities, Tetra Tech conducted confirmation sampling by collecting five-point composite bottom hole samples, and five-point composite sidewall samples every 500 square feet within the remediation. A total of 22 bottom hole samples (BH-92 through BH-113), and 4 five-point composite sidewall samples (SW-34 through SW-37) were collected beginning May 6, 2022. Sample locations for the excavation areas corresponding to Phase 1.5 are shown in **Figure 5**. Referring to **Table 1**, all of the areas for the samples collected indicated total BTEX, TPH, and chloride concentrations below RRALs, except for the area for sample (BH-103), that exceeded the limit requested by SLO with an indicated concentration of 7,750 mg/kg at 5 ft bgs.

Phase II

Tetra Tech conducted confirmation sampling activities from July 6, 2022 through December 14, 2022, as part of the Kaiser State SWD #9 Phase II completion. A total of 145 five-point composite samples were collected in this time: 99 bottom hole samples (BH-114 through BH-212), and 46 sidewall samples (SW-38 through SW-83). Additionally, the selected soil samples were collected and submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in **Appendix D**. The results of the sampling are summarized in **Table 1**, sample locations are shown on **Figure 6A** and **6B**.

Referring to **Table 1**, the areas for all the bottom hole samples (BH-114 through BH-212) indicated concentrations of total BTEX, total TPH, and chloride below the RRALs. All the areas for sidewall samples (SW-38 through SW-83) indicated concentrations of total BTEX, total TPH, and chloride below the RRALs with the exception of samples (SW-45, SW-46, SW-53, SW-54, SW-56, SW-58, SW-60, SW-69, SW-70, SW-71, SW-72, SW-75, SW-76, SW-77, SW-78, SW-79, and SW-83).

The following areas indicated constituents above the criteria, however they were removed from site as part of the expansion of the excavation and do not represent areas of the final surfaces of the excavation. The area corresponding to sample (SW-45) indicated an elevated total TPH concentration of 1,110 mg/kg at a depth of 4.5-8 ft bgs. The area for sample (SW-54) indicated an elevated chloride concentration of 717 mg/kg at 0-4.5 ft bgs. The area corresponding to sample (SW-58) indicated an elevated total TPH concentration of 8,970 mg/kg at 6-8 ft bgs. The area corresponding to sample (SW-78) indicated an elevated chloride concentration of 15,800 mg/kg at 4-10 ft bgs.



The following are the areas where one or more of the constituents was above the criteria and variance from RRALs were requested mostly for safety and conservation reasons:

- Sample (SW-46): This area indicated a chloride concentration of 995 mg/kg at 0-5 ft bgs, the variance request was approved on October 12, 2022. The variance was requested due to the proximity of the excavation to pasture off-lease to the north, and on the basis of the additional horizontal delineation sample (H-1) indicating a chloride concentration of 72.0 mg/kg at depth from surface to 2 ft bgs.
- Samples (SW-53, SW-56, SW-68, and SW-77): These areas indicated chloride concentrations of 2,180 mg/kg, 1,120 mg/kg, 2,210 mg/kg, and 3,710 mg/kg, respectively; the variance request was approved on October 12, 2022. The variance was requested due to the proximity of the excavation to property off-lease to the west, and on the basis of the additional horizontal delineation samples (H-2 through H-6) indicated chloride concentrations ranging from 17.0 mg/kg to 57.3 mg/kg at depths from surface to 2 ft bgs.
- Samples (SW-60, SW-69, SW-70, and SW-71): The areas for samples (SW-60, SW-69, and SW-71) indicated chloride concentrations of 2,390 mg/kg, 6,380 mg/kg, and 1,460 mg/kg, respectively. The areas of samples (SW-69, and SW-70) indicated total TPH concentrations of 1,890 mg/kg, and 1,770 mg/kg, respectively. The variance request was approved on October 12, 2022. The variance was requested to prevent the damaging of the monitor well that could have occurred as part of the extension of the excavation into the omnidirectional 15' exclusion zone previously established for the monitor well.
- Sample (SW-72): This area indicated a total TPH concentration of 436 mg/kg. The
 variance request was approved on November 28, 2022. The variance was requested
 based on the criteria-complying sample previously collected at SW-72 at 0-8 ft bgs,
 and the additional horizontal delineation samples (H-8 and H-9) indicating chloride
 concentrations of 89.9 mg/kg and 672 mg/kg, for the areas corresponding to the
 extension of SW-72.
- Samples (SW-75, SW-76, SW-79, and SW-83): These areas indicated chloride concentrations of 931 mg/kg, 613 mg/kg, and 1,070 mg/kg, respectively. The variance request was approved on January 18, 2023. The variance was requested based on the limited impacts of the soil at depth, indicated by the previously collected data for areas involved in the extension of sidewalls SW-76 and SW-79 (SP-15), and SW-75 and SW-83 (SP_7). The data for sample points (SP-7, SP-15) can be found in Table 1 for the Revised Work Plan included in Appendix B of this report.

The variances were approved by the Oil Conservation Division and the New Mexico State Land Office, and the emails with the requests and approvals are included in **Appendix A.**



Conclusions

Following remediation of the areas of impact, Tetra Tech conducted confirmation soil sampling of the area by collecting 5-point composite confirmation bottom hole and sidewall samples to ensure the impacted soil was fully removed. Approximately 48,000 cubic yards of impacted soil was removed and properly disposed of, and the area was backfilled with clean to surface grade material. The analytical results indicated all confirmation samples reported below the RRALs for all constituents. The final reclamation and reseeding of the remediated areas will be deferred until site abandonment. Based on this information, it is recommended that the site and the associated release numbers (NPAC0531137785, 1RP-3512, 1RP-3621, 1RP-4305, 1RP-4525, 1RP-4855, 1RP-4960, 1RP-5139, 1RP-5149, 1RP-5163, and 1RP-5273) receive closure. The final C-141 forms are included in **Appendix A**.

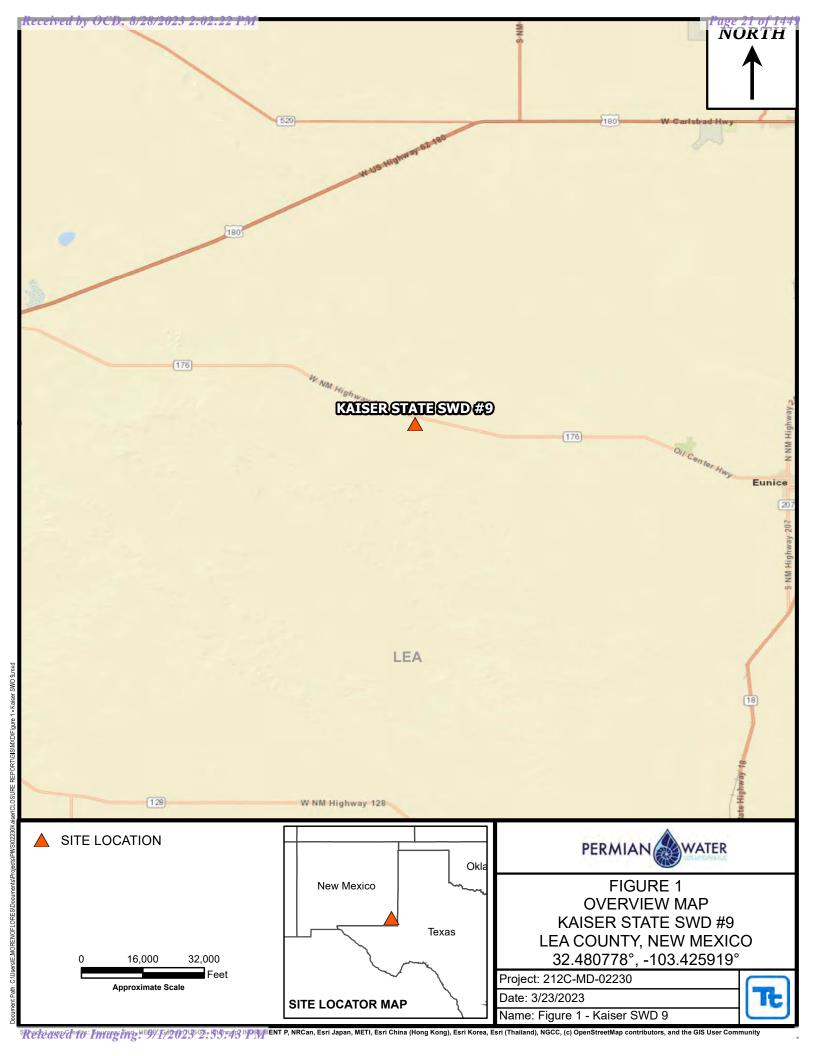
If you require any additional information or have any questions or comments, please contact us at (432) 682-4559.

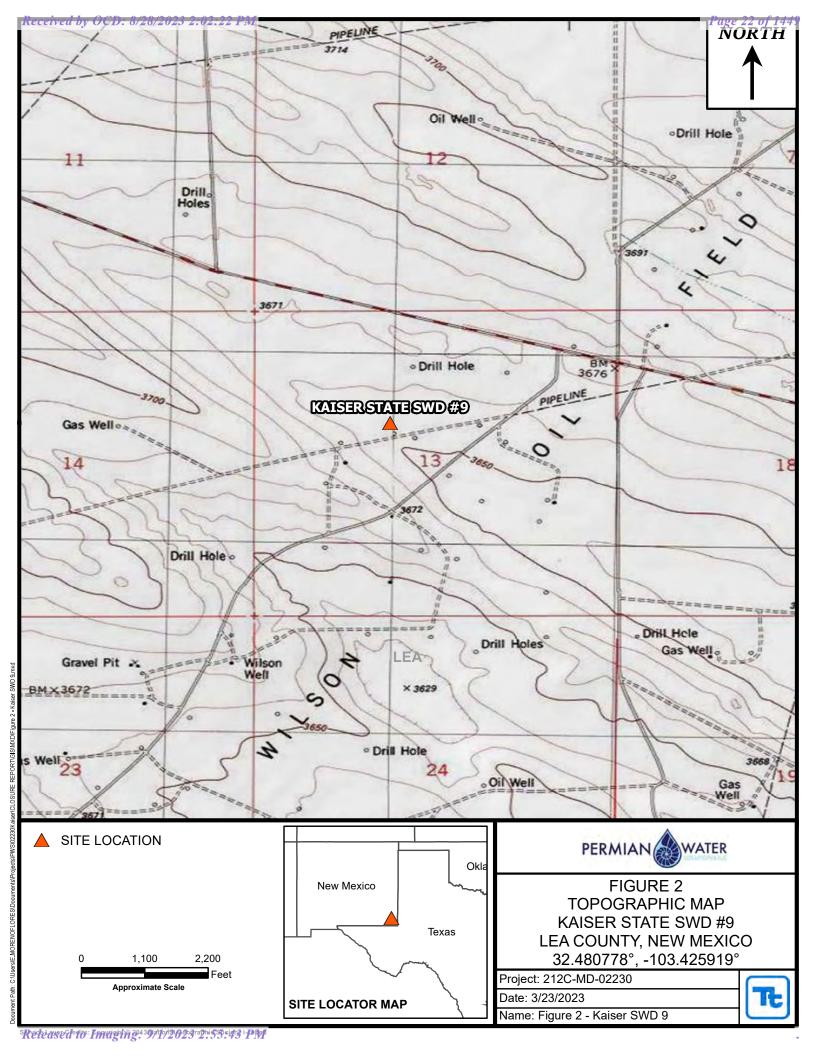
Respectfully submitted, TETRA TECH

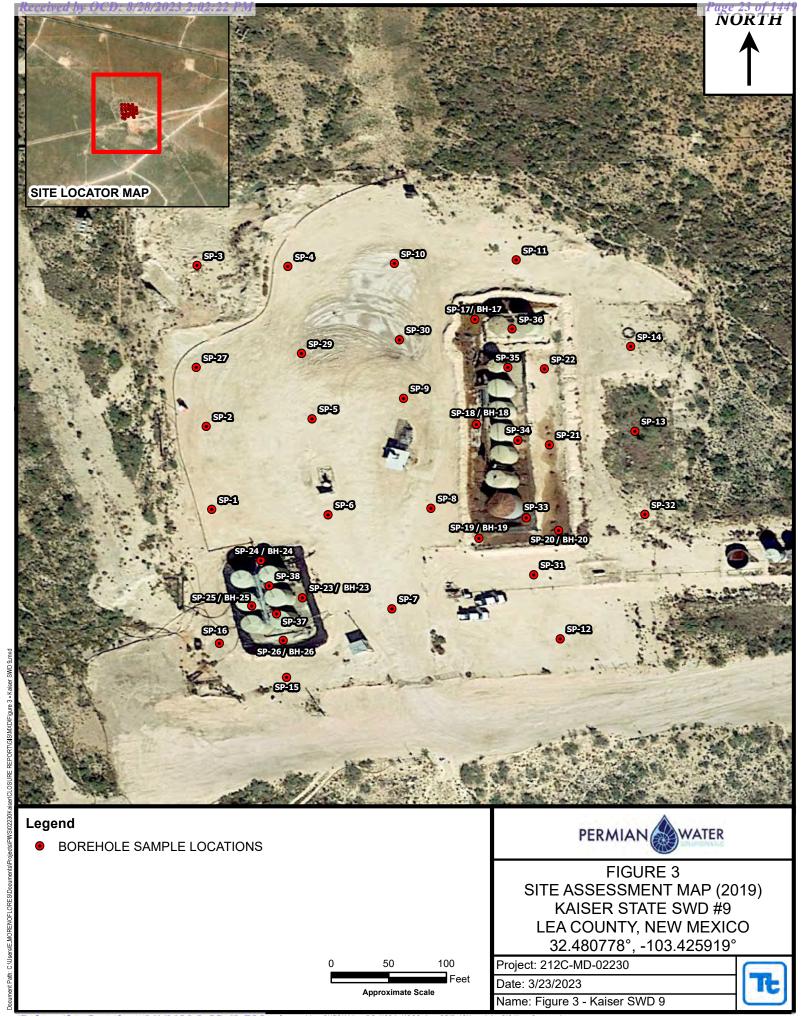
Ezequiel MorenoFlores, Geologist Brittany Long, Project Manager Clair Gonzales, P.G, Senior Project Manager

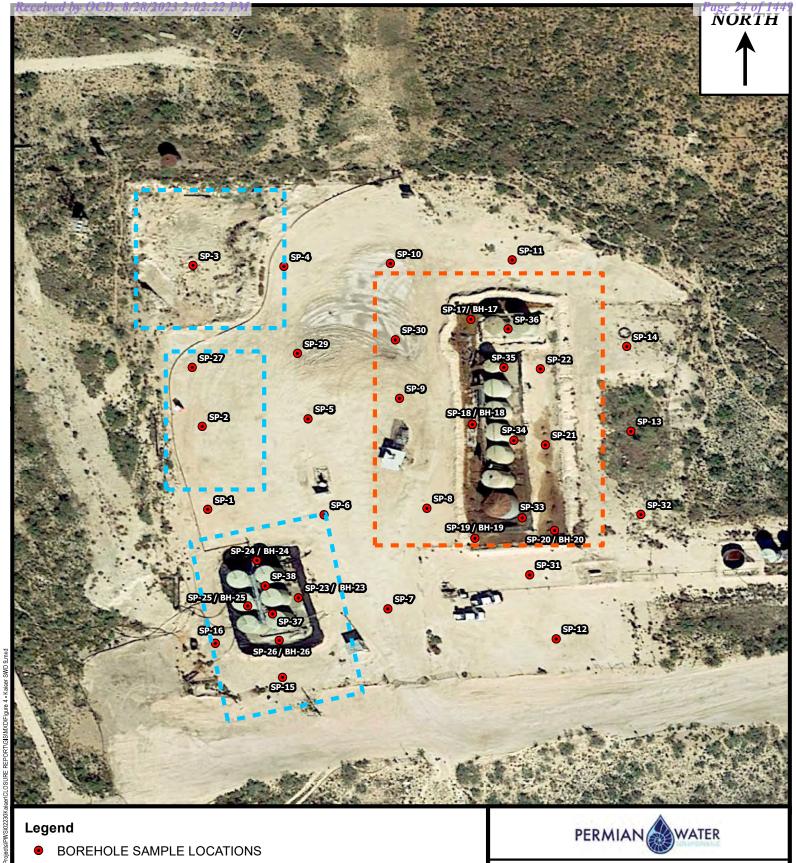


Figures









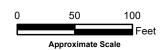
- PHASE I OUTLINE
- PHASE II OUTLINE

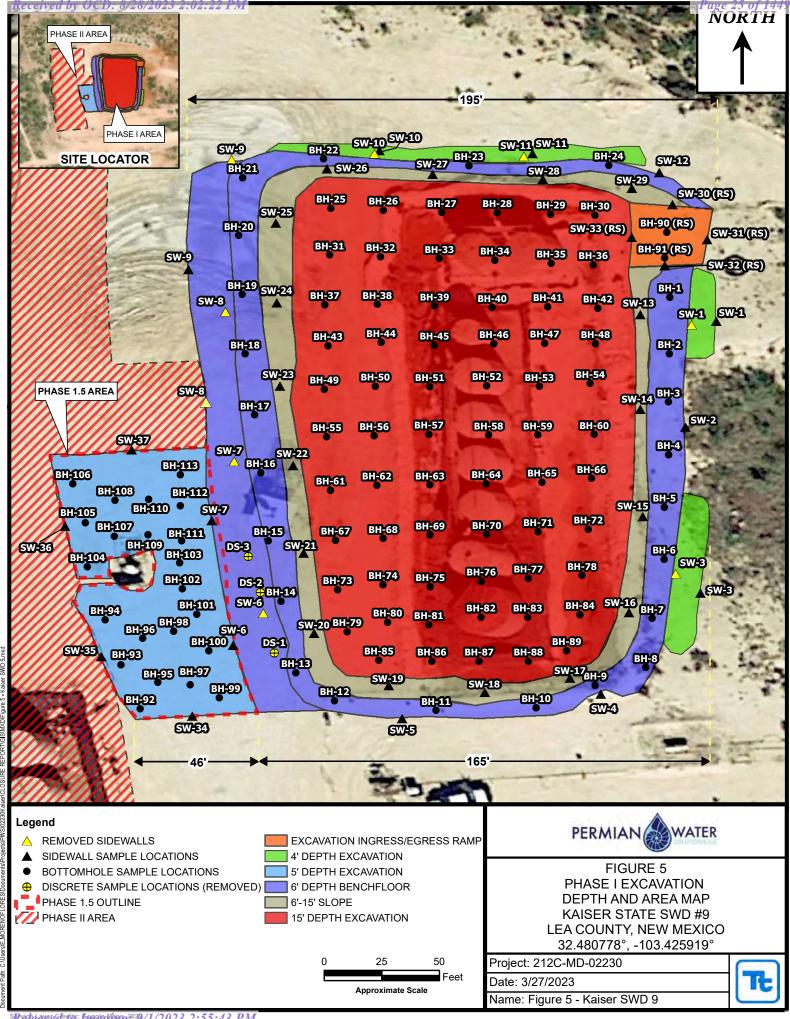
FIGURE 4
PROPOSED PHASE I AND PHASE II
KAISER STATE SWD #9
LEA COUNTY, NEW MEXICO
32.480778°, -103.425919°

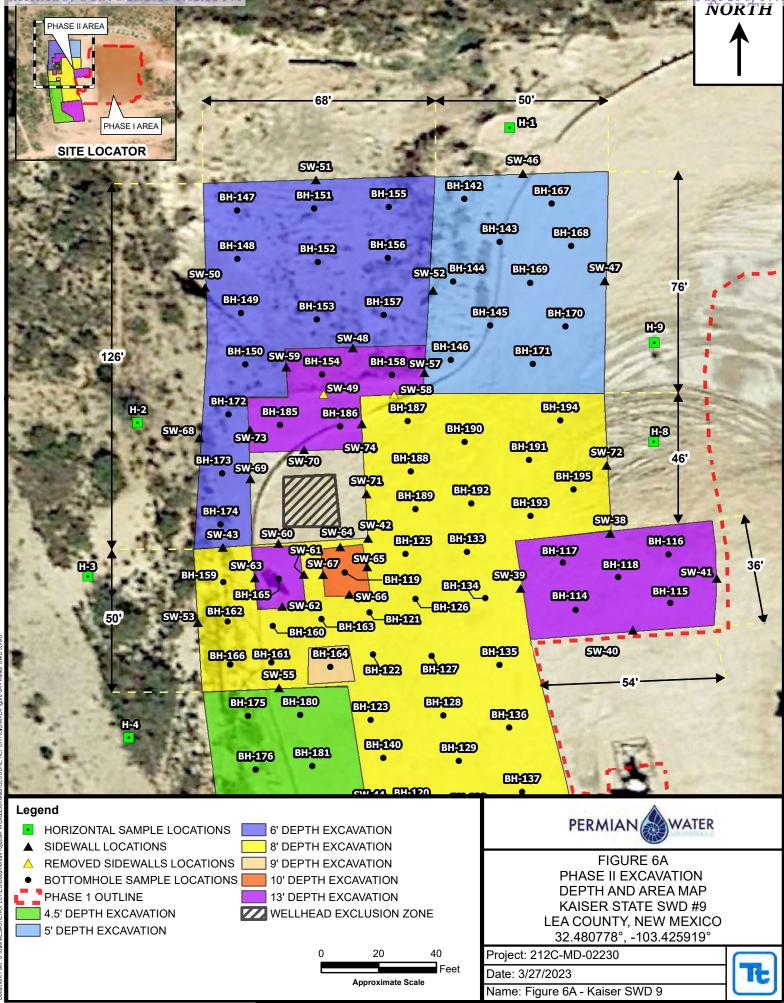
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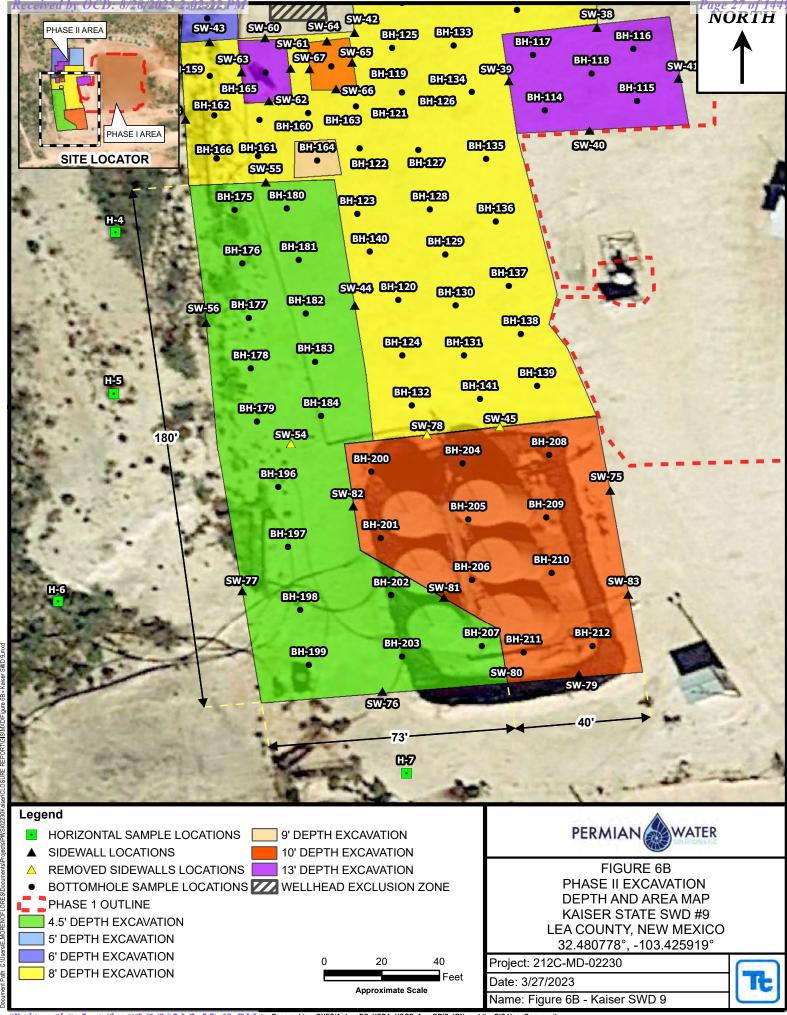
Date: 3/23/2023

Name: Figure 4 - Kaiser SWD 9











Tables

Table 1
Permian Water Solutions
Kaiser SWD
Phase I and II Confirmation Sampling
Lea County, New Mexico

0	Ormalia Bat	BEB Sample	Soil	Status		TPH ((mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Sample Date	Depth (ft)	In-Situ	Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH-1	10/27/2021	6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,680
BH-2	10/27/2021	6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	235
BH-3	10/27/2021	6	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	60.7
BH-4	10/27/2021	6	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	48.9
BH-5	10/27/2021	6	Х	-	<49.8	51.5	<49.8	51.5	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	123
BH-6	10/27/2021	6	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	534
BH-7	10/27/2021	6	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	546
BH-8	10/27/2021	6	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,990
BH-9	10/27/2021	6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	1,980
BH-10	10/27/2021	6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,500
BH-11	10/27/2021	6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,330
BH-12	10/27/2021	6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	1,170
BH-13	10/27/2021	6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,370
BH-14	10/27/2021	6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	4,450
BH-15	10/27/2021	6	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	4,220
BH-16	10/27/2021	6	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	3,560
BH-17	10/27/2021	6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,350
BH-18	10/27/2021	6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	2,390
BH-19	10/27/2021	6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	2,060
BH-20	10/27/2021	6	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	449
BH-21	10/27/2021	6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	169
BH-22	10/27/2021	6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,220
BH-23	10/27/2021	6	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	141
BH-24	10/27/2021	6	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	107
BH-25	10/27/2021	6	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	447
BH-26	10/27/2021	6	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	1,450
BH-27	10/27/2021	15	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	372
BH-28	10/27/2021	15	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	290
BH-29	10/27/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	139
BH-30	10/27/2021	15	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	156
BH-31	10/27/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	689
BH-32	10/27/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	833

Table 1
Permian Water Solutions
Kaiser SWD
Phase I and II Confirmation Sampling
Lea County, New Mexico

		BEB Sample	Soil	Status		TPH (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Sample Date	Depth (ft)	In-Situ	Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH-33	10/27/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	504
BH-34	10/27/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	140
BH-35	10/27/2021	15	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	333
BH-36	10/27/2021	15	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	286
BH-37	10/27/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	4,260
BH-38	10/27/2021	15	Х	-	<49.9	87.2	<49.9	87.2	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	2,030
BH-39	10/27/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	3,300
BH-40	10/27/2021	15	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	1,190
BH-41	10/27/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	0.00222	<0.00399	<0.00399	702
BH-42	10/27/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	461
BH-43	10/27/2021	15	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	2,440
BH-44	10/27/2021	15	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	465
BH-45	10/27/2021	15	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	284
BH-46	10/27/2021	15	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	2,560
BH-47	10/27/2021	15	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	122
BH-48	10/27/2021	15	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,050
BH-49	10/27/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	472
BH-50	10/27/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	0.0214	0.0176	0.00625	0.0581	0.103	1,330
BH-51	10/27/2021	15	Х	_	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	1,750
BH-52	10/27/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,410
BH-53	10/27/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	960
BH-54	10/27/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	508
BH-55	10/27/2021	15	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	4,680
BH-56	10/27/2021	15	Х	_	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	2,450
BH-57	10/27/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	1,190
BH-58	10/27/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	4,190
BH-59	10/27/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,760
BH-60	10/27/2021	15	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,150
BH-61	10/27/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	4,660
BH-62	10/27/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	1,480
BH-63	10/27/2021	15	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,000
BH-64	10/27/2021	15	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	2,760

Table 1
Permian Water Solutions
Kaiser SWD
Phase I and II Confirmation Sampling
Lea County, New Mexico

		BEB Sample	Soil	Status		TPH ((mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Sample Date	Depth (ft)	In-Situ	Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH-65	10/27/2021	15	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	823
BH-66	10/27/2021	15	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	522
BH-67	10/27/2021	15	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	854
BH-68	10/28/2021	15	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,930
BH-69	10/28/2021	15	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	632
BH-70	10/28/2021	15	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	921
BH-71	10/28/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	0.00378	<0.00401	<0.00401	452
BH-72	10/28/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	692
BH-73	10/28/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	2,790
BH-74	10/28/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,620
BH-75	10/28/2021	15	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	982
BH-76	10/28/2021	15	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	1,190
BH-77	10/28/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,430
BH-78	10/28/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	426
BH-79	10/28/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	561
BH-80	10/28/2021	15	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	609
BH-81	10/28/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	871
BH-82	10/28/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	309
BH-83	10/28/2021	15	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	0.00427	<0.00400	0.00427	775
BH-84	10/28/2021	15	Х	-	<50.0	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	710
BH-85	10/28/2021	15	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	656
BH-86	10/28/2021	15	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	1,090
BH-87	10/28/2021	15	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,500
BH-88	10/28/2021	15	Х	_	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	2,390
BH-89	10/28/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	2,630
BH-90	10/28/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	107
BH-91	10/28/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,100
BH-92	5/6/2022	5	Х	-	<50.0	346	176	522	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	4,070
BH-93	5/6/2022	5	Х	-	<49.9	62.5	82.6	145	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	976
BH-94	5/6/2022	5	Х	-	<50.0	247	165	412	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,770
BH-95	5/6/2022	5	Х	-	<50.0	113	131	244	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	3,780
BH-96	5/6/2022	5	Х	-	<49.9	55.3	111	166	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	1,350

Table 1
Permian Water Solutions
Kaiser SWD
Phase I and II Confirmation Sampling
Lea County, New Mexico

		BEB Sample	Soil	Status		TPH ((mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Sample Date	Depth (ft)	In-Situ	Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH-97	5/6/2022	5	Х	-	<49.9	97.6	140	238	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	5,290
BH-98	5/6/2022	5	Х	-	<50.0	<50.0	102	102	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	2,090
BH-99	5/6/2022	5	Х	-	<50.0	<50.0	73.6	73.6	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	2,860
BH-100	5/6/2022	5	X	-	<49.9	<49.9	56.8	56.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	5,050
BH-101	5/6/2022	5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,460
BH-102	5/6/2022	5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	2,550
BH-103	5/6/2022	5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	7,750
BH-104	5/6/2022	5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,010
BH-105	5/6/2022	5	Х	-	<49.9	54.4	122	176	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	954
BH-106*	7/6/2022	6	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	21.0
BH-107	5/6/2022	5	Х	-	<50.0	169	169	338	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	1,530
BH-108*	7/6/2022	6	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	71.9
BH-109	5/6/2022	5	Х	-	<49.9	<49.9	86.4	86.4	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	946
BH-110*	8/18/2022	6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	388
BH-111	5/6/2022	5	Х	-	<49.9	<49.9	64.3	64.3	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	3,640
BH-112	5/6/2022	5	Х	-	362	<50.0	<50.0	362	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	374
BH-113	5/6/2022	5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	942
BH-114	7/6/2022	10	Х	-	<50.0	99.5	<50.0	99.5	<0.0202	<0.0202	<0.0202	<0.0404	<0.0404	266
BH-115	7/6/2022	10	Х	-	<49.9	86.1	<49.9	86.1	0.0439	<0.0201	<0.0201	<0.0402	0.0439	47.4
BH-116	7/6/2022	10	Х	-	<49.9	196	<49.9	196	0.0597	<0.0202	<0.0202	<0.0403	0.0597	76.8
BH-117	7/6/2022	10	Х	-	<50.0	644	98.9	743	0.0553	<0.0199	<0.0199	<0.0398	0.0553	114
BH-118*	7/26/2022	13	Х	-	<49.9	247	<49.9	247	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	263
BH-119*	7/26/2022	10	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	382
BH-120*	8/18/2022	8	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	578
BH-121	7/6/2022	8	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	5,280
BH-122	7/6/2022	8	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	1,280
BH-123	7/6/2022	8	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	201
BH-124*	8/18/2022	8	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	298
BH-125	7/6/2022	8	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	3,800
BH-126	7/7/2022	8	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	4,170
BH-127	7/7/2022	8	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	472
BH-128	7/7/2022	8	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	582

Table 1
Permian Water Solutions
Kaiser SWD
Phase I and II Confirmation Sampling
Lea County, New Mexico

		BEB Sample	Soil	Status		TPH ((mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Sample Date	Depth (ft)	In-Situ	Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH-129	7/7/2022	8	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	926
BH-130	7/7/2022	8	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	675
BH-131	7/7/2022	8	Х	-	<49.9	63.5	<49.9	63.5	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	85.5
BH-132*	8/18/2022	8	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	325
BH-133	7/6/2022	8	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	634
BH-134	7/7/2022	8	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	1,300
BH-135	7/7/2022	8	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	722
BH-136	7/7/2022	8	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	490
BH-137	7/7/2022	8	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	167
BH-138	7/7/2022	8	Х	-	<50.0	55.9	<50.0	55.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	512
BH-139	7/7/2022	8	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	1,390
BH-140	7/6/2022	8	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	970
BH-141	7/7/2022	8	Х	-	<49.9	61.0	<49.9	61.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	2,410
BH-142	7/12/2022	5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	167
BH-143	7/12/2022	5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	984
BH-144	7/12/2022	5	Х	-	<50.0	226	<50.0	226	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	501
BH-145	7/12/2022	5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	903
BH-146	7/12/2022	5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	751
BH-147	7/12/2022	6	Х	-	<50.0	478	59.0	537	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	22.7
BH-148	7/12/2022	6	Х	-	<49.9	138	52.3	190	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	6.69
BH-149	7/7/2022	6	Х	-	<49.9	64.6	<49.9	64.6	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	7.07
BH-150	7/6/2022	6	Х	-	<50.0	83.6	<50.0	83.6	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	10.9
BH-151	7/7/2022	6	Х	-	<50.0	126	<50.0	126	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	21.9
BH-152	7/12/2022	6	Х	-	<50.0	74.9	<50.0	74.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	16.0
BH-153	7/12/2022	6	Х	-	<49.9	117	<49.9	117	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	22.7
BH-154*	8/18/2022	8	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	88.9
BH-155	7/12/2022	6	Х	-	<50.0	111	<50.0	111	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	20.8
BH-156	7/12/2022	6	Х	-	<50.0	94.0	<50.0	94.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	16.3
BH-157	7/12/2022	6	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	34.4
BH-158*	7/26/2022	8	Х	_	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	99.8
BH-159*	8/18/2022	8	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,010
BH-160	7/26/2022	8	Х	-	<50.0	133	83.6	217	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	563

Table 1
Permian Water Solutions
Kaiser SWD
Phase I and II Confirmation Sampling
Lea County, New Mexico

Sample ID	Sample Date	BEB Sample		Status			(mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
•	'	Depth (ft)	In-Situ	Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH-161	7/26/2022	8	Х	-	<49.9	147	71.4	218	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	515
BH-162*	8/18/2022	8	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	892
BH-163	7/26/2022	8	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	107
BH-164*	8/18/2022	9	Х	-	<49.9	92.4	<49.9	92.4	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,680
BH-165	8/18/2022	8	Х	-	<49.9	64.6	<49.9	64.6	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	613
BH-166	8/18/2022	8	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	233
BH-167	8/18/2022	8	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	404
BH-168	8/18/2022	5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	354
BH-169	8/18/2022	5	Х	-	<50.0	80.5	<50.0	80.5	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	382
BH-170	8/18/2022	5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	826
BH-171	8/18/2022	5	Х	-	<50.0	75.0	<50.0	75.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	180
BH-172	8/18/2022	6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	253
BH-173	8/18/2022	6	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	329
BH-174	8/18/2022	6	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00196	<0.00196	<0.00196	<0.00393	<0.00393	131
BH-175	8/18/2022	4.5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	374
BH-176	8/18/2022	4.5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	554
BH-177	8/18/2022	4.5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	1,360
BH-178	8/18/2022	4.5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	632
BH-179	8/18/2022	4.5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,090
BH-180	8/18/2022	4.5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,540
BH-181	8/18/2022	4.5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	1,560

Table 1
Permian Water Solutions
Kaiser SWD
Phase I and II Confirmation Sampling
Lea County, New Mexico

0	0	BEB Sample	Soil	Status		TPH ((mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Sample Date	Depth (ft)	In-Situ	Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH-182	8/18/2022	4.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	806
BH-183	8/18/2022	4.5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	1,050
BH-184	8/18/2022	4.5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	898
BH-185*	9/19/2022	13	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	591
BH-186*	9/19/2022	13	Х	-	<50.0	84.3	<50.0	84.3	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	320
BH-187	8/18/2022	4.5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	816
BH-188	8/18/2022	4.5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,360
BH-189	8/18/2022	4.5	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	181
BH-190	8/19/2022	4.5	Х	-	<49.9	234	<49.9	234	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	686
BH-191*	9/19/2022	8	Х	-	<50.0	94.3	<50.0	94.3	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	267
BH-192*	9/19/2022	8	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	249
BH-193*	9/19/2022	8	Х	-	<50.0	64.0	<50.0	64.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	66.4
BH-194	9/19/2022	8	Х	-	<49.9	817	169	986	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	55.8
BH-195	9/19/2022	8	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	34.5
BH-196	9/19/2022	4.5	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	1,110
BH-197	9/19/2022	4.5	Х	-	<50.0	96.5	<50.0	96.5	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	1,710
BH-198	9/19/2022	4.5	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	4,900
BH-199	9/19/2022	4.5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	528
BH-200*	11/7/2022	10	Х	-	<50.0	74.9	<50.0	74.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	2,280
BH-201*	11/7/2022	10	Х	-	<50.0	74.3	<50.0	74.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1300
BH-202	9/19/2022	4.5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,130
BH-203	9/19/2022	4.5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	330
BH-204*	11/7/2022	10	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	2,010
BH-205*	11/7/2022	10	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,480
BH-206*	11/7/2022	10	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	2,290
BH-207	9/19/2022	4.5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	4,000
BH-208	11/7/2022	10	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	6,190
BH-209	11/7/2022	10	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	4,470
BH-210*	12/14/2022	11	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	699
BH-211	11/7/2022	10	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,230
BH-212	11/7/2022	10	Х	-	Α	228	<50.0	228	<0.00199	<0.00199	<0.00199	0.0395	0.0395	2,970
SW-1*	12/23/2021	0-4	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	287

Table 1
Permian Water Solutions
Kaiser SWD
Phase I and II Confirmation Sampling
Lea County, New Mexico

Sample ID	Sample Date	BEB Sample	Soil	Status		TPH	(mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
•		Depth (ft)	In-Situ	Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SW-2	10/25/2021	0-6	Х	-	<49.9	74.3	<49.9	74.3	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	43.4
SW-3*	12/23/2021	0-4	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	341
SW-4	10/25/2021	0-6	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,060
SW-5	10/25/2021	0-6	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	2,250
SW-6*	12/23/2021	0-4	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	4,800
SW-7*	12/23/2021	0-4	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	2,400
SW-8*	12/23/2021	0-4	-	Х	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	9,820
SW-9*	12/23/2021	0-4	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	380
SW-10*	12/23/2021	0-4	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	354
SW-11*	12/23/2021	0-4	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	348
SW-12	10/26/2021	10	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,080
SW-13	10/26/2021	15	Х	-	<50.0	96.1	<50.0	96.1	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,840
SW-14	10/26/2021	15	Х	-	<49.8	56.3	<49.8	56.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	185
SW-15	10/26/2021	15	Х	_	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	209
SW-16	10/26/2021	15	Х	_	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,170
SW-17	10/26/2021	15	Х	-	<50.0	55.1	<50.0	55.1	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	2,270
SW-18	10/26/2021	15	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	826
SW-19	10/26/2021	15	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	1,000
SW-20	10/26/2021	15	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	1,150
SW-21	10/26/2021	15	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	5,770
SW-22	10/26/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	9,240
SW-23	10/26/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,070
SW-24	10/26/2021	15	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,240
SW-25	10/26/2021	15	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	5,920
SW-26	10/26/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	447
SW-27	10/26/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	0.00206	0.00205	<0.00201	<0.00402	0.00411	9,970

Table 1
Permian Water Solutions
Kaiser SWD
Phase I and II Confirmation Sampling
Lea County, New Mexico

Sample ID	mple ID Sample Date BEB Sample Soil Status		Status		TPH	(mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride	
•		Depth (ft)	In-Situ	Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SW-28	10/26/2021	15	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	3,280
SW-29	10/26/2021	15	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	416
SW-30 (Ramp)	10/28/2021	6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	169
SW-31 (Ramp)	10/28/2021	4	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	109
SW-32 (Ramp)	10/28/2021	6	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	582
SW-33 (Ramp)	10/28/2021	8	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	831
SW-34*	7/6/2022	0-6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	20.4
SW-35*	7/6/2022	0-6	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	244
SW-36*	7/6/2022	0-6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	56.8
SW-37*	7/6/2022	0-6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	21.7
SW-38	8/18/2022	4.5-13	Х	-	<49.9	151	<49.9	151	<0.0404	<0.0404	<0.0404	<0.0808	<0.0808	448
SW-39	7/29/2022	0-13	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	111
SW-40	7/29/2022	0-13	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	52.3
SW-41	8/18/2022	6-13	Х	-	<49.9	<49.9	<49.9	<49.9	<0.0403	<0.0403	<0.0403	<0.0806	<0.0806	707
SW-42	8/18/2022	4.5-8	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	107
SW-43*	8/18/2022	6-8	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	951
SW-44	8/18/2022	4.5-8	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	955
SW-45	8/18/2022	4.5-8	-	Х	79.7	1,030	<50.0	1,110	<0.00201	<0.00201	0.0108	0.0460	0.0568	679
SW-46 ★	8/18/2022	0-5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	995
SW-47	8/18/2022	0-5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	558
SW-48	8/18/2022	6-8	Х	-	<50.0	117	<50.0	117	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	70.5
SW-49	8/18/2022	4.5-6	-	Х	<50.0	264	<50.0	264	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	975

Table 1
Permian Water Solutions
Kaiser SWD
Phase I and II Confirmation Sampling
Lea County, New Mexico

Commis ID			BEB Sample	Soil	Status		TPH	(mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID		Sample Date	Depth (ft)	In-Situ	Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SW-50*		7/26/2022	0-6	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	52.0
SW-51*		7/26/2022	0-6	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	201
SW-52		7/12/2022	0-6	Х	-	<49.8	81.4	<49.8	81.4	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	386
SW-53	*	8/18/2022	0-8	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,180
SW-54		8/18/2022	0-4.5	-	Х	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	717
SW-55		8/18/2022	4.5-8	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00197	<0.00197	<0.00197	<0.00394	<0.00394	1,730
SW-56	*	8/18/2022	0-4.5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,120
SW-57		8/18/2022	6-8	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	65.5
SW-58		8/18/2022	6-8	-	Х	<49.8	7,350	1,620	8,970	<0.0100	<0.0100	<0.0100	<0.0200	<0.0200	202
SW-59		8/18/2022	6-8	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	40.5
SW-60	*	8/18/2022	0-13	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	2,390
SW-61		8/18/2022	8-13	Х	-	<50.0	76.1	<50.0	76.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,730
SW-62*		9/19/2022	8-13	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	330
SW-63		8/18/2022	8-13	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	561
SW-64		8/18/2022	8-10	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	481
SW-65		8/18/2022	8-10	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	765
SW-66		8/18/2022	8-10	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	275
SW-67		8/18/2022	8-10	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	215
SW-68	*	8/18/2022	0-6	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	2,210
SW-69	*	8/18/2022	0-6	Х	-	<50.0	1,890	<50.0	1,890	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	6,380
SW-70	*	8/18/2022	0-4.5	Х	-	<49.8	1,770	<49.8	1,770	<0.0400	<0.0400	<0.0400	<0.0800	<0.0800	352
SW-71	*	8/18/2022	0-4.5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	1,460
SW-72*	*	9/19/2022	0-8	Х	-	<49.9	348	87.6	436	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	70.1
SW-73		9/19/2022	6-13	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	394
SW-74		9/19/2022	8-13	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,800
SW-75*	*	12/14/2022	4-10	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,390
SW-76*	*	12/14/2022	0-4.5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	931
SW-77	*	9/20/2022	0-4.5	Х	-	<49.9	81.7	<49.9	81.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	3,710
SW-78*		11/7/2022	4-10	-	Х	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	15,800
SW-79*	*	12/14/2022	0-4	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	613
SW-80		11/7/2022	4.5-10	Х	-	<50.0	263	<50.0	263	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	8,690
SW-81		11/7/2022	4.5-10	Х	-	<49.9	192	<49.9	192	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	8,120
							•								

Table 1 Permian Water Solutions Kaiser SWD Phase I and II Confirmation Sampling Lea County, New Mexico

Sample ID		Sample Date	BEB Sample	Soil	Status		TPH	(mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID		Sample Date	Depth (ft)	In-Situ	Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SW-82		11/7/2022	4.5-10	Х	-	<49.8	216	<49.8	216	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	9,100
SW-83*	*	12/14/2022	0-4	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,070
DS-1		10/25/2021	2	-	Х	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	1,310
DS-2	\perp	10/25/2021	3	-	Х	1290	1,290	1290	1,290	<0.00200	<0.00200	<0.00200	<0.00401	<0.00399	7,010
DS-3	\perp	10/25/2021	2	-	Х	<49.9	1,980	<250	1,980	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	7,820
H-1		9/19/2022	0-2	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	72.0
H-2		9/19/2022	0-2	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	20.1
H-3	I	9/19/2022	0-2	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	57.3
H-4	I	9/19/2022	0-2	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	27.5
H-5	\perp	9/19/2022	0-2	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	17.0
H-6		9/19/2022	0-2	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	23.1
H-7	I	9/19/2022	0-2	Х	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	26.7
H-8	I	11/7/2022	5	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	90
H-9		11/7/2022	5	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	672

Exceeds NMOCD RRALs for top 4.0'

^{*} Additional entries for samples were removed from the analysis table per the NMOCD request. However, all laboratory data is included in Appendix C.

^{*} Samples for the areas where a variance to leave the remaining concentrations in place was approved by the NMOCD and NMSLO.



Photographic Documentation



Photo: 1

Description:

Overview of the surface of the 15'-deep floor of the central portion of the excavation for Phase I.

Orientation:

Looking southeast.



Photo: 2

Description:

View of the surface of the 15'-deep floor of the central portion of the excavation for Phase I.

Orientation:

Looking west.



1



Photo: 3

Description:

View of the white flags used to assist with sample distribution on the central portion of the excavation for Phase I.

Orientation:

Looking south.



Photo: 4

Description:

Overview of surface of the extended excavations corresponding to sample SW-1, as part of the Phase I excavations.

Orientation:

Looking south.



2



Photo: 5

Description:

View of the surface of the extended excavations corresponding to sample SW-3, as part of the Phase I excavations.

Orientation:

Looking southeast.



Photo: 6

Description:

View of the southern floor of the excavation as part of Phase 1.5.

Orientation:

Looking north.



3



Photo: 7

Description:

View of the central portion of the excavation for Phase 1.5.

Orientation:

Looking west.



Photo: 8

Description:

View of the northern portion of the excavation for Phase 1.5, as well as the backfill (red, left) material used for Phase I.

Orientation:

Looking south.



/



Photo: 9

Description:

View of the excavation area of Phase II observed just West of the Phase 1.5 area.

Orientation:

Looking north.



Photo: 10

Description:

View of the central portion of Phase II annexed to Phase 1.5.

Orientation:

Looking northeast.



5



Photo: 11

Description:

View of the excavated area corresponding to sample BH-165, located in the central portion of the Phase II area.

Orientation:

Looking west.



Photo: 12

Description:

View of the southern portion of the Phase II area.

Orientation:

Looking south.



6



Photo: 13

Description:

View of the southern portion of the Phase II area, and backfilled areas in the background.

Orientation:

Looking northwest.



Photo: 14

Description:

View of the southern portion of the Phase II area, the final area to be backfilled.

Orientation:

Looking north.



7



Appendix A

C-141 Forms and Variance Approval Emails

INCIDENT/SPILL DETAILS

INCIDENT ID: nPAC0531137785

No. ON EXCEL "INCIDENTS & SPILLS SEARCH - NMOCD — SEC 13-T21S-R34E LEA COUNTY":

<u>12</u>

	Permitting
JU	remuni

- Home
- Searches
- Incidents
- Incident Details

NPAC0531137785 2005 MINOR A SWS @ 30-025-02538

1	General	Incident	Information	

Site Name:

Well: [30-025-02538] KAISER STATE SWD #009

Facility:

Operator: [220351] P & W RESOURCES LLC

Status: Closure Not Approved
Type: Produced Water Release

District: Hobbs Severity: Minor Surface Owner: County: Lea (25)

Incident Location: F-13-21S-34E 1980 FNL 1980 FWL

Lat/Long: 32.4808578,-103.4256592 NAD83

Directions:

Notes

Source of Referral: Industry Rep
Resulted In Fire:
Endangered Public Health:
Fresh Water Contamination:
Action / Escalation: General Information
Will or Has Reached Watercourse:
Property Or Environmental Damage:

0 -	-4-	-4	D .	4 - 3	
Co	nτa	CI	De	etai	IIS

Contact Name:

Contact Title:

Event Dates

Date of Discovery: 09/11/2005 Extension Date: 11/15/2018 Initial C-141 Received:

Characterization Report Received:

Remediation Plan Received:

Closure Report Received:

OCD Notified of Release:

Cancelled Date:

Characterization Report Approved:

Remediation Plan Approved:

Remediation Due:

Closure Report Approved:

Compositional Analysis of Vented and/or Flared Natural Gas

No Compositional Analysis Found

Incidents Materials

Cause	Source	Material		Vol	lume		Units
Cause	Source	Material	Unk.	Released	Recovered	Lost	Offics
Equipment Failure	Pipeline (Any)	Produced Water		10	9	1	BBL

Incident Events

Date	Detail	
11/07/2005	C-141: "Line broke. Vacuumed up 9 bbls water. 150' of pasture land. Vacuumed up 9 bbls	

Orders No Orders Found

Quick Links

- General Incident Information
- <u>Materials</u>
- Events
- Orders

Associated Images

- Incident Files (0)
- Well Files (38)

New Searches

- New Facility Search
- New Incident Search ♥
- New Operator Search ♥
- New Pit Search ♥
- New Spill Search
- New Tank Search
- New Well Search ♥

New Mexico Energy, Minerals and Natural Resources Department | Copyright 2012 1220 South St. Francis Drive | Santa Fe, NM 87505 | P: (505) 476-3200 | F: (505) 476-3220

Page 6 Oil Conservation Division

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

Photographs of the remediated site prior to backfr must be notified 2 days prior to liner inspection)	ill or photos of the liner integrity if applicable (Note: appropriate OCD District office
■ Laboratory analyses of final sampling (Note: appr	ropriate ODC District office must be notified 2 days prior to final sampling)
✓ Description of remediation activities	
and regulations all operators are required to report and/omay endanger public health or the environment. The acshould their operations have failed to adequately invest human health or the environment. In addition, OCD accompliance with any other federal, state, or local laws a restore, reclaim, and re-vegetate the impacted surface a	rand complete to the best of my knowledge and understand that pursuant to OCD rules or file certain release notifications and perform corrective actions for releases which ecceptance of a C-141 report by the OCD does not relieve the operator of liability ligate and remediate contamination that pose a threat to groundwater, surface water, ecceptance of a C-141 report does not relieve the operator of responsibility for land/or regulations. The responsible party acknowledges they must substantially rea to the conditions that existed prior to the release or their final land use in lition to the OCD when reclamation and re-vegetation are complete. Title: Project Manager Date:
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the response remediate contamination that poses a threat to groundward party of compliance with any other federal, state, or local	onsible party of liability should their operations have failed to adequately investigate and ater, surface water, human health, or the environment nor does not relieve the responsible cal laws and/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:
_	

Form C-141

Revised August 8, 2011

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

			Rele	ease Notific	ation	and Co	rrective A	ction		
						OPERA	ΓOR		X Initia	al Report
	mpany 🏲	yote Water	System	ıs, LLC			y Burton Ope	eration	is Mana	ger for NM
Address		Illinois STI	E 950 N	Iidland TX		Telephone N	10		<u>8~4917</u>	
Facility Nar	ne				I	Facility Typ	e Production	n Wat	<u>er</u>	
Surface Ow	ner Pyote	e Water Sy	stems,L	LC Mineral O	wner		Pyote		API No	. 30~025~02538
				LOCA	TION	OF REI	LEASE			
Unit Letter	Section	Township	Range	Feet from the	North/S	South Line	Feet from the	East/W	Vest Line	County
	13		2.4	10 ft	N/S	3				LEA COUNTY
- F	13	25	1 <u>34</u>	titude 32.4808	355153	34055aitud	le103.425	63076	5566	
			La			_ 0		<u>,030</u> 70	13300	
Type of Rele	ase 20 bl	ols product	tion wa		UKE	OF REL		1e	Volume R	Recovered 20 bbls
Source of Re			1011 wa	ICI			lour of Occurrence			Hour of Discovery 1/14/15
Was Immedia						If YES, To				
			Yes	No Not Re	quired			Jerry	Burton N	M OM
By Whom?	•					Date and F				
Was a Water	course Read	ched?	Yes 🖸	No No		If YES, Vo	lume Impacting th	he Wate	rcourse.	
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.	*						
none										
Describe Cau	ise of Probl	em and Reme	dial Actio	n Taken.*		harrana inat	mustad to do on	on ole 1a	ad Itian	social as well at the gion in
ticket area		the sumps~	/ ne rane	ea to suck it out	wnen ti	ney are inst	ructea to ao on	each ic	baa. It is p	osted as well, at the sign in
iickei area a	a180									
D '1 4	A CC . 1	1.61		* The clean t	110 01100	ON.				
remediation	a Affected n took pla	ce on 1/16/	15, clear	ned up the area v	with ba	ckhoe, broi	ight in caliche a	and the	remedita	tion is done. Load lines 3&4
been shut d	lown for a	ıbout 4 mont	hs, the a	ccess water is fr	om all t	he rain bac	k n September a	and Oc	tober,thar	n the snow we have had since
than. Has n	ot been d	ry enough to	work on	those lines. DU	JE TO N	MOTHER NA	ATURE we have	e had a	company	go out several times to do the
for loads li	1e 3 & 4	information gi	ven above	is true and compl	ete to th	e hest of my	knowledge and u	nderstan	d that nurs	suant to NMOCD rules and
										eases which may endanger
•	•	-	•				•			eve the operator of liability
										, surface water, human health
		addition, NMC ws and/or regu		otance of a C-141 i	report do	es not reliev	e the operator of r	responsi	bility for co	ompliance with any other
rederar, state,	, or local la	ws and/or regu	nations.				OIL CONS	SERV	ATION	DIVISION
	i P	,					<u>OIL COIN</u>		111011	<u>DIVIDIOI</u>
Signature:	/emytru	The _					- m (/		000	
Printed Name	Printed Name: Jerry Burton Approved by Environmental Specialist:									
Title: Operations Manager for NM						Approval Dat	e : 1/29/15	I	Expiration 1	Date: 3/29/15
E-mail Address: audra@pyotewatersystems.com						n 11.1	`			
						Conditions of	Approval:			Attached
Date: 1~23~	15			: 432~448~49	917	Site sam	ples required.	. Delir	niate	1RP-3512
Attach Addi	tional She	ets If Necess	ary				ediate as per l			
						guides.	23 POT			294873
						•	Snol C 141 kg	, 2		nTO1502927174
						Subillit l	inal C-141 by	y J		

Received by OCD: 8/28/2023 2:02:22 PM tate of New Mexico
Page 6 Oil Conservation Division

Closure

Closure Report Attachment Checklist: Ed	ach of the following items must be included in the closure report.
A scaled site and sampling diagram as de	escribed in 19.15.29.11 NMAC
Photographs of the remediated site prior must be notified 2 days prior to liner inspection	to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office ion)
Laboratory analyses of final sampling (N	Note: appropriate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to re may endanger public health or the environmer should their operations have failed to adequate human health or the environment. In addition compliance with any other federal, state, or lo restore, reclaim, and re-vegetate the impacted accordance with 19.15.29.13 NMAC including Printed Name: Dusty McInturff	ove is true and complete to the best of my knowledge and understand that pursuant to OCD rules aport and/or file certain release notifications and perform corrective actions for releases which into the acceptance of a C-141 report by the OCD does not relieve the operator of liability ely investigate and remediate contamination that pose a threat to groundwater, surface water, OCD acceptance of a C-141 report does not relieve the operator of responsibility for cal laws and/or regulations. The responsible party acknowledges they must substantially surface area to the conditions that existed prior to the release or their final land use in g notification to the OCD when reclamation and re-vegetation are complete. Title: Project Manager Date: 5/5/23 Telephone: (432) 634-7865
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve remediate contamination that poses a threat to party of compliance with any other federal, st	e the responsible party of liability should their operations have failed to adequately investigate an groundwater, surface water, human health, or the environment nor does not relieve the responsible ate, or local laws and/or regulations.
Closure Approved by:	Date:
Direct Name	Title

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

pKJ1512042374 nKJ1512041707

1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505 Release Notification and Corrective Action **OPERATOR** xxx Initial Report Final Report Name of Company PYOTE WATER SYSTEMS, Jerry Burton NM Operations Manager Contact Address 400 W. Illinois Ste 900 Telephone No. 432.448.4917 or 432.448.5323(Audra) Facility Name Kaiser SWD Facility Type SWD-production water DIDPOSAL API No. 30-025-02538 Surface Owner Pyote Water Systems, LLC Mineral Owner Pvote Water Systems, LLC LOCATION OF RELEASE Feet from the County Lea COUNTY Section Township Feet from the East/West Line Unit Letter Range North/South Line 125 ft E/W \mathbf{F} 21 13 Latitude Longitude NATURE OF RELEASE Volume Recovered 100 BBLS Type of Release; production water Volume of Release 100BBLS Source of Release Date and Hour of Occurrence Date and Hour of Discovery 4/24/15 2:35 am Vac truck (unknown due to no camera's) hit load line 3 4/24/2015 Was Immediate Notice Given X Yes No Not Required If YES, To Whom? Jerry Burton By Whom? Unknown driver (575)-390-3836 Date and HOUR; 4/24/2015 2:35 am Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. Yes *** No*** RECEIVED If a Watercourse was Impacted, Describe Fully.* By OCD District 1 at 11:10 am, Apr 30, 2015 Describe Cause of Problem and Remedial Action Taken.* unknown truck driver hit load line 3 caused a spill. We had an anonymous driver call us at 2:35 am (575)390-3836 in the morning, upon his arrival he noticed a large amount of water on the pad at the location, than noticed line 3 was had been hit. He did not see this happen at the Kaiser Describe Area Affected and Cleanup Action Taken.* Area affected was the pad only at the location. Jerry and his pumper Kenny repaired damages themselves, remedial work done by L&J services (backhoe) 2 vac trucks one from Big Buck Services and one from BT Services I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations OIL CONSERVATION DIVISION Printed Name: Jerry Burton Approved by Environmental Specialist: Title: NM Operations Manager for Pyote Water systems, LLC Expiration Date: 07/30/2015 **Approval Date:** 04/30/2015 jerry@pyotewatersystems.com or audra@pyotewatersystems.com E-mail Address: Conditions of Approval: Attached 294873 4-26-2015 Site samples required. Delineate and remediate 1RP 3621 Date: 4/26/15 Phone:432.448.4917 as per MNOCD guides. Geotag photographs of Attach Additional Sheets If Necessary remediation required.

Respired py OCD: 8/28/2023 2:02:22 PM ate of New Mexico
Page 6 Oil Conservation Division

	Page 57 of 1449
Incident ID	nKJ1512041707
District RP	1RP-3621
Facility ID	
Application ID	

Closure

Closure Report Attachment Checklist: Each of to	he following items must be included in the closure report.
A scaled site and sampling diagram as described	d in 19.15.29.11 NMAC
Photographs of the remediated site prior to back must be notified 2 days prior to liner inspection)	kfill or photos of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: ap	propriate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report an may endanger public health or the environment. The should their operations have failed to adequately invehuman health or the environment. In addition, OCD compliance with any other federal, state, or local law restore, reclaim, and re-vegetate the impacted surface accordance with 19.15.29.13 NMAC including notification.	the and complete to the best of my knowledge and understand that pursuant to OCD rules ad/or file certain release notifications and perform corrective actions for releases which acceptance of a C-141 report by the OCD does not relieve the operator of liability estigate and remediate contamination that pose a threat to groundwater, surface water, acceptance of a C-141 report does not relieve the operator of responsibility for and/or regulations. The responsible party acknowledges they must substantially area to the conditions that existed prior to the release or their final land use in cation to the OCD when reclamation and re-vegetation are complete. Title: Project Manager
Signature: 5 Fred Aff	Date: 5/5/23
email: dmcinturff@dufrane.com	Telephone: (432) 634-7865
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the res remediate contamination that poses a threat to ground party of compliance with any other federal, state, or	sponsible party of liability should their operations have failed to adequately investigate and lwater, surface water, human health, or the environment nor does not relieve the responsible local laws and/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

Received by OCD: 8/28/2023 2:02:22 PM

Name of Company Pyote Water Systems, LLC

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mex

RECEIVED Energy Minerals and Natura By JKeyes at 7:43 am, Jun 09, 2016

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

nJXK1616127644 pJXK1616127747

Initial Report

Page 58 of 1449

Final Report

Release Notification and Corrective Action

OPERATOR

Contact Jerry Burton

Address	400 W Illino	ois Ste 900 N	IIDLAND	TX 79701		Telephone No. 432-448-4917				
Facility Name Kaiser Swd						Facility Type production Water				
Surface Owner STATE Mineral Owner						STATE		API No	. 30-025-02538	
						N OF DE	LEACE	<u>.</u>		
Unit Letter	Section	Township	Range	Feet from the		N OF REI	Feet from the	East/West Line	County	
F	13	21s		reet nom the	North	/ South Line	reet from the	Last/ West Line	LEA COUNTY	
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			Lat	itude_32.4808	3578-	Longitud	le_ 103.42565	92 nad 83		
				NAT	URE	OF REL	EASE			
Type of Rele			tanks while	e driver was unloa	ading		Release 1050 BE			
Source of Re		luction water						ce 5-17-16 Date and	Hour of Discovery 4 PM	
Was Immedi	ate Notice C		Vas. \square	No Not Re		If YES, To				
			i es 📋	NO LI NOUR	equirea			BURTON via telepl	none by driver	
By Whom? Was a Water							Hour 5/17/16 4PI			
was a water	course Reac		Yes 🗌	No			olume Impacting t	ine watercourse.		
IC IV.	т		`			1050 BL	S			
If a Watercon	ırse was Im	pacted, Descri	be Fully.*							
fire melte	d parts of	f the liner.w	ater got	under the lin	er					
			J							
Dosariba Car	as of Proble	em and Remed	dial Astion	Talzan *						
Describe Cat	186 01 1 10010	ciii aiiu Keiiie	iiai Action	Taken.						
lightining h	nit load ta	nks and bu	rned 6 5	00 bbl tanks	less t	han 2 bbls	breeched con	tainment. calle	d vac truck out to empty	
containme	nt after t	he fire dept	t put out	the fire .						
Describe Are	a Affected a	and Cleanup A	Action Take	en.*						
		-								
load side	containm	ent have cl	ean up o	crew cleaning	j up a	nd disposir	ng of old tanks	and cat walk t	o sundown	
I hereby cert	I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and							suant to NMOCD rules and		
regulations a	ll operators	are required to	report an	d/or file certain r	elease 1	notifications a	nd perform correc	ctive actions for rele	eases which may endanger	
									eve the operator of liability	
									s, surface water, human health ompliance with any other	
		ws and/or regu		ance of a C-141	тероп	does not renev	e the operator of	responsibility for co	omphance with any other	
isasiai, siate	, 21 10 001 101	01 1084					OIL CON	SERVATION	DIVISION	
	Taller	Rustala					OIL COIN		21,101011	
Signature:	Jerry	Burton						Ann.	X lhyer	
Printed Nam	e Jerry F	Burton				Approved by	Environmental S	pecialist:	ruje	
Timod I (dill	Jany L						06/00/2016		09/00/2017	
Title: NM	Operation	ıs Mgr				Approval Da	te: 06/09/2016	Expiration	Date: 08/09/2016	
E-mail Addr	ess: ierrv	@pyotewat	tersvster	ms.com		Conditions of	f Approval·			
		<u> </u>				Discrete samples only. Delineate and remediate Attached				
Date: 5-18-				4324484917]	per NMOCD g	guidelines.		1RP 4305	
* Attach Addi	tional Shee	ets If Necess	arv							

Received by OCD: 8/28/2023 2:02:22 PM atte of New Mexico
Page 6 Oil Conservation Division

Closure

Closure Report Attachment Checklist: Each of	the following items must be included in the closure report.
A scaled site and sampling diagram as describe	ed in 19.15.29.11 NMAC
Photographs of the remediated site prior to bac must be notified 2 days prior to liner inspection)	ckfill or photos of the liner integrity if applicable (Note: appropriate OCD District office
✓ Laboratory analyses of final sampling (Note: a	ppropriate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
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00	
email:dmcinturff@dufrane.com	Telephone:(432) 634-7865
OCD Only	
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the re remediate contamination that poses a threat to groun party of compliance with any other federal, state, or	esponsible party of liability should their operations have failed to adequately investigate a adwater, surface water, human health, or the environment nor does not relieve the responsible local laws and/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

District I
1625 N: French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 Form C-141 Revised August 8, 2011

nKL1632848695 pKL1632848917

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505 Release Notification and Corrective Action **OPERATOR** ☐ Initial Report Final Report Name of Company: Cambrian Management, LTD. Contact: Mike Anthony Telephone No. 432-631-4398 Address: 415 W. Wall St. Suite 900 Facility Name: Kaiser SWD #9 Facility Type: SWD Mineral Owner: State API No. 30-025-02538 Surface Owner: State LOCATION OF RELEASE Unit Letter Section Feet from the North/South Line Feet from the East/West Line County Township Range **21S** 34E 1980 North 1980 West Lea Latitude 32.4808578 Longitude -103.4256592 NATURE OF RELEASE Volume of Release: Unknown Volume Recovered: 0 Type of Release: Produced Water Date and Hour of Occurrence: Source of Release: Frac tanks Date and Hour of Discovery: Was Immediate Notice Given? If YES, To Whom? ☐ Yes ☐ No ☒ Not Required By Whom? Date and Hour: Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* Due to a lightning strike on the tank battery fluid was transferred into temporary frac tanks to continue operations during reconstruction. The frac tanks leaked resulting in the release of an unknown quantity of fluid. The frac tanks have been removed from the location. Describe Area Affected and Cleanup Action Taken.* The frac tanks were set on the north side of the affected battery. The fluid from the leak flowed south around the battery berm and continued southsouthwest into the pasture. Soil samples will be taken in preparation for a remediation work plan. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Mile anthony Signature: trusten Lynch Approved by Environmental Specialist: Printed Name: Mike Anthony Approval Date: 11/23/2016 Expiration Date: 01/23/2017 Title: Field Operations Superintendent Conditions of Approval: E-mail Address: manthony@cambrianmgmt.com Attached Please see attached Directive 1RP 4525 Date: 11/15/16 Phone: 432-631-4398

* Attach Additional Sheets If Necessary

Received by 10CD: 8/28/2023 2:02:22 PM State of New Mexico
Page 6 Oil Conservation Division

	Page 61 of 1449
Incident ID	nKL1632848695
District RP	1RP-4525
Facility ID	
Application ID	

Closure

Closure Report Attachment Checklist: Each of	the following items must be included in the closure report.
A scaled site and sampling diagram as describe	ed in 19.15.29.11 NMAC
Photographs of the remediated site prior to bar must be notified 2 days prior to liner inspection)	ckfill or photos of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: a	ppropriate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report a may endanger public health or the environment. The should their operations have failed to adequately invariant health or the environment. In addition, OCE compliance with any other federal, state, or local law restore, reclaim, and re-vegetate the impacted surface accordance with 19.15.29.13 NMAC including noting	true and complete to the best of my knowledge and understand that pursuant to OCD rules and/or file certain release notifications and perform corrective actions for releases which the acceptance of a C-141 report by the OCD does not relieve the operator of liability exestigate and remediate contamination that pose a threat to groundwater, surface water, of acceptance of a C-141 report does not relieve the operator of responsibility for the sand/or regulations. The responsible party acknowledges they must substantially the area to the conditions that existed prior to the release or their final land use in fication to the OCD when reclamation and re-vegetation are complete. Title: Project Manager Date:
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the re remediate contamination that poses a threat to groun party of compliance with any other federal, state, or	esponsible party of liability should their operations have failed to adequately investigate and adwater, surface water, human health, or the environment nor does not relieve the responsible responsible to a laws and/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

pOY1730059151

nOY1730058924

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Reid	ease Notifica				ction		al Danort		Final Dancet	
Name of Co	mpany Ca	ambrian Man	agement	. Ltd.		OPERATOR							
		2, Midland, T			_	Telephone No. (432)631-4398							
						Facility Type Salt Water Disposal							
Surface Ow	Surface Owner State Mineral Owner								API No	. 30-025-02	2538		
				LOCA'	TION	OFRE	LEASE						
						South Line	Feet from the	East/V	Vest Line	County			
F 13 21S 34E									Lea				
			Latitud	le 32.48008578	Lo	ngitude_	-103.4256592	NAD	83				
				NATI	URE	OF REI	EASE						
Type of Rele	ase _	ed Water & Cr	1. 01	11222			of Release		Volume I	Recovered			
	Produc	ed water & Cr	ude Oil			50 bbls			0 bbls				
Source of Re	lease Unkno	own				Unknown	Hour of Occurrence	ce		Hour of Disc 017, 12:35 PI			
Was Immedi	ate Notice (Yes 🗸	No □ Not Rec	quired	N/A	o Whom?						
By Whom?	N/A					Date and	Hour N/A						
Was a Water	course Read	TEC 20 FOC	Yes 🗸	7 No		If YES, V	olume Impacting	the Wate	ercourse.				
If a Waterco	irse was Im	pacted, Descr		N. V.		RECEIVED							
							By Olivia	Yu a	<i>t</i> 4·17	nm. Oc	t 27	2017	
		em and Reme											
				ned and is curre									
		and Cleanup				Marie Cal	ALC DOMESTIC	10.54.00		OM/D I			
affected a	rea inside	the berms	measu	ry and seconda red approximate guidelines.									
regulations a public health should their or the enviro	Il operators or the envi operations h nment. In a	are required to ronment. The nave failed to	o report a acceptan adequately OCD accep	e is true and comple nd/or file certain re ce of a C-141 report y investigate and re ptance of a C-141 re	lease not t by the mediate	otifications NMOCD contamina	and perform correct marked as "Final R tion that pose a thr	ctive act Report" d reat to gr	ions for rel loes not rel round wate	eases which ieve the oper r, surface wa	may end ator of l ter, hum	langer iability aan health	
Denne Jones						OIL CONSERVATION DIVISION							
Printed Name: Todd Roberson (as agent of Cambrian Mgmt.)						Approved b	y Environmental S	Specialis	t:	1			
Title: Owne						Approval D	ate: 10/27/20	017	Expiration	Date:			
		trinityoilfiel	dservice	es.com		Conditions	of Approval:			Attached	[a]		
Date: 10/23	3/2017		Dhora	: (575) 631-312	9	see attached directive							
		ets If Necess		. (0/0) 00/012						1			

1RP-4855

Received by OCD: 8/28/2023 2:02:22 PM tate of New Mexico
Page 6 Oil Conservation Division

	Page 63 of 1449
Incident ID	nOY1730058924
District RP	1RP-4855
Facility ID	
Application ID	

Closure

Closure Report Attachment Checklist: Each of	the following items must be included in the closure report.
A scaled site and sampling diagram as describe	
Photographs of the remediated site prior to bac must be notified 2 days prior to liner inspection)	ckfill or photos of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: a	ppropriate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
may endanger public health or the environment. The should their operations have failed to adequately invi- human health or the environment. In addition, OCD compliance with any other federal, state, or local law restore, reclaim, and re-vegetate the impacted surface	and/or file certain release notifications and perform corrective actions for releases which he acceptance of a C-141 report by the OCD does not relieve the operator of liability restigate and remediate contamination that pose a threat to groundwater, surface water, acceptance of a C-141 report does not relieve the operator of responsibility for a sund/or regulations. The responsible party acknowledges they must substantially reare to the conditions that existed prior to the release or their final land use in acceptance of the occupance occupance of the occupance occupance occup
email: dmcinturff@dufrane.com	Telephone: (432) 634-7865
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the re remediate contamination that poses a threat to groun- party of compliance with any other federal, state, or	esponsible party of liability should their operations have failed to adequately investigate are dwater, surface water, human health, or the environment nor does not relieve the responsiblocal laws and/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District III
1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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			Rele	ease Notific	ation	and C	or	rective A	ction					
							OPERATOR							Final Report
							Contact Mike Anthony							
								. (432)631-43 Salt Water Di						
							урс	Oalt Water Di	эрозаг	T				
Surface Ow	ner State			Mineral C	wner S	State				API	No.	30-025-0	2538	
						OF RI		EASE						
Unit Letter	Section	Township	Range	Feet from the	North/	orth/South Line Feet from the Ea			East/V	Vest Lin				
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			Latitud	le32.4800857	'8_ Lo	ongitude_	-10	3.4256592	NAD	83				
				NAT	URE	OF REI								
Type of Relea	ase Produc	ed Water				Volume 20 bbls	6			10 bb	ls	ecovered		
Source of Re	lease Seal o	on pump				Date and Unknow		ır of Occurrenc	e			lour of Dis 3, 10:00 AM		
Was Immedia	ate Notice (Yes ✓	No Not Re	equired	If YES,	Го W	/hom?						
By Whom?	N/A					Date and	Hou	ır						
Was a Water						If YES, Volume Impacting the Watercourse.								
			Yes 🔽] No		N/A DECEIVED								
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.	k		RECEIVED								
Describe Cau	ise of Probl	em and Reme	dial Actio	n Taken.*			By	y Olivia	Yu a	t 9:3	4	am, Fe	eb 0	7, 2018
The seal of	n a pump	o failed. A v	acuum t	ruck was utilize	ed to re	ecover fre	e-st	tanding liquid	d. The	seal w	/as	repaired	during	g initial
response a	activities.													
Describe Are	a Affected	and Cleanup	Action Tal	cen.*										
				ry and second										
				ed approximat										
		se on 10/18 LO guidelin		ee 1RP-4855)	. Reme	ediation o	ııne	e impacted a	irea wi	ii be co	onai	uctea in a	3CCOT	dance with
THINGOD C		LO guidoiiii												
				e is true and comp										
				nd/or file certain r ce of a C-141 repo										
should their o	perations h	nave failed to	adequately	investigate and r	emediat	e contamin	ation	that pose a thr	eat to gr	round w	ater,	surface wa	ater, hu	ıman health
		addition, NM(ws and/or reg		otance of a C-141	report d	oes not reli	eve t	the operator of	respons	ibility fo	or co	mpliance v	vith an	y other
C C	, or local la	wo and or reg	diations.			OIL CONSERVATION DIVISION								
Signature:	Doni	in Jan	6								15	4		
						Approved 1	oy Er	nvironmental S	pecialis	t:	٦ (\cap		
Printed Name	e: Denise	Jones			-		_	0/7/0040				\		
Title: Regul	atory Ana	al <u>y</u> st			_	Approval I	Date:	2/7/2018		Expirati	on E	Date:		/
E-mail Addre	ess: djones	s@cambria	nmgmt.c	om		Conditions						Attached		
Date: 2/	6/18	oto If Name		: (432) 620-91	81	see attached directive								
Auden Addi	nonai Sne	ets If Necess	sary		ſ	1RP-49	60	nOY.	1803	83 <u>4</u> 01	7			

pOY1803834550

Received by OCD: 8/28/2023 2:02:22 PM State of New Mexico
Page 6 Oil Conservation Division

	Page 65 of 1449
Incident ID	nOY1803834027
District RP	1RP-4960
Facility ID	
Application ID	

Closure

Class Based Attachment Charling Fact of	the following items must be included in the glosure vanout
	the following items must be included in the closure report.
A scaled site and sampling diagram as describe	d in 19.15.29.11 NMAC
Photographs of the remediated site prior to bac must be notified 2 days prior to liner inspection)	ekfill or photos of the liner integrity if applicable (Note: appropriate OCD District office
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Signature: Sund	Date: 5 (5/23
email: dmcinturff@dufrane.com	Telephone: (432) 634-7865
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the re remediate contamination that poses a threat to groun party of compliance with any other federal, state, or	esponsible party of liability should their operations have failed to adequately investigate and dwater, surface water, human health, or the environment nor does not relieve the responsible local laws and/or regulations.
Closure Approved by:	Date:
Printed Name	Title:

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Rele	ease Notific	catio	on and Co	orrective A	Action	1			
						OPERA	ГOR		☐ Initi	al Report		Final Report
		ambrian Mar		, Ltd.		Contact Mike Anthony						-
		Midland TX State SWD	4 79702			Telephone No . 432-631-4398 Facility Type SWD						
raciiity Na	ne Kaisei	State SWD				racility Typ	be SWD					
Surface Ow	ner State			Mineral C	Owner	· State			API No	o. 30-025-	02538	3
Surface 5 W	ner state			u.					111111	3. 30 023	02000	<u>′</u>
Unit Letter	Section	Township	Range	Feet from the		ION OF RELEASE orth/South Line Feet from the			East/West Line County			
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				NAT	[UR]	E OF REL	EASE					
Type of Rele							Release 150 bb			Recovered		
Source of Re	lease Well	head				Date and F 06/20/2018	Hour of Occurren	ice		Hour of Dis 18 10:00A		У
Was Immedi	ate Notice (If YES, To			00/20/20	10 10.001	1111	
			Yes X	No Not Re	quired							
By Whom? Was a Water	course Rea	ched?				Date and H	Hour olume Impacting	the Wat	ercourse			
was a water	course Rea		Yes X	No		II ILS, VC	nume impacting	the wat	creourse.			
If a Waterco	ırse was Im	pacted, Descr	ibe Fully.	*								
Dogoribo Cor	usa of Drobl	lem and Reme	dial Aatia	n Tokon *								
Describe Car	ise of Floor	iem and Keme	diai Actio	II Takeli.								
Nipple on we	ellhead brok	ke off – nipple	was repla	iced								
Describe Are	a Affected	and Cleanup	Action Tal	ken.*	Т	This was on ton	of a muovious ami	11 that m	roo olmoody r	autad aud	منمنا	tha mua aasa ta
be remediate		to the canche	pad. All	water was picked	up. 1	nis was on top	of a previous spi	III that w	as aiready i	reported and	1 1S 1H (ine process to
				e is true and comp								
				nd/or file certain r ce of a C-141 repo								
should their	operations l	nave failed to	adequately	/ investigate and r	emedi	ate contaminati	ion that pose a th	reat to g	round wate	r, surface w	ater, h	uman health
		addition, NMC ws and/or regi		otance of a C-141	report	t does not reliev	e the operator of	respons	sibility for c	ompliance v	with ar	ny other
,	 	-8					OIL CON	ISERV	ATION	DIVISIO	<u>NC</u>	
Signature:					<u></u>							
						Approved by	Environmental S	Specialis	_{st:} 6 0	T		
Printed Nam	e: Denise J	ones										
Title: Regu	latory Anal	yst				Approval Da	7/31/201	8	Expiration	Date:		
E-mail Addr	ess: diones	@cambrianm	gmt.com			Conditions of	f Approval:				. —	/
							tached dire	ctive		Attached	i LU	
Date: 06/21/	2018	Phone:				1RP-5139	<u> </u>	nOL I	<u> </u>	0060		
Released to In	nagina. O	/1/2022 2.5	5.12 DM					рСН	182123	UOOR		
leteusea to H	nuging: 9	11/4045 4:33	1.43 F.W.			nCH1821	∠ აყხაყ					

Received by 10CD: 8/28/2023 2:02:22 PM tate of New Mexico
Page 6 Oil Conservation Division

	Page 67 of 1449
Incident ID	nCH1821239639
District RP	1RP-5139
Facility ID	
Application ID	

Closure

Closure Report Attachment Checklist: Each of the	e following items must be included in the closure report.
✓ A scaled site and sampling diagram as described	
	fill or photos of the liner integrity if applicable (Note: appropriate OCD District office
✓ Laboratory analyses of final sampling (Note: appr	ropriate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and may endanger public health or the environment. The a should their operations have failed to adequately invest human health or the environment. In addition, OCD accompliance with any other federal, state, or local laws restore, reclaim, and re-vegetate the impacted surface a	e and complete to the best of my knowledge and understand that pursuant to OCD rules for file certain release notifications and perform corrective actions for releases which acceptance of a C-141 report by the OCD does not relieve the operator of liability tigate and remediate contamination that pose a threat to groundwater, surface water, acceptance of a C-141 report does not relieve the operator of responsibility for and/or regulations. The responsible party acknowledges they must substantially area to the conditions that existed prior to the release or their final land use in action to the OCD when reclamation and re-vegetation are complete. Title: Project Manager Date: 5/5/23 Telephone: (432) 634-7865
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the resp remediate contamination that poses a threat to groundw party of compliance with any other federal, state, or lo	consible party of liability should their operations have failed to adequately investigate and vater, surface water, human health, or the environment nor does not relieve the responsible scal laws and/or regulations.
Closure Approved by:	Date:
D. C. L. L. N. C.	Title

Received by OCD: 8/28/2023 2:02:22 PM

District 1
1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

Form C-141 Revised April 3, 2017 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Release Notification and Corrective Action

Name of Company Cambrian Management, Ltd						OPERATOR X Initial Report Final Rep						
				t, Ltd		Contact Andy Rickard						
Address PC						Telephone No. 432-620-9181						
Facility Name Kaiser State SWD Surface Owner State Mineral Owner						Facility Type SWD						
						tate			API No	. 30-025-0	2538	
				LOC	ATIO	OF RE	LEASE					
Unit Letter						South Line	Feet from the	East/V	Vest Line	County		
F 13 21S 34E 1980 No							1980	West		Lea		
			Latitu	de 32.480938	N_ Lo	ngitude -10	3.425227	NAD8	3			
				NA'	TURE	OF REL	EASE					
Type of Rele	ase Produce	ed Water				_	Release 200 Bb	ls	Volume I	Recovered 2	200 Bbls	3
Source of Re						Date and H	lour of Occurren	ce		Hour of Dis		
						08/06/2013			08/06/20	18 10:00AM		
Was Immedia	ate Notice G		Yes 🗌	No Not Re	equired	If YES, To Christina I						
By Whom? I	Denise Jones					Date and I	Iour 08/06/2018	3:25 P	М			
Was a Water	course Reac		Yes X	No		If YES, Vo	olume Impacting	the Wate	ercourse.			
If a Watercou	irse was imp	pacted, Desci	noe runy.			DEC	EIVED					
						NLC	LIVLD					
						By O	livia Yu a	t 1 · 48	B pm. A	Aua 07.	2018	8
Valve Malfur Sometimes	nction/Powe when the ti	r Failure ransfer pum	p comes			oump is on,	a fuse blows on				g an ele	
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Received by OCD: 8/28/2023 2:02:22 PM atte of New Mexico
Page 6 Oil Conservation Division

Closure

Closure Report Attachment Checklist: Each of	the following items must be included in the closure report.
A scaled site and sampling diagram as describe	ed in 19.15.29.11 NMAC
Photographs of the remediated site prior to bac must be notified 2 days prior to liner inspection)	ckfill or photos of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: ap	ppropriate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report are may endanger public health or the environment. The should their operations have failed to adequately involved human health or the environment. In addition, OCD compliance with any other federal, state, or local law restore, reclaim, and re-vegetate the impacted surface	rue and complete to the best of my knowledge and understand that pursuant to OCD rules and/or file certain release notifications and perform corrective actions for releases which a acceptance of a C-141 report by the OCD does not relieve the operator of liability restigate and remediate contamination that pose a threat to groundwater, surface water, a acceptance of a C-141 report does not relieve the operator of responsibility for we and/or regulations. The responsible party acknowledges they must substantially be area to the conditions that existed prior to the release or their final land use in fication to the OCD when reclamation and re-vegetation are complete. Title: Project Manager Date: Dat
email: dmcinturff@dufrane.com	Telephone: (432) 634-7865
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the re remediate contamination that poses a threat to ground party of compliance with any other federal, state, or	esponsible party of liability should their operations have failed to adequately investigate ard dwater, surface water, human health, or the environment nor does not relieve the responsible local laws and/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

Form C-141 Revised April 3, 2017 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Release Notification and Corrective Action

						OPERA	TOR		X Initia	al Report	
Name of Co	ompany C	ambrian Ma	nagemen	t, Ltd	(Contact Mr. Mike Anthony					
		, Midland, T	X 79702			Telephone No. 432-631-4398					
Facility Na	me Kaiser	State SWD]	Facility Type SWD					
Surface Ow	mer State			Mineral C)wnor S	Itata			ADI No	o. 30-025-02538	
Surface Ow	ner State				Sec. 17				AFINO	0. 30-023-02338	
TI-te I attac	Section	Town string	Dans	Feet from the		OF RE		I Cant	Wast Time		
Unit Letter Section Township Range Feet from the No. 13 21S 34E 1980 No.						그렇게 다른 아이들이 얼마나 이 교육을 하는 것이다. 그리고 그렇지 않는 사람들이 얼마나 하는 것이 없는 것이다. 그렇게 하는 것이다.			West Line	County Lea	
			Latit	ude 32.480938 NAT		ngitude10		NAD8:	3		
Type of Rele	ase Produc	ed Water		IVAI	CICIE		Release 500 Bb	ls	Volume I	Recovered 500 Bbls	
Source of Re							lour of Occurrence			Hour of Discovery	
						Service and the service and th	3 10:00AM		08/17/20	18 11:00 AM	
Was Immedi	ate Notice (Yes 🗌	No Not Re	quired	If YES, To Olivia Yu	Whom? and other OCD m	nember	on location		
By Whom? I						Date and I	lour 12:00 PM (08/17/20	018		
Was a Water	course Rea	the state of the s	Yes X	No		If YES, Vo	olume Impacting	the Wa	tercourse.		
Describe Car	use of Probl	em and Reme	dial Actio	n Taken.*	mpletely	Ву		at 10		eing repaired or replaced as	
		and Cleanup and Cleanup at			er was re	covered. The	e pit liner and tan	ks will	be washed a	after all water has been picked	
regulations a public health should their or the enviro	Il operators or the envi operations l nment. In a	are required to ronment. The nave failed to	to report a e acceptan adequately OCD acce	nd/or file certain i ce of a C-141 repo y investigate and i	release no ort by the remediate	otifications a NMOCD m contaminat	nd perform correct parked as "Final R ion that pose a thr	ctive ac Report" reat to g	tions for rel does not rel ground wate	suant to NMOCD rules and eases which may endanger ieve the operator of liability r, surface water, human health compliance with any other	
_		_					OIL CON	SERV	VATION	DIVISION	
Signature: James Jose						1911					
Printed Nam	e: Denise J	ones				Approved by	Environmental S	Specialis	st:		
Title: Regulatory Analyst						Approval Da	8/21/2018	8	Expiration	Date:	
E-mail Addr	ess: djones(@cambrianmg	gmt.com			Conditions o	f Approval:			Attached	
Date: 08	3/17/2018		I	Phone:432-620-91	01		•			Attached []	
Date: 08/17/2018 Phone:432-620-9181 Attach Additional Sheets If Necessary NOY1823336566 POY1823336912 eleased to Imaging: 9/1/2023 2:35:43 PM					i	1) Inspect liner in question. Provide NMOCD with a concise report of the inspection with affirmation the liner has and will continue to contain liquids. 2) Dated photo documentation of liner.					

Received by 10CD: 8/28/2023 2:02:22 PM state of New Mexico
Page 6 Oil Conservation Division

	Page /1 of 1449
Incident ID	nOY1823336566
District RP	1RP-5163
Facility ID	
Application ID	

Closure

Closure Report Attachment Checklist: Fach of	the following items must be included in the closure report.
A scaled site and sampling diagram as describe	ed in 19.15.29.11 NMAC
Photographs of the remediated site prior to bar must be notified 2 days prior to liner inspection)	ckfill or photos of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: a	appropriate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
may endanger public health or the environment. The should their operations have failed to adequately invhuman health or the environment. In addition, OCD compliance with any other federal, state, or local law restore, reclaim, and re-vegetate the impacted surface.	nd/or file certain release notifications and perform corrective actions for releases which he acceptance of a C-141 report by the OCD does not relieve the operator of liability vestigate and remediate contamination that pose a threat to groundwater, surface water, acceptance of a C-141 report does not relieve the operator of responsibility for we and/or regulations. The responsible party acknowledges they must substantially be area to the conditions that existed prior to the release or their final land use in fication to the OCD when reclamation and re-vegetation are complete. Title: Project Manager Date: Date: Date:
email: dmcinturff@dufrane.com	Telephone: (432) 634-7865
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the re remediate contamination that poses a threat to groun party of compliance with any other federal, state, or	esponsible party of liability should their operations have failed to adequately investigate and dwater, surface water, human health, or the environment nor does not relieve the responsible local laws and/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NCH1834760902
District RP	1RP-5273
Facility ID	1
Application ID	pCH1834761047

Release Notification

Responsible Party

Responsible	Party Peri	mian Water Solu	tions, LLC	OGRID	OGRID 373626			
Contact Na	me Dale G	losson		Contact 7	Contact Telephone 432-894-3636			
Contact em	ail dale@p	permianws.com		Incident #	NCH1834760902 KAISER STATE SWD			
Contact man	ling address	PO Box 2106,	Midland, TX 79	702	@ 30-025-02538			
atitude 32.	480938			Longitude decimal degrees to 5 deci	-103.425227			
Site Name I	aiser State	SWD	(11112-03-111		Salt Water Disposal			
Date Release	M. St. Branch	3 (123)		District Control	Entra Carlo Ca			
Date Release	Discovered	11/2/18		API# (if ap)	plicable) 30-025-02538			
Unit Letter	Section	Township	Range	Cour	nty			
F	13	218	34E	Lea				
7	Materia	l(s) Released (Select a	all that apply and atta	ch calculations or specific	justification for the volumes provided below)			
Crude Oil		Volume Release	ed (bbls) 20		Volume Recovered (bbls) 16			
Produced	Water	Volume Release	ed (bbls)		Volume Recovered (bbls)			
		Is the concentra produced water	tion of dissolved >10,000 mg/l?	chloride in the	☐ Yes ☐ No			
Condensate Volume Released (bbls)					Volume Recovered (bbls)			
☐ Natural Gas Volume Released (Mcf)			ed (Mcf)		Volume Recovered (Mcf)			
Other (des	scribe)	Volume/Weight	Released (provi	de units)	Volume/Weight Recovered (provide units)			
Cause of Rele	ase Oil ski	m tank overflow	; all fluids conta	ined within contain	ment berm			

Received by OCD: 8/28/2023 2:02:22 PM State of New Mexico
Page 2 Oil Conservation Division

Incident ID NCH1834760902

District RP 1RP-5273

Facility ID

Application ID pCH1834761047

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
☐ Yes ☒ No	
Glosson called District	notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, Dale I office @ 11:25 am on 11/2/18, was transferred to Christina Hernandez, Left voicemail and call back called back later in the afternoon and the report was made.
	Initial Response
The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.
☐ The impacted area has	as been secured to protect human health and the environment.
Released materials ha	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☐ All free liquids and re	ecoverable materials have been removed and managed appropriately.
has begun, please attach	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
regulations all operators are public health or the environmental failed to adequately investigated	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have atteand remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name: Pare Signature:	Gesson Title: OPERATIONS · MANAGER Date: 16/15/18
email: dale@per	Telephone: 432.88443636
OCD Only RFC	EIVED
	ernandez at 4:56 pm, Dec 13, 2018

Received by OCD: 8/28/2023 2:02:22 PM State of New Mexico
Page 6 Oil Conservation Division

	Page /4 of 1449
Incident ID	nCH1834760902
District RP	1RP-5273
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Clasura Panart Attachment Checklist: Fach of	the following items must be included in the closure report.
A scaled site and sampling diagram as describe	d in 19.15.29.11 NMAC
Photographs of the remediated site prior to bac must be notified 2 days prior to liner inspection)	ekfill or photos of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: ap	ppropriate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
may endanger public health or the environment. The should their operations have failed to adequately involument human health or the environment. In addition, OCD compliance with any other federal, state, or local law restore, reclaim, and re-vegetate the impacted surface accordance with 19.15.29.13 NMAC including notifications.	ad/or file certain release notifications and perform corrective actions for releases which acceptance of a C-141 report by the OCD does not relieve the operator of liability estigate and remediate contamination that pose a threat to groundwater, surface water, acceptance of a C-141 report does not relieve the operator of responsibility for we and/or regulations. The responsible party acknowledges they must substantially e area to the conditions that existed prior to the release or their final land use in fication to the OCD when reclamation and re-vegetation are complete. Title: Project Manager Date: Date:
email: dmcinturff@dufrane.com	Telephone: (432) 634-7865
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the reservemediate contamination that poses a threat to ground party of compliance with any other federal, state, or	sponsible party of liability should their operations have failed to adequately investigate and dwater, surface water, human health, or the environment nor does not relieve the responsible local laws and/or regulations.
Closure Approved by:	Date:
Printed Name	Title

From: Smith, Cory, EMNRD

To: Gonzales, Clair

Cc: Crosby, Faith; Mann, Ryan; Dusty McInturff; "Jenni Usher"; Josh Brooks

Subject: RE: [EXTERNAL] PWS - Kaiser SWD - Variance Request _ SW-77, SW-56, SW-53 and SW-68

Date: Wednesday, October 12, 2022 10:13:40 AM

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Clair,

OCD approves the variance to leave SW77,56,53,68 in place because the H2,3,4,5,6 show that its minimal

Please include this approval in your final C-141.

Cory Smith • Environmental Projects Supervisor
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
5200 Oakland Avenue N.E Suite 100 | Albuquerque, NM 87113

505.419.2687 | Cory.Smith@state.nm.us http://www.emnrd.state.nm.us/OCD/

From: Gonzales. Clair < Clair.Gonzales@tetratech.com>

Sent: Tuesday, October 11, 2022 4:03 PM

To: Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>

Cc: Crosby, Faith <fcrosby@slo.state.nm.us>; Mann, Ryan <rmann@slo.state.nm.us>; Dusty McInturff <dmcinturff@dufrane.com>; 'Jenni Usher' <jenni@permianws.com>; Josh Brooks <josh@permianws.com>

Subject: [EXTERNAL] PWS - Kaiser SWD - Variance Request _ SW-77, SW-56, SW-53 and SW-68

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Good Afternoon Cory,

Attached is the analysis table, laboratory report, and updated kmz – which includes the data for sidewall areas SW-77, SW-56, SW-53 and SW-68. These areas exceeded the reclamation thresholds for the top 4.0' for chlorides. However, BTEX and TPH concentrations were below the RRALs and reclamation standards.

The chloride RRALs for the site are 7,000 mg/kg, however the reclamation thresholds for the top 4.0 of material is 600 mg/kg for chlorides.

The chloride concentrations detected at SW-77, SW-56, SW-53 and SW-68 ranged from 1,120 mg/kg to 3,710 mg/kg. Based on discussions with the SLO and OCD during the bi-weekly meetings,

horizontal delineation samples (H-2 through H-6) were collected to the west of the facility from surface to 2' below surface in order to horizontally delineate the chloride impact. Horizontal delineation samples H-2 through H-6 showed chloride concentrations ranging from 17.0 mg/kg to 57.3 mg/kg.

Based on the horizontal delineation of the west sidewall areas of SW-77, SW-56, SW-53 and SW-68, which are along the facility fence line and unable to be expanded off-lease, Permian Water Solutions is requesting a variance to leave the remaining impact above the reclamation standards in place.

Please let me know if you have any questions.

Thank you,

Clair Gonzales,

Clair Gonzales, P.G. | Project Manager & Office Lead

Phone: 432.687.8123| Mobile 432.260.8634 | Fax:432.682.3946

clair.gonzales@tetratech.com

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From: Smith, Cory, EMNRD

To: Gonzales, Clair

Cc: Crosby, Faith; Mann, Ryan; Dusty McInturff; "Jenni Usher"; Josh Brooks

Subject: RE: [EXTERNAL] PWS - Kaiser SWD - Variance Request _ SW-46

Date: Wednesday, October 12, 2022 10:24:31 AM

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Clair,

OCD approves the variance to leave SW46 in place due to vertical/horizontal delineation from H1 and offsite/vegetative regrowth.

Please include this approval in your final C-141.

Cory Smith • Environmental Projects Supervisor Environmental Bureau Projects Group EMNRD - Oil Conservation Division 5200 Oakland Avenue N.E Suite 100 | Albuquerque, NM 87113

5200 Oakland Avenue N.E Suite 100 | Albuquerque, NW 87113 505.419.2687 | Cory.Smith@state.nm.us

http://www.emnrd.state.nm.us/OCD/

From: Gonzales, Clair < Clair.Gonzales@tetratech.com>

Sent: Tuesday, October 11, 2022 4:06 PM

To: Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>

Cc: Crosby, Faith <fcrosby@slo.state.nm.us>; Mann, Ryan <rmann@slo.state.nm.us>; Dusty McInturff <dmcinturff@dufrane.com>; 'Jenni Usher' <jenni@permianws.com>; Josh Brooks <josh@permianws.com>

Subject: [EXTERNAL] PWS - Kaiser SWD - Variance Request SW-46

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Afternoon Cory,

Attached is the analysis table, laboratory report, and updated kmz – which includes the data for sidewall areas SW-46. This area exceeded the reclamation thresholds for the top 4.0' for chlorides. However, BTEX and TPH concentrations were below the RRALs and reclamation standards.

The chloride RRALs for the site are 7,000 mg/kg, however the reclamation thresholds for the top 4.0 of material is 600 mg/kg for chlorides.

The chloride concentration detected at SW-46 was 995 mg/kg. Based on discussions with the SLO

and OCD during the bi-weekly meetings, horizontal delineation sample H-1 was collected to the north of SW-46 from surface to 2' below surface in order to horizontally delineate the chloride impact. Horizontal delineation sample H-1 showed a chloride concentration of 72.0 mg/kg.

Based on the horizontal delineation of the sidewall area of SW-46, which is near the facility fence line and unable to be expanded off-lease, Permian Water Solutions is requesting a variance to leave the remaining impact above the reclamation standards in place.

Please let me know if you have any questions.

Thank you,

Clair Gonzales,

Clair Gonzales, P.G. | Project Manager & Office Lead

Phone: 432.687.8123| Mobile 432.260.8634 | Fax:432.682.3946

clair.gonzales@tetratech.com

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From: Smith, Cory, EMNRD

To: Gonzales, Clair

Cc: Crosby, Faith; Mann, Ryan; "Jenni Usher"; Dusty McInturff; Josh Brooks

Subject: RE: [EXTERNAL] Permian Water Solutions - Kaiser SWD Variance Request

Date: Wednesday, October 12, 2022 10:29:51 AM

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Clair,

OCD approves the Variance to leave SW60, 69,70,71 in place due to monitor well integrity concerns.

Please include this approval in your Final C-141.

Thanks,

Cory Smith • Environmental Projects Supervisor Environmental Bureau Projects Group EMNRD - Oil Conservation Division

5200 Oakland Avenue N.E Suite 100 | Albuquerque, NM 87113

505.419.2687 | Cory.Smith@state.nm.us

http://www.emnrd.state.nm.us/OCD/

From: Gonzales, Clair < Clair. Gonzales@tetratech.com>

Sent: Friday, September 30, 2022 1:21 PM

To: Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>

Cc: Crosby, Faith <fcrosby@slo.state.nm.us>; Mann, Ryan <rmann@slo.state.nm.us>; 'Jenni Usher' <jenni@permianws.com>; Dusty McInturff <dmcinturff@dufrane.com>; Josh Brooks <josh@permianws.com>

Subject: [EXTERNAL] Permian Water Solutions - Kaiser SWD Variance Request

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Afternoon,

Attached is the analysis table detailing the confirmation samples collected at the Permian Water Solutions Kaiser SWD. Four (4) sidewall samples (SW-60, SW-69, SW-70, and SW-71) were collected from the excavation area around the onsite monitor well. The excavation has been performed up to within 15' of the monitor well. Further excavation towards the monitor well cannot be safely performed without risking the well integrity. The sidewall samples collected around the monitor well show concentrations as shown below and on the attached analysis table:

• SW-60: Chloride concentration of 2,390 mg/kg. TPH and BTEX concentrations are below the reclamation standards.

SW-69: Chloride concentration of 6,380 mg/kg and a total TPH concentration of 1,890 mg/kg. BTEX concentrations are non-detect.

- SW-70: Total TPH concentration of 1,770 mg/kg. BTEX and chloride concentrations are below the reclamation standards.
- SW-71: Chloride concentration of 1,460 mg/kg. TPH and BTEX concentrations are non-detect.

Based on the location of the samples collected and risk to the existing monitor well onsite; Permian Water Solutions requests a variance to leave the material around the monitor well, 15' in each cardinal direction, in place.

Please let me know if you have any questions or concerns.

Thank you,

Clair Gonzales,

Clair Gonzales, P.G. | Project Manager & Office Lead

Phone: 432.687.8123| Mobile 432.260.8634 | Fax:432.682.3946

clair.gonzales@tetratech.com

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From: Smith, Cory, EMNRD

To: Gonzales, Clair

Cc: Crosby, Faith; Mann, Ryan; Dusty McInturff; "Jenni Usher"; Josh Brooks

Subject: RE: [EXTERNAL] PWS - Kaiser SWD - Variance Request_ Area of SW-72

Date: Monday, November 28, 2022 11:11:59 AM

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Clair,

OCD approves to Permian's request to leave SW-72 in place due to the delineation samples of H8 and H-9.

Please include this approval in your final C-141 report.

Cory Smith • Environmental Projects Supervisor
Environmental Bureau
EMNRD - Oil Conservation Division

5200 Oakland Avenue N.E Suite 100 | Albuquerque, NM 87113 505.419.2687 | Corv.Smith@emnrd.nm.gov

http://www.emnrd.state.nm.us/OCD/

From: Gonzales, Clair <Clair.Gonzales@tetratech.com>

Sent: Tuesday, November 22, 2022 2:12 PM

To: Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>

Cc: Crosby, Faith <fcrosby@slo.state.nm.us>; Mann, Ryan <rmann@slo.state.nm.us>; Dusty McInturff <dmcinturff@dufrane.com>; 'Jenni Usher' <jenni@permianws.com>; Josh Brooks <josh@permianws.com>

Subject: RE: [EXTERNAL] PWS - Kaiser SWD - Variance Request_ Area of SW-72

Good Afternoon,

As requested, horizontal and vertical delineation of the section between SW-72 and Phase I was completed. Attached is the updated kmz and analysis table. For reference, the sample previously collected at SW-72 showed a TPH concentration of 436 mg/kg at 0-8' bgs, non-detect BTEX concentrations and a chloride concentration of 70.1 mg/kg. Two (2) horizontal delineation samples (H-8 and H-9) were collected at 5' bgs. Both samples showed TPH and BTEX concentrations below the laboratory reporting limits. Additionally, chloride concentrations were below the RRALs for the site with concentrations of 89.9 mg/kg (H-8) and 672 mg/kg (H-9).

Based on the horizontal and vertical delineation of the impact in this area, Permian Water Solutions requests a variance to leave the remaining impact in the area of SW-72 in place.

Please let me know if you have any questions or concerns.

Thank you,

Clair Gonzales,

Clair Gonzales, P.G. | Project Manager & Office Lead

Phone: 432.687.8123| Mobile 432.260.8634 | Fax:432.682.3946

clair.gonzales@tetratech.com

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From: Smith, Cory, EMNRD < cory.smith@emnrd.nm.gov >

Sent: Wednesday, October 12, 2022 9:26 AM

To: Gonzales, Clair < <u>Clair.Gonzales@tetratech.com</u>>

Cc: Crosby, Faith <<u>fcrosby@slo.state.nm.us</u>>; Mann, Ryan <<u>rmann@slo.state.nm.us</u>>; Dusty McInturff <<u>dmcinturff@dufrane.com</u>>; 'Jenni Usher' <<u>jenni@permianws.com</u>>; Josh Brooks <<u>josh@permianws.com</u>>

Subject: RE: [EXTERNAL] PWS - Kaiser SWD - Variance Request_ Area of SW-72

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Clair,

I need to know the total volume of impacted soils estimated to be left in place.. To do that the area between SW-72 SW—9 needs to be vertically delineated.

Cory Smith • Environmental Projects Supervisor

Environmental Bureau Projects Group EMNRD - Oil Conservation Division

5200 Oakland Avenue N.E Suite 100 | Albuquerque, NM 87113

505.419.2687 | Cory.Smith@state.nm.us

http://www.emnrd.state.nm.us/OCD/

From: Gonzales, Clair < <u>Clair.Gonzales@tetratech.com</u>>

Sent: Tuesday, October 11, 2022 3:51 PM

To: Smith, Cory, EMNRD < cory.smith@emnrd.nm.gov>

Cc: Crosby, Faith <<u>fcrosby@slo.state.nm.us</u>>; Mann, Ryan <<u>rmann@slo.state.nm.us</u>>; Dusty McInturff <<u>dmcinturff@dufrane.com</u>>; 'Jenni Usher' <<u>jenni@permianws.com</u>>; Josh Brooks <<u>josh@permianws.com</u>>

Subject: [EXTERNAL] PWS - Kaiser SWD - Variance Request_ Area of SW-72

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Good Afternoon Cory,

Attached is the analysis table, laboratory report, and updated kmz – which includes the data for SW-72.

The RRALs for TPH in this area are 1,000 mg/kg for GRO+DRO or 2,500 mg/kg for total TPH. However, the reclamation thresholds for the top 4.0' are 100 mg/kg for TPH.

Referring to the analysis table, SW-72 showed a TPH concentration of 436 mg/kg. This sample was collected along the 8' sidewall – which proved to be logistically difficult. Therefore, the majority of the material collected for the soil sample was collected from the bottom portion of the sidewall that was easily accessible. Additionally, this sidewall area is approximately 25' from the edge of Phase I SW-9. The sample collected during Phase I at SW-9 showed TPH concentrations below laboratory reporting limits, indicating that the section between SW-72 and SW-9 is horizontally delineated.

Permian Water Solutions would like to request a variance to leave this remaining impact in place, based on the location of the area in proximity to Phase I and SW-9, and the logistics and safety concerns of collecting a composite sample of the top portion of the sidewall.

Let me know if you have any questions or concerns.

Thank you,

Clair Gonzales.

Clair Gonzales, P.G. | Project Manager & Office Lead

Phone: 432.687.8123| Mobile 432.260.8634 | Fax:432.682.3946

clair.gonzales@tetratech.com

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From: Smith, Cory, EMNRD

To: Crosby, Faith; Jenni Usher; Mann, Ryan; Gallegos, David; dmcinturff@dufrane.com; Gonzales, Clair; Josh Brooks

Subject: RE: [EXTERNAL] RE: PWS - Kaiser SWD Confirmation Sampling _ Phase II_UPDATE-12-29-2022

Date: Wednesday, January 18, 2023 10:22:46 AM

Attachments: image001.jpg image002.png

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Jenni,

SW-76 Your variance is approved to leave 931 Chlorides

SW-79 You variance is approved for 613 Chlorides is approved.

Per our conversation during our meeting on January 18, 2023 there is additional delineation data from a prior borehole that shows limited impacts at depth.

Your variance for approval for is approved

SW-75

SW-83

Please include these approvals in your final C-141 report.

Cory Smith • Environmental Projects Supervisor

Environmental Bureau Projects Group EMNRD - Oil Conservation Division 5200 Oakland Avenue N.E Suite 100 | Albuquerque, NM 87113

505.419.2687 | Cory.Smith@state.nm.us http://www.emnrd.state.nm.us/OCD/

From: Crosby, Faith <fcrosby@slo.state.nm.us>

Sent: Tuesday, January 10, 2023 2:35 PM

To: Jenni Usher <jenni@permianws.com>; Mann, Ryan <rmann@slo.state.nm.us>; Gallegos, David <dgallegos@slo.state.nm.us>; Smith, Cory, EMNRD <cory.smith@emnrd.nm.gov>; dmcinturff@dufrane.com; Gonzales, Clair <Clair.Gonzales@tetratech.com>; Josh Brooks <josh@permianws.com>

Subject: [EXTERNAL] RE: PWS - Kaiser SWD Confirmation Sampling _ Phase II_UPDATE-12-29-2022

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Thanks Jenni, Ryan and I will have something in writing to you asap

Best regards,

Faith Crosby
Water Bureau Manager
Oil, Gas, and Minerals Division
Office 505.827.5849
Fax 505-827-4739



New Mexico State Land Office 310 Old Santa Fe Trail Santa Fe, NM 87501 -Or-P.O. Box 1148 Santa Fe, NM 87504-1148

fcrosby@slo.state.nm.us

.....

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From: Jenni Usher < jenni@permianws.com>
Sent: Tuesday, January 10, 2023 1:58 PM

To: Crosby, Faith < fcrosby@slo.state.nm.us; Mann, Ryan < rmann@slo.state.nm.us; Gallegos, David < dgallegos@slo.state.nm.us; Gory, EMNRD Smith < cory.smith@state.nm.us; dmcinturff@dufrane.com; Gonzales, Clair < Clair.Gonzales@tetratech.com; Josh Brooks < josh@permianws.com>

Subject: [EXTERNAL] Re: PWS - Kaiser SWD Confirmation Sampling _ Phase II_UPDATE-12-29-2022

Hi, just keeping this email alive and not buried in everyone's inbox.

-Jenni

From: Jenni Usher

Sent: Wednesday, January 4, 2023 10:49 AM

To: 'Crosby, Faith' <<u>fcrosby@slo.state.nm.us</u>>; 'Mann, Ryan' <<u>rmann@slo.state.nm.us</u>>; Gallegos, David <<u>dgallegos@slo.state.nm.us</u>>; Cory, EMNRD Smith <<u>cory.smith@state.nm.us</u>>; <u>dmcinturff@dufrane.com</u> <<u>dmcinturff@dufrane.com</u>>; Gonzales, Clair <<u>Clair.Gonzales@tetratech.com</u>>; Josh Brooks <<u>josh@permianws.com</u>>

Subject: PWS - Kaiser SWD Confirmation Sampling _ Phase II_UPDATE-12-29-2022

Hi everyone!

I'm forwarding updated lab results from Clair on the recent samples obtained from the SW corner tank battery area, the last portion of the area within the Kaiser lease. I've included some of her notes as well.

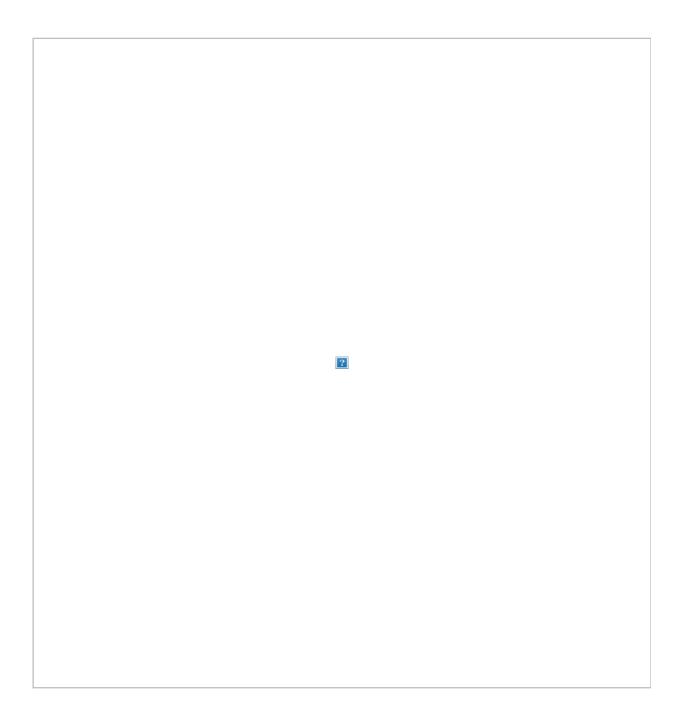
Faith, Dusty and I were on the call today and discussed these samples. I still need to summarize the meeting minutes, but we wanted to get these results circulated for everyone's review to try to avoid any hold-ups in the field for Dusty.

Unfortunately, it looks like the top 4' still exceeded for chlorides.. although not by a lot. Basically, all of the sidewall samples in the top 4' exceeded for chlorides – everything else was good. Now, SW-79 just *barely* exceeded with a concentration of 613 mg/kg. That may be able to be left as is.

I'm not sure how Cory will feel about 1,000 mg/kg in the top 4' in the areas of SW-75, SW-76 and SW-83. Below is a screenshot of where those areas are for reference.

I think we can ask for a variance for the south without issue; we did get that H-7 sample (which was like 26 mg/kg chlorides) so it is horizontally delineated.

Then that would leave us with SW-75 and SW-83 going to the east.



We're essentially up against the Southern Lease Line. There is about 10' further until we hit the Centennial Lease Line to the East. Dusty will need to think about how he could excavate further with the current existing hole and room left to navigate equipment around the lease. He'll get with Clair on sampling options.

On today's call we wondered if digging deeper or vertically delineating out East would be a consideration. Cory could advise on if deferral or variances would be accepted.

I hope this email serves to get us all on the same page with the current situation. Experts, please review and weigh in on how we can take care of this!

PS. I'm unable to attend an 8 am meeting on 1/18. I could probably do 7:30 am if people are up early, or we may propose 1/25 or a recorded 1/18 meeting. Just head's up!

Thank you,
Jenni Usher
Regulatory Analyst
512-820-8772 mobile
jenni@permianws.com



Appendix B

Work Plan (2020)



2020-04-07 Plan Recommendations: The proposed timeline for the plan is 90 days.

The max TPH discovered was 34, 860 mg/kg, max Cl⁻ 30,000 mg/kg and BTEX at 348 mg/kg. Contamination depths have reached at least 25'. Contamination was found in all areas in and around the pad and berm as well as the offsite areas tested.

Tasks:

- Remove all tank batteries, surface and buried pipelines, off-loading station and extraneous debris, including tanks in the pasture area.
- Any items that will be re-used may not be stored on site.
- Excavate the remediation area (inside dashed red line) to 15'. This shall be the new location of the replacement tank battery.
- Requirements for final samples:
 - o Floor samples to be taken in same location as previous samples.
 - o No less than 3 each cardinal sidewall samples around the perimeter.
 - Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻ and BTEX
 ND.
 - PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill pit and excavations with clean, non-blended soils and place a clay membrane/bentonite mat at 4'-5'.

Timeline:

- All equipment to be removed within 45 days.
- Excavation and final sampling to be completed within 45 days.
- Backfill and clay membrane liner placement to be completed within 60 days.

Once Phase 1 is complete, PWS may construct a new tank battery with falcon-type liner, receive a written acceptance of installation, and re-commence commence injection for a period of 6 months. SLO will review activities for compliance with all environmental and easement requirements.



Phase 1 Work Plan Tasks Site Map

Kaiser State SWD #1

Phase 1 Work Plan Tasks:

Site outline

_ . _ Phase 1 remediation area

- 1. Remove all equipment & debris on site.
- 2. Excavate Phase 1 remediation area to 15'.
 - a) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 4 7,000 mg/kg CT
 - . STEX NO.
- Backfill non-blended soils and place a clay membrane/bentonite mat at 4'-5'.

All three stages to take no more than 45 days.



MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site outline

_---

Phase 1 Remediation Area

*

Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 7,000 mg/kg CI*
 - STEXND
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- Completed/Out of scope areas
- - Areas of 15' excavation
- - Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days. **
- assign may change subject to sample date from soil and seater testing.***



		SI	TE INFORM	ATION				
		Report T	ype: Revis	ed Worl	k Plan			
General Site Info	rmation:	•	<u> </u>					
Site:		Kaiser State	SWD					
Company:		Permian Wat	er Solutions					
Section, Townsh	nip and Range	Unit F	Sec. 13	T 21S	R 34E			
Lease Number:		API No. 30-02	25-02538					
County:		Lea						
GPS:			32.48086			-103.42566		
Surface Owner:		State						
Directions:		HWY 176 for a	pproximately 0.25	miles, turn s	outh onto lease	d) in rural Lea County, travel west on e road and continue for 0.25 miles to ne location on the north side of the		
Release Data:		1RP-3512		1RP-3621		1RP-4305		
Date Released:		1/14/2015		4/24/2015		5/17/2016		
Type Release:		Produced Wa	ter	Produced	Water	Produced Water		
Source of Contan	nination:	Vac Truck		Truck hit lo	oad line	Lightning Strike		
Fluid Released:		20 bbls		100 bbls		1050 bbls		
Fluids Recovered:		20 bbls 1RP-4525		100 bbls		1050 bbls		
	Release Data:			1RP-4855		1RP-4960		
Date Released:	Date Released:			10/18/201		1/31/2018		
Type Release:		Produced Wa	ter		Water & Oil	Produced Water		
Source of Contan	nination:	Frac Tanks		Unkown		Seal on Pump		
Fluid Released:		Unknown		50 bbls		20 bbls		
Fluids Recovered	<u>:</u>	0 bbls		0 bbls wat	er	10 bbls		
Release Data:		1RP-5139		1RP-5149		1RP-5163		
Date Released:		6/20/2018		8/6/2018	NA / /	8/17/2018		
Type Release:	-!!	Produced Wa	iter	Produced	vvater	Produced Water		
Source of Contan	nination:	Wellhead		Valve		Unload Tanks		
Fluid Released: Fluids Recovered	ı.	150 bbls 150 bbls		200 bbls 200 bbls		500 bbls		
Release Data:		1RP-5273		200 0015		300 bbis		
Date Released:		11/2/2018 Oil						
Type Release: Source of Contan	nination:	Tank Overflox	Λ/					
Fluid Released:	iiriatiOri.	20 bbls	<u>/V</u>					
Fluids Recovered								
Official Commun		16 bbls		<u> </u>				
Name:	James Corbitt				Clair Gonzale	es		
Company:	Permian Water So	lutions			Tetra Tech			
Address:	415 W. Wall St.				901 West Wa	all Street		
	Suite 320				Suite 100	5550		
City:	Midland, TX 79701				Midland, Tex	36		
Phone number:	(432) 305-4124				(432) 687-81	10		
Fax:					0			
Email:	james@permian	ws.com			Clair.Gonza	les@tetratech.com		

Site Characterization	
Depth to Groundwater:	Greater than 100'
Karst Potential:	Low

Recommended Remedial Action Levels (RRALs)										
Benzene	Total BTEX	TPH (GRO+DRO)	TPH (GRO+DRO+MRO)	Chlorides						
10 mg/kg	50 mg/kg	1,000 mg/kg	2,500 mg/kg	20,000 mg/kg						



January 27, 2020

New Mexico State Land Office 310 Old Santa Fe Trail P.O. Box 1148 Santa Fe, New Mexico 87504 Oil Conservation Division, District 1 1625 North French Drive Hobbs, New Mexico, 88240

Revised Work Plan for the Permian Water Solutions, LLC., Kaiser State SWD, Unit Re: F, Section 13, Township 21 South, Range 34 East, Lea County, New Mexico.

Tetra Tech, Inc. (Tetra Tech) was contacted by Permian Water Solutions, LLC. (Permian Water Solutions) to assess the impacted areas at the Kaiser State SWD, Unit F, Section 13, Township 21 South, Range 34 East, Lea County, New Mexico. The site coordinates are 32.48086°, -103.42566°. The site location is shown on Figures 1 and 2.

Background

Ten releases occurred at the site impacting the pad area and inside the facility berms. The initial C-141 Forms are included in Appendix A.

- **1RP-3512:** According to the State of New Mexico C-141 Initial Report submitted by Pyote Water Systems, LLC the release was discovered on January 14, 2015 and released approximately 20 bbls of produced water due to a vac truck over filling the sumps. Approximately 20 bbls of fluids were recovered.
- 1RP-3621: According to the State of New Mexico C-141 Initial Report submitted by Pyote Water Systems, LLC the release was discovered on April 24, 2015 and released approximately 100 barrels of produced water due to a truck hitting a load line. Approximately 100 bbls of fluids were recovered.
- 1RP-4305: According to the State of New Mexico C-141 Initial Report submitted by Pyote Water Systems, LLC the release was discovered on May 17, 2016 and released approximately 1050 barrels of produced water due to a lightning strike. Approximately 1050 bbls of fluids were recovered.
- **1RP-4525:** According to the State of New Mexico C-141 Initial Report submitted by Cambrian Management, LTD the release was due to a leak in the frac tanks used during facility reconstruction after the lightning strike. An unknown volume of fluids was released, and none were recovered.



- 1RP-4855: According to the State of New Mexico C-141 Initial Report submitted by Cambrian Management, LTD the release was discovered on October 18, 2017 and released approximately 50 bbls of produced water and crude oil within the berm due to an unknown cause. None of the fluids were recovered.
- 1RP-4960: According to the State of New Mexico C-141 Initial Report submitted by Cambrian Management, LTD the release was discovered on January 31, 2018 and released approximately 20 bbls of produced water due to a failed seal on a pump. Vacuum trucks were dispatched to remove all free-standing fluids, recovering approximately 10 bbls of fluids.
- 1RP-5139: According to the State of New Mexico C-141 Initial Report submitted by Cambrian Management, LTD the release was discovered on June 20, 2018 and released approximately 150 bbls of produced water due to a nipple on the wellhead. Approximately 150 bbls of fluids were recovered.
- 1RP-5149: According to the State of New Mexico C-141 Initial Report submitted by Cambrian Management, LTD the release was discovered on August 6, 2018 and released approximately 200 bbls of produced water due to a valve misfunction. Approximately 200 bbls of fluids were recovered.
- 1RP-5163: According to the State of New Mexico C-141 Initial Report submitted by Cambrian Management, LTD the release was discovered on August 17, 2018 and released approximately 500 bbls of produced water due to a valve misfunction, causing tanks to over flow into the lined berm. Approximately 500 bbls of fluids were recovered.
- 1RP-5273: According to the State of New Mexico C-141 Initial Report submitted by Permian Water Solutions, LLC the release was discovered November 2, 2018 and released approximately 20 bbls of crude oil due to an oil skim tank overflowing into the berm. Approximately 16 bbls of fluids were recovered.

Site Characterization

A site characterization was performed for the site and no watercourses, lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances. Additionally, the site is located in a low karst potential area. The nearest well is listed on the USGS Water Information System database in Section 13, approximately ½ mile south of the site, and has a reported depth to groundwater of 101' below surface. According to the Chevron Texaco Groundwater Trend map, the average depth to groundwater in this area is between 100' and 125' below surface. The groundwater data is shown in Appendix B.

Regulatory

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases,



updated August 14, 2018. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. A site characterization was performed for the site and no watercourses, lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances. The proposed RRAL for benzene was determined to be 10 milligrams per kilogram (mg/kg) and 50 mg/kg for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the site characterization, the proposed RRAL for TPH is 2,500 mg/kg (GRO + DRO + MRO) or 1,000 mg/kg (GRO + DRO). Additionally, based on the site characterization, the proposed RRAL for chlorides is 20,000 mg/kg.

Soil Assessment and Analytical Results

Initial Assessment

Between May 7th and May 14th, 2019, Tetra Tech personnel were onsite to sample the facility areas. A total of thirty-one (31) sample points were installed to total depths ranging from 0-1' and 39'-40' below surface. Sample points SP-1, SP-2, SP-4, SP-5, SP-6, SP-7, SP-8, SP-9, SP-10, SP-11, SP-12, SP-14, SP-15, SP-16, SP-27, SP-29, SP-30, SP-31, and SP-32 were installed using a truck mounted air rotary rig. Due to access and safety issues, sample points SP-3, SP-13, SP-17, SP-18, SP-19, SP-20, SP-21, SP-22, SP-23, SP-24, SP-25, and SP-26 were installed using a stainless-steel hand auger. Selected soil samples were collected and submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D. The results of the sampling are summarized in Table 1. The drilling logs are shown in Appendix C. The sample locations are shown on Figure 3.

Pad and Facility Areas

Referring to Table 1, sample points SP-1 through SP-16 and SP-27 through SP-32 did not show any benzene or total BTEX concentrations above the RRALs. However, sample points SP-2, SP-5, and SP-27 showed TPH concentrations above the RRALs with TPH highs of 20,034 mg/kg, 18,710 mg/kg, and 6,850 mg/kg at 6'-7' below surface, respectively. The TPH concentrations then declined with depth to below the RRALs at depths ranging from 9'-10' and 19'-20' below surface. None of the other sample points on the pad and facility areas showed TPH concentrations above the thresholds.

Additionally, the area of sample point (SP-8) showed a chloride concentration above the 20,000 mg/kg threshold at 0-1' below surface, which declined with depth and showed a bottom hole concentration of 96.0 mg/kg at 29'-30' below surface. None of the remaining sample points on the pad and facility areas showed chloride concentrations above the RRAL.



Bermed Areas

The areas of sample points (SP-17 through SP-26), which were collected inside the bermed facilities, were installed to total depths ranging from 0-1' and 5-5.5' below surface. Deeper samples could not be collected due to a dense formation in the area and the truck mounted air rotary rig could not safely access these areas for deeper samples.

Referring to Table 1, the area of sample point (SP-22) did not show any benzene, total BTEX, TPH, or chloride concentrations above the RRALs. However, the areas of sample points (SP-17, SP-18, SP-19, SP-20, SP-21, SP-23, SP-24, SP-25, and SP-26) showed elevated TPH concentrations to the soils. The areas of sample points (SP-17, SP-21, and SP-25) showed TPH concentrations that declined with depth to below the thresholds at 2-3' below surface. The remaining areas were not vertically defined for TPH.

Additionally, the area of sample point (SP-20) showed benzene and total BTEX concentrations above the RRALs which were not vertically defined at 5-5.5' below surface. None of the remaining sample points inside the bermed facilities showed benzene concentrations above the 10 mg/kg threshold. In addition, the areas of sample points (SP-17, SP-21, SP-24 and SP-26) did not show any total BTEX concentrations above the RRALs. However, the areas of (SP-18, SP-19, SP-21, SP-23, and SP-25) showed total BTEX concentrations above the RRALs and the areas of sample points (SP-19, SP-20, and SP-23) were not vertically defined.

None of the samples collected at sample points (SP-17 through SP-26) showed chloride concentrations above the 20,000 mg/kg threshold.

Additional Assessment

As requested by NMSLO, Permian Water Solutions removed the tanks and equipment from the two onsite facilities to allow access for vertical delineation. Tetra Tech personnel returned to the site on October 21-22, 2019, in order to vertically delineate the areas of SP-17 (BH-17), SP-18 (BH-18), SP-19 (BH-19), SP-20 (BH-20), SP-23 (BH-23), SP-24 (BH-24), SP-25 (BH-25), and SP-26 (BH-26) as well as to install four additional soil borings (BH-33, BH-34, BH-35, and BH-36) beneath the tanks of the eastern facility. The soil borings were installed using a truck mounted air rotary rig to total depths ranging from 19'-20' and 54'-55' below surface. Selected soil samples were collected and submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D. The results of the sampling are summarized in Table 1. The sample locations are shown on Figure 3

Referring to Table 1, none of the samples collected at any of the boreholes showed any benzene or chloride concentrations above the RRALs. Additionally, none of the samples collected at BH-17, BH-33, or BH-35 showed total BTEX or TPH concentrations above the RRALs.



The area of BH-36 showed a TPH high concentration of 9,630 mg/kg at 0-1', which declined with depth to 710 mg/kg at 2-3' below surface. The areas of BH-18, BH-24, and BH-34 showed TPH high concentrations of 12,700 mg/kg at 0-1', 6,400 mg/kg at 2-3', and 10,200 mg/kg at 0-1', respectively, which then declined with depth to below the RRALs at 4'-5' below surface. The areas of BH-19, BH-23, BH-25, and BH-26 showed elevated TPH concentrations to depths of 4-5', before declining with depth to below the RRALs at 6-7' below surface.

The areas of BH- 18, BH-19, BH-23, BH-24, BH-26, BH-34, and BH-36 did not show any total BTEX concentrations above the RRALs. However, the area of BH-20 showed a BTEX high concentration of 119 mg/kg at 6-7', which declined with depth to 16.1 mg/kg at 9'-10' below surface and the area of BH-25 showed a BTEX high of 194 mg/kg at 4-5' which declined with depth to below the laboratory reporting limit at 6-7' below surface.

At the request of NMSLO, the tanks located in the western berm were removed and Tetra Tech returned to the site on January 13, 2020 to install 2 additional bore holes (SP-37 and SP-38) beneath the previous location of the tanks. The soil borings were installed using a truck mounted air rotary rig to total depths ranging from 24'-25' and 34'-35' below surface. All soil samples were collected and submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D. The results of the sampling are summarized in Table 1. The sample locations are shown on Figure 3

Referring to Table 1, none of the samples collected showed benzene concentrations above the RRAL. Additionally, none of the samples collected in the areas of SP-37 and SP-38 showed chloride concentrations above the RRAL, with chloride high concentrations of 4,810 mg/kg (4'-5') and 6,130 mg/kg (2'-3'), respectively. The chloride concentrations then decreased with depth to below 600 mg/kg at 14'-15' (SP-37) and 19'-20' (SP-38). However, both areas showed TPH highs of 6,260 mg/kg (SP-37) and 7,340 mg/kg (SP-38) at 4'-5, which then decreased with depth to below the RRALs at 6'-7' below surface. Additionally, BTEX highs of 178 mg/kg (SP-37) and 51.0 mg/kg (SP-38) were detected at 4'-5', which decreased to below the RRAL at 6'-7' below surface.

Work Plan

Based on the laboratory data, Permian Water Solutions proposes to excavate the areas as shown on Figure 4 and highlighted (green) on Table 1. The areas of sample points SP-1, SP-3, SP-6, SP-7, SP-9, SP-10, SP-21, and SP-30 will be excavated to 6" to 1.0' below surface to address the surficial impact. The areas of sample points SP-2, SP-8, and SP-27 will be excavated to approximately 6'-7' below surface and the area of sample point SP-5 will be excavated to approximately 14-15' below surface. Additionally, as requested by NMSLO, the area of SP-4 will be excavated to 4-5' below surface.

To address the areas inside the bermed facilities, Permian Water Solutions proposes to excavate the areas of sample points SP-17, SP-18, SP-24, and SP-34 to approximately 3'



below surface, the areas of SP-19, SP-23, SP-25, SP-26, SP-36, SP-37, and SP-38 to approximately 5', and the area of SP-20 to approximately 10' below surface.

Once excavated, composite bottom hole and sidewall confirmation samples will be collected every 200 square feet, to be representative of the area and to confirm proper removal of the impacted soils. The areas will then be backfilled with clean material to surface grade, including the area of SP-3. Permian Water Solutions estimates approximately 15,200 cubic yards will be excavated, and the remediation to be implemented 90 days after the work plan is approved by both the NMSLO and NMOCD.

The proposed excavation depths may not be reached due to wall cave ins and safety concerns for onsite personnel. In addition, impacted soil around oil and gas equipment, structures or lines may not be feasible or practicable to be removed due to safely concerns for onsite personnel. As such, Permian Water Solutions will excavate the impacted soils to the maximum extent practicable.

Conclusion

Once the remediation activities are completed, a closure report will be prepared for NMOCD and NMSLO approval. If you have any questions or comments concerning the assessment or remediation activities for this site, please call at (432) 682-4559.

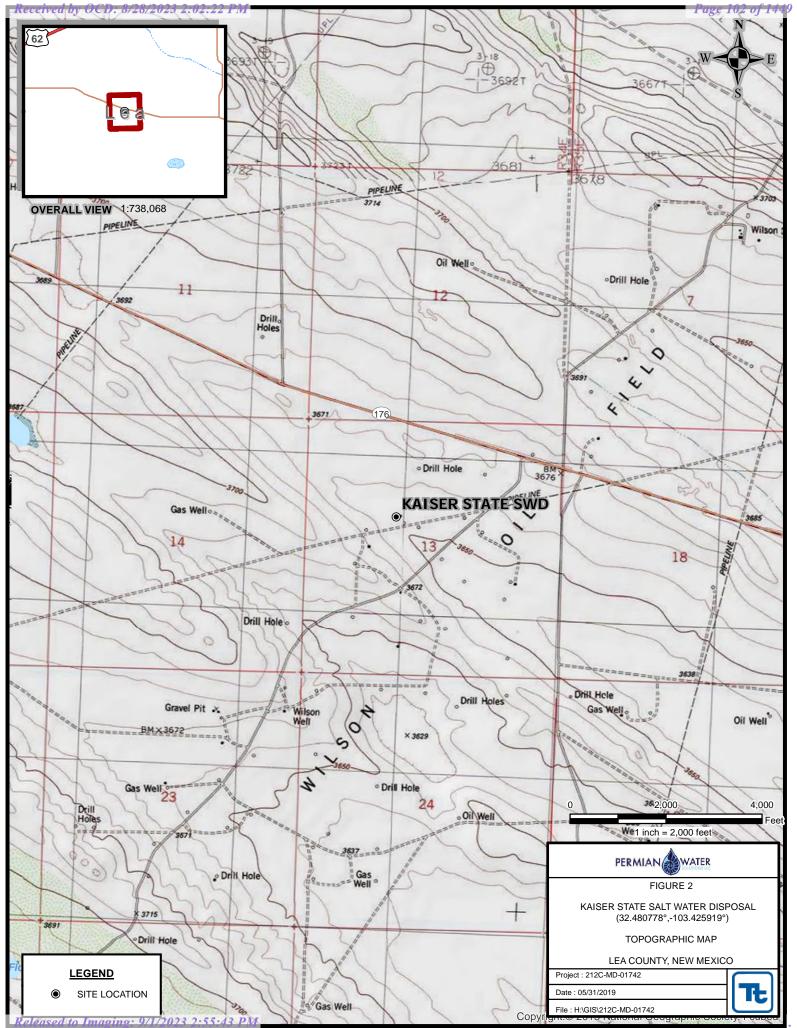
Respectfully submitted, TETRA TECH

Clair Gonzales, P.G.,

Project Manager

Figures





EQUIPMENT

Source: "New Mexico". $32^{\circ}28'50.80"N$, $103^{\circ}25'33.31"W$. Google Earth. November 02,2017. November 7, 2019.



PERMIAN Approximate Scale in Feet





FIGURE

Tables

Table 1
Permian Water Solutions
Kaiser SWD
Lea County, New Mexico

	Sample	Sample Depth (ft)	Soil	Status	TPH (mg/kg)				Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Date		In-Situ	Removed	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SP-1	5/7/2019	0-1	X	Removed	<10.0	174	77.3	251	<0.050	<0.050	<0.050	<0.0150	<0.300	5,560
	"	2-3	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	1,650
	"	4-5	Χ		-	-	-	-	-	-	-	-	-	1,330
	"	6-7	Χ		-	-	-	-	-	-	-	-	-	864
	"	9-10	Χ		-	-	-	-	-	-	-	-	-	656
	"	14-15	Χ		-	-	-	-	-	-	-	-	-	496
	"	19-20	Χ		-	-	-	-	-	-	-	-	-	576
	"	24-25	Χ		-	-	-	-	-	-	-	-	-	320
	"	29-30	Χ		-	-	-	-	-	-	-	-	-	144
	"	34-35	Х		-	-	-	-	-	-	-	-	-	144
SP-2	5/7/2019	0-1	Χ		239	2,970	553	3,523	<0.050	0.372	0.760	6.36	7.49	6,530
	"	2-3	Χ		58.6	638	128	825	<0.050	0.068	0.193	1.63	1.89	4,960
	"	4-5	Χ		<50.0	346	248	594	< 0.050	< 0.050	<0.050	<0.0150	<0.300	2,200
	"	6-7	Χ		394	14,900	4,740	20,034	<0.050	0.068	0.717	1.67	2.46	2,160
	"	9-10	Χ		10.4	592	221	823	<0.050	<0.050	<0.050	<0.0150	<0.300	2,480
	"	14-15	Χ		-	-	-	-	-	-	-	-	-	4,640
	"	19-20	Χ		-	-	-	-	-	-	-	-	-	1,100
	"	24-25	Χ		-	-	-	-	-	-	-	-	-	448
	"	29-30	Χ		-	-	-	-	-	-	-	-	-	240
	"	34-35	Х		-	-	-	-	-	-	-	-	-	240
SP-3	5/8/2019	0-1	Χ		<10.0	113	35.2	148	<0.050	< 0.050	<0.050	<0.0150	<0.300	3,040
	5/13/2019	1-1.5	Χ		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	240
	"	2-2.5	Χ		-	-	-	-	-	-	-	-	-	240
	"	3-3.5	Χ		-	-	-	-	-	-	-	-	-	160
	"	4-4.5	Х		-	-	-	-	-	-	-	-	-	160
	"	5-5.5	Х		-	-	-	-	-	-	-	-	-	240
SP-4	5/7/2019	0-1	Χ		<10.0	11.6	<10.0	11.6	<0.050	< 0.050	<0.050	<0.0150	<0.300	1,680
	"	2-3	Χ		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.0150	<0.300	1,170
	"	4-5	Χ		-	-	-	-	-	-	-	-	-	928
	"	6-7	Χ		-	-	-	-	-	-	-	-	-	624
	"	9-10	Χ		-	-	-	-	-	-	-	-	-	464
	"	14-15	Χ		-	-	-	-	-	-	-	-	-	400
SP-5	5/7/2019	0-1	Χ		<10.0	91.4	56.8	148	< 0.050	< 0.050	<0.050	<0.0150	<0.300	5,040
	"	2-3	Χ		<50.0	522	330	852	<0.050	< 0.050	<0.050	<0.0150	<0.300	784
	"	4-5	Χ		<10.0	401	270	671	<0.050	<0.050	<0.050	<0.0150	<0.300	368
	"	6-7	Χ	_	400	13,800	4,510	18,710	<0.050	0.468	1.35	2.49	4.31	224
	"	9-10	Χ		174	7,720	2,550	10,444	<0.050	0.175	0.429	1.25	1.85	224
	"	14-15	Χ		11.2	1,150	287	1,448	<0.050	<0.050	<0.050	<0.0150	<0.300	240
	"	19-20	Χ		<10.0	945	239	1,184	<0.050	<0.050	<0.050	<0.0150	<0.300	368
	"	24-25	Х		<10.0	609	145	754	<0.050	<0.050	<0.050	<0.0150	<0.300	288
	"	29-30	Х		-	-	-	-	-	-	-	-	-	64.0
	"	34-35	Χ		-	-	-	-	-	-	-	-	-	96.0

Table 1
Permian Water Solutions
Kaiser SWD
Lea County, New Mexico

OI- ID	Sample	Sample Depth (ft)	Soil Status TPH (mg/kg)						Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Date		In-Situ	Removed	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SP-6	5/7/2019	0-1	Χ		<10.0	106	46.2	152	<0.050	<0.050	<0.050	<0.0150	<0.300	5,520
	"	2-3	Χ		<10.0	120	51.6	172	<0.050	<0.050	<0.050	<0.0150	<0.300	2,040
	"	4-5	Χ		-	-	-	-	-	-	-	-	-	640
	"	6-7	Χ		-	-	-	-	-	-	-	-	-	640
	"	9-10	Χ		-	-	-	-	-	-	-	-	-	752
	"	14-15	Χ		-	-	-	-	-	-	-	-	-	576
	II .	19-20	Χ		-	-	-	-	-	-	-	-	-	432
SP-7	5/7/2019	0-1	Х		<10.0	<10.0	<10.0	<10.0	< 0.050	<0.050	<0.050	<0.0150	<0.300	3,920
	"	2-3	Х		<10.0	<10.0	<10.0	<10.0	<0.050	< 0.050	<0.050	<0.0150	< 0.300	1,140
	"	4-5	Χ		-	-	-	-	-	-	-	-	-	1,410
	"	6-7	Χ		-	-	-	-	-	-	-	-	-	672
	"	9-10	Χ		-	-	-	-	-	-	-	-	-	768
	"	14-15	Χ		-	-	-	-	-	-	-	-	-	880
	"	19-20	Χ		-	-	-	-	-	-	-	-	-	352
	"	24-25	Χ		-	-	-	-	-	-	-	-	-	128
SP-8	5/7/2019	0-1	Χ		<10.0	284	61.1	345	< 0.050	0.121	0.136	0.382	0.639	30,000
	"	2-3	Х		<10.0	86.3	<10.0	86.3	<0.050	<0.050	<0.050	<0.0150	<0.300	10,200
	"	4-5	Х		-	-	-	-	-	-	-	-	-	12,000
	"	6-7	Х		-	-	-	-	-	-	-	-	-	10,400
	"	9-10	Х		-	-	-	-	-	-	-	-	-	7,200
	"	14-15	Χ		-	-	-	-	-	-	-	-	-	4,400
	"	19-20	Χ		-	-	-	-	-	-	-	-	-	2,360
	"	24-25	Χ		-	-	-	-	-	-	-	-	-	304
	"	29-30	Χ		-	-	-	-	-	-	-	-	-	96.0
SP-9	5/7/2019	0-1	Χ		<10.0	192	118	310	< 0.050	<0.050	<0.050	< 0.0150	<0.300	8,660
	"	2-3	Х		<10.0	10.9	<10.0	10.9	<0.050	<0.050	<0.050	<0.0150	<0.300	2,320
	"	4-5	Х		-	-	-	-	-	-	-	-	-	2,760
	"	6-7	Х		-	-	-	-	-	-	-	-	-	4,400
	"	9-10	Х		-	-	-	-	-	-	-	-	-	3,760
	"	14-15	Χ		-	-	-	-	-	-	-	-	-	4,800
	"	19-20	Χ		-	-	-	-	-	-	-	-	-	4,560
	"	24-25	Х		-	-	-	-	-	-	-	-	-	1,230
	"	29-30	Х		-	-	-	-	-	-	-	-	-	528
	"	34-35	Х		-	-	-	-	-	-	-	-	-	832
SP-10	5/8/2019	0-1	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,280
	"	2-3	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	272
	"	4-5	X		-	-	-	-	-	-	-	-	-	176
SP-11	E/0/0040	l		I	-400	-10.0	-10.0	-10.0	-0.050	-0.050	-0.050	-0.450	-0.200	
or-11	5/8/2019	0-1	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	224
		2-3	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
	"	4-5	X		-	-	-	-	-	-	-	-	-	192
	"	6-7	X		-	-	-	-	-	-	-	-	-	96
		9-10	Х	<u> </u>	-	-	-	-	-	-	-	-	-	112

Table 1
Permian Water Solutions
Kaiser SWD
Lea County, New Mexico

	Sample	Sample	Soil	Status	TPH (mg/kg)				Benzene	Toluene	Ethlybenzene	Xylene Tota	Total BTEX	Chloride
Sample ID	Date	Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SP-12	5/8/2019	0-1	X	Kemoved	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,040
	"	2-3	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
	"	4-5	Х		-	-	-	-	-	-	-	-	-	800
	"	6-7	Χ		-	-	_	-	-	-	-	-	-	304
	"	9-10	Х		-		-	-	-	-	-	-	-	128
	"	14-15	Χ		-	-	-	-	-	-	-	-	-	208
SP13	5/8/2019	0-1	Х		<10.0	159	52.8	212	<0.050	<0.050	<0.050	<0.150	<0.300	288
SP-14	5/8/2019	0-1	Х	·	<10.0	504	332	836	<0.050	<0.050	<0.050	<0.150	<0.300	640
	"	2-3	Χ		<10.0	100	55.6	156	<0.050	<0.050	<0.050	<0.150	<0.300	544
	"	4-5	Χ		-	-	-	-	-	-	-	-	-	464
	"	6-7	Χ		-	-	-	-	-	-	-	-	-	384
	"	9-10	Χ		-		-	-	-	-	-	-	-	288
	"	14-15	Χ		-	-	-	-	-	-	-	-	-	544
	"	19-20	Х		-	-	-	-	-	-	-	-	-	1,960
	"	24-25	Χ		-		-	-	-	-	-	-	-	688
	"	29-30	Χ		-	-	-	-	-	-	-	-	-	208
	"	34-35	Х		-	-	-	-	-	-	-	-	-	80.0
SP-15	5/8/2019	0-1	Х	1	<10.0	66.4	40.6	107	<0.050	<0.050	<0.050	<0.150	<0.300	480
	"	2-3	Х		<10.0	<10.0	<10.0	<10.0	<0.050	< 0.050	<0.050	<0.150	<0.300	672
	"	4-5	Χ		-	-	-	-	-	-	-	-	-	320
	"	6-7	Χ		- 1	-	-	-	-	-	-	-	-	176
SP-16	5/8/2019	0-1	Х	1	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	384
	"	2-3	Χ		<10.0	<10.0	<10.0	<10.0	<0.050	< 0.050	<0.050	<0.150	<0.300	1,410
	"	4-5	Χ		-	-	-	-	-	-	-	-	-	1,570
	"	6-7	Х		-	-	-	-	-	-	-	-	-	1,330
	"	9-10	Χ		-		-	-	-	-	-	-	-	1,170
	"	14-15	Χ		-	-	-	-	-	-	-	-	-	288
	"	19-20	Х		-	-	-	-	-	-	-	-	-	816
SP-17	5/8/2019	0-1	Χ		2,130	11,200	2,010	15,340	<0.500	1.85	4.81	42.6	49.3	7,040
Inside Berm	"	2-3	Χ		16.7	463	78.3	<10.0	<0.050	<0.050	<0.050	0.214	<0.300	11,200
	"	3-4	Χ		-	-	-	-	-	-	-	-	-	9,600
	5/13/2019	4-4.5	Χ		<10.0	622	75.3	697	<0.050	0.076	<0.050	0.184	<0.300	3,760
	"	5-5.5	Χ		<10.0	145	<10.0	145	< 0.050	<0.050	<0.050	<0.150	<0.300	9,680
BH-17	10/21/2019	0-1	Х		<50.3	<10.0	<10.0	<10.0	<0.00101	<0.00101	<0.00101	0.00522	0.00522	881
	"	2-3	Χ		<49.9	<10.0	<10.0	<10.0	<0.00101	<0.00101	<0.00101	0.0122	0.0122	1,180
	"	4-5	Χ		<50.1	<50.1	<50.1	<50.1	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	1,110
	"	6-7	Χ		<49.8	<49.8	<49.8	<49.8	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	2,270
	"	9-10	Χ		<50.1	<50.1	<50.1	<50.1	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	1,050
	"	14-15	Χ		<50.1	<50.1	<50.1	<50.1	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	1,520
	"	19-20	Χ		<50.2	<50.2	<50.2	<50.2	<0.000996	<0.000996	<0.000996	<0.000996	<0.000996	1,710
	"	24-25	Χ		<49.8	<49.8	<49.8	<49.8	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	937

Table 1
Permian Water Solutions
Kaiser SWD
Lea County, New Mexico

Sample ID	Sample	Sample	Soil	Status		TPH (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Date	Depth (ft)			GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SP-18	5/7/2019	0-1	In-Situ X	Removed	1,950	8,290	1,320	11,560	0.883	20.6	9.44	60.9	91.8	9,730
Inside Berm	"	2-3	X		177	1,990	506	2,673	<0.050	0.124	0.430	1.06	1.61	5,520
BH-18	10/21/2019	0-1	Х		<251	11,100	1,640	12,700	<0.101	<0.101	0.196	0.965	1.16	7,190
	"	2-3	Х		444	6,210	747	7,400	<0.100	0.279	0.594	1.73	2.61	6,180
	"	4-5	Х		<49.9	183	<49.9	183	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	8,280
	"	6-7	Χ		<50.2	<50.2	<50.2	<50.2	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	5,540
	"	9-10	Χ		<50.3	<50.3	<50.3	<50.3	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	3,010
	"	14-15	Х		<49.8	<49.8	<49.8	<49.8	<0.000984	<0.000984	<0.000984	<0.000984	<0.000984	1,610
	"	19-20	Χ		<50.0	<50.0	<50.0	<50.0	<0.000986	<0.000986	<0.000986	<0.000986	<0.000986	4,720
	"	24-25	Χ		<49.8	<49.8	<49.8	<49.8	<0.000986	<0.000986	<0.000986	0.00348	0.00348	2,630
	"	29-30	Х		<49.7	<49.7	<49.7	<49.7	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	1,250
	"	34-35	Χ		<50.0	<50.0	<50.0	<50.0	<0.000996	<0.000996	<0.000996	<0.000996	<0.000996	1,120
	"	39-40	Χ		<50.1	<50.1	<50.1	<50.1	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	772
	"	44-45	Х		<50.0	<50.0	<50.0	<50.0	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	633
	"	49-50	Х		<49.9	<49.9	<49.9	<49.9	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	388
SP-19	5/8/2019	0-1	Х		2,980	14,800	2,930	20,710	3.95	46.4	9.53	71.3	131	6,560
Inside Berm	"	2-3	Χ		64.8	786	176	1,027	<0.050	0.143	0.191	0.451	0.784	12,800
	5/13/2019	4-4.5	Х		2,270	7,380	805	10,455	2.21	48.5	36.9	131	219	4,120
BH-19	10/22/2019	0-1	Х		474	8,050	729	9,250	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	4,160
	"	2-3	X		97.5	2,900	253	3,250	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	9,700
	"	4-5	Χ		87.1	2,090	186	2,360	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	10,200
	"	6-7	Х		<50.2	<50.2	<50.2	<50.2	<0.000998	<0.000998	<0.000998	<0.000998	<0.000998	7,660
	"	9-10	Χ		<49.9	<49.9	<49.9	<49.9	<0.000990	<0.000990	<0.000990	<0.000990	<0.000990	10,300
	"	14-15	X		<49.8	<49.8	<49.8	<49.8	<0.000990	<0.000990	<0.000990	<0.000990	<0.000990	9,650
	"	19-20	Χ		<49.8	<49.8	<49.8	<49.8	<0.000996	<0.000996	<0.000996	<0.000996	<0.000996	11,500
	"	24-25	Χ		<50.0	<50.0	<50.0	<50.0	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	811
	"	29-30	Χ		<50.0	<50.0	<50.0	<50.0	<0.000998	<0.000998	<0.000998	<0.000998	<0.000998	502
	"	34-35	Х		<49.8	<49.8	<49.8	<49.8	<0.000982	0.00182	<0.000982	<0.000982	0.00182	171
	"	39-40	Х		<49.9	<49.9	<49.9	<49.9	<0.000986	<0.000986	<0.000986	<0.000986	<0.000986	495
SP-20	5/8/2019	0-1	Χ		3,520	25,300	6,040	34,860	21.7	80.8	17.3	61.2	181	2,520
Inside Berm	"	2-3	Х		2,930	13,400	2,870	19,200	15.3	73.7	15.0	101	205	1,630
	5/13/2019	4-4.5	Х		3,900	11,300	1,620	16,820	15.3	102	49.2	162	329	1,550
	"	5-5.5	Х		4,390	11,300	1,390	17,080	18.0	120	56.6	153	348	1,600
BH-20	10/22/2019	0-1	Х		302	3,560	339	4,200	0.00241	0.0227	0.0126	0.0558	0.0935	2,680
	"	2-3	Х		821	4,840	396	6,060	0.5700	7.56	4.92	24.4	37.4	5,240
	"	4-5	Х		1,270	4,990	395	6,660	2.00	22.2	13.0	51.7	88.9	2,300
	"	6-7	Х		2,110	6,650	588	9,350	3.32	34.0	18.5	63.2	119	218
	"	9-10	Χ		388	2,710	189	3,290	<0.0998	2.33	3.07	10.7	16.1	988
	"	14-15	Х		<50.2	365	<50.2	365	<0.00101	<0.00101	0.0126	0.0659	0.0785	3,800
	"	19-20	Х		<50.3	326	57.1	385	<0.000998	<0.000998	<0.000998	<0.000998	<0.000998	1,350
	"	24-25	Х		<50.1	62.8	<50.1	62.8	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	199
	"	29-30	Х		<50.0	72.7	<50.0	72.7	<0.00101	<0.00101	<0.00101	0.0404	0.0404	208

Table 1
Permian Water Solutions
Kaiser SWD
Lea County, New Mexico

Sample ID	Sample	Sample	Soil	Status		TPH (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Date	Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SP-21	5/8/2019	0-1	Χ		993	10,500	2,100	13,593	0.0740	2.12	2.05	14.3	18.5	2,240
Inside Berm	"	2-3	Χ		10.6	445	109	565	<0.050	< 0.050	<0.050	0.241	<0.300	1,100
	5/13/2019	4-4.5	Х		<10.0	725	57.2	782	<0.050	0.076	<0.050	<0.150	<0.300	3,120
	"	5-5.5	Х		<10.0	215	<10.0	215	<0.050	<0.050	<0.050	<0.150	<0.300	2,200
SP-22	5/8/2019	0-1	Х		<10.0	64.0	52.9	117	<0.050	<0.050	<0.050	<0.150	<0.300	880
Inside Berm	=	2-3	Х		<10.0	32.0	16.4	48.4	<0.050	< 0.050	<0.050	<0.150	<0.300	752
	5/13/2019	3-3.5	Χ		-		-	-	-	-	-	-	-	720
	"	4-4.5	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	848
SP-23	5/8/2019	0-1	Х		593	12,800	2,390	15,190	<0.050	1.03	1.03	2.56	4.62	880
Inside Berm	5/14/2019	1-1.5	Χ		2,180	7,770	1,050	11,000	6.76	71.1	40.4	129	247	464
	•	2-2.5	Χ		97.7	662	48.8	809	1.06	5.98	5.38	17.6	30.0	3,680
	"	3-3.5	Χ		902	3,150	521	4,573	7.38	57.8	31.7	100	197	1,060
	"	4-4.5	Χ		2,760	9,000	1,170	12,930	14.2	112	50.7	150	327	2,760
BH-23	10/22/2019	0-1	Χ		407	3,250	258	3,920	0.0125	0.0446	0.0375	1.04	1.14	372
	=	2-3	Χ		664	3,060	209	3,930	0.0152	0.0333	0.0821	0.355	0.486	178
	=	4-5	Χ		1,050	4,150	338	5,540	0.394	0.374	0.232	1.02	2.02	55.9
	=	6-7	Χ		74.5	742	76.9	893	0.0108	0.307	0.400	1.02	1.73	39.2
	•	9-10	Χ		<49.9	<49.9	<49.9	<49.9	0.00949	0.0698	0.138	0.392	0.609	359
	=	14-15	Χ		63.9	672	78.3	814	0.00230	0.0821	0.128	0.491	0.703	3,960
	•	19-20	Χ		<50.2	<50.2	<50.2	<50.2	<0.000994	0.00456	0.00189	0.00794	0.0144	6,740
	"	24-25	Χ		<50.3	<50.3	<50.3	<50.3	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	3,200
	"	29-30	Χ		<50.0	<50.0	<50.0	<50.0	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	2,370
	"	34-35	Χ		<49.9	<49.9	<49.9	<49.9	<0.000994	<0.000994	<0.000994	<0.000994	<0.000994	1,330
	"	39-40	Χ		<50.1	<50.1	<50.1	<50.1	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	1,350
	-	44-45	Χ		<50.0	<50.0	<50.0	<50.0	<0.000986	<0.000986	<0.000986	<0.000986	<0.000986	941
	"	49-50	Х		<50.1	<50.1	<50.1	<50.1	<0.000996	<0.000996	<0.000996	<0.000996	<0.000996	362
	"	54-55	Х		<50.0	<50.0	<50.0	<50.0	0.00260	0.00806	0.00849	0.0294	0.0486	286
SP-24 (Inside Berm)	5/8/2019	0-1	Χ		595	11,000	2,060	13,060	1.49	12.1	2.69	16.2	32.5	1,060
BH-24	10/22/2019	0-1	Χ		561	4,810	411	5,780	0.00859	0.8070	1.32	5.05	7.19	598
	=	2-3	X		1,160	4,830	405	6,400	0.380	7.47	5.41	14.2	27.5	722
	=	4-5	Χ		92.8	827	119	1,040	0.0189	0.335	0.266	0.986	1.61	297
	=	6-7	Χ		<49.8	220	67	287	<0.000994	0.00366	0.00411	0.0128	0.0206	4,460
	"	9-10	Х		<49.8	166	<49.8	166	<0.000998	0.00218	0.00766	0.0276	0.0374	3,530
	"	14-15	Х		<49.8	289	<49.8	289	<0.000994	<0.000994	0.00849	0.0366	0.0451	598
	"	19-20	Χ		<50.2	227	<50.2	227	<0.00100	<0.00100	0.0109	0.0388	0.0497	581
	"	24-25	Х		<50.3	<50.3	<50.3	<50.3	<0.00100	<0.00100	<0.00100	0.00563	0.00563	494
	"	29-30	Х		<50.1	<50.1	<50.1	<50.1	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	247
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Table 1
Permian Water Solutions
Kaiser SWD
Lea County, New Mexico

Sample ID	Sample	Sample	Soil	Status		TPH (mg/kg)	1	Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Oampie ID	Date	Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SP-25	5/8/2019	0-1	Χ		2,440	12,100	1,690	13,790	9.63	68.7	35.1	79.0	192	4,880
Inside Berm	5/14/2019	1-1.5	X		1,610	5,200	944	7,754	2.14	32.7	25.7	64.9	125	4,320
	"	2-2.5	Χ		85.1	450	65.6	601	0.397	5.74	5.26	15.2	26.6	1,150
	"	3-3.5	Χ		18.9	150	19.0	188	0.052	0.729	0.825	2.42	4.03	2,440
	"	4-4.5	Χ		39.2	398	154	591	<0.050	0.313	0.430	1.23	1.97	2,960
	"	5-5.5	Χ		<10.0	552	242	794	<0.050	<0.050	0.098	0.234	0.332	1,360
BH-25	10/22/2019	0-1	Χ		<49.9	223	<49.9	223	0.0160	0.281	0.283	0.752	1.33	5,200
	"	2-3	Χ		1,220	3,730	289	5,240	0.6600	8.86	5.73	13.3	28.6	5,200
	"	4-5	Χ		1,140	3,820	303	5,260	6.40	58.6	38.6	90.0	194	4,510
	"	6-7	Χ		<50.1	<50.1	<50.1	<50.1	<0.000996	<0.000996	<0.000996	<0.000996	<0.000996	1,460
	"	9-10	Χ		<50.1	<50.1	55.7	55.7	<0.00102	<0.00102	<0.00102	0.0119	0.0119	1,470
	"	14-15	Χ		<50.1	<50.1	<50.1	<50.1	<0.00100	0.0374	0.0628	0.188	0.288	805
	"	19-20	Χ		<50.0	<50.0	<50.0	<50.0	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	563
	"	24-25	Х		<50.2	58.9	<50.2	58.9	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	349
SP-26 (Inside Berm)	5/8/2019	0-1	Χ		1,090	12,200	2,020	14,220	<0.050	1.34	1.33	4.02	6.69	640
BH-26	10/22/2019	0-1	Χ		795	4,560	405	5,760	<000994	<000994	<000994	<000994	<000994	8,630
	"	2-3	Χ		1,050	4,040	288	5,380	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	11,500
	"	4-5	Χ		1,280	4,860	386	6,530	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	7,370
	"	6-7	Χ		<50.1	428	62.9	491	0.00825	0.0797	0.0637	0.203	0.355	5,300
	"	9-10	Χ		<50.2	383	77.7	461	0.0149	0.151	0.109	0.380	0.655	3,060
	"	14-15	Χ		<50.3	<50.3	<50.3	<50.3	<0.000998	<0.000998	<0.000998	<0.000998	<0.000998	3,080
	"	19-20	Χ		<50.1	<50.1	<50.1	<50.1	<0.00101	<0.00101	<0.00101	0.00130	0.00130	769
	"	24-25	Χ		<50.3	<50.3	<50.3	<50.3	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	529
	"	29-30	Χ		<50.3	<50.3	<50.3	<50.3	<0.000998	<0.000998	<0.000998	<0.000998	<0.000998	347
	"	34-35	Х		<50.2	<50.2	<50.2	<50.2	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	325
SP-27	5/8/2019	0-1	Х		<10.0	14.5	<10.0	15.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,440
	"	2-3	Χ		<10.0	<10.0	<10.0	<10.0	<0.050	< 0.050	<0.050	<0.150	<0.300	1,340
	"	4-5	Χ		<10.0	938	244	1,182	< 0.050	<0.050	<0.050	<0.150	<0.300	448
	"	6-7	Χ		<100	5,680	1,170	6,850	<0.050	0.0550	0.342	0.779	1.18	208
1	"	9-10	Х		<10.0	80.6	<10.0	81.0	< 0.050	<0.050	<0.050	<0.150	<0.300	208
	"	14-15	Χ		<10.0	206	29.2	235	< 0.050	<0.050	<0.050	<0.150	<0.300	272
	"	19-20	Χ		<10.0	93.2	12.9	106	<0.050	<0.050	<0.050	<0.150	< 0.300	704
	"	24-25	Χ		<10.0	19.0	<10.0	19.0	<0.050	<0.050	< 0.050	<0.150	< 0.300	176
	"	29-30	Χ		<10.0	<10.0	<10.0	<10.0	< 0.050	<0.050	<0.050	<0.150	<0.300	128
	"	34-35	Χ		-	-	-	-	-	-	-	-	-	112
	"	39-40	Χ		-	-	-	-	-	-	-	-	-	80.0

Table 1
Permian Water Solutions
Kaiser SWD
Lea County, New Mexico

Sample ID	Sample	ate Depth (ft) In-Situ Removed GRO	TPH (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride			
oumpie ib	Date	Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SP-29	5/8/2019	0-1	Χ		<10.0	<10.0	<10.0	<10.0	<0.050	< 0.050	<0.050	<0.150	<0.300	1,070
	"	2-3	Χ		<10.0	<10.0	<10.0	<10.0	< 0.050	< 0.050	<0.050	<0.150	< 0.300	560
	"	4-5	Χ		-	-	-	-	-	-	-	-	-	160
	"	6-7	Χ		-	-	-	-	-	-	-	-	-	48.0
SP-30	5/8/2019	0-1	Χ		<10.0	<10.0	<10.0	<10.0	< 0.050	< 0.050	<0.050	<0.150	<0.300	5,120
	"	2-3	Χ		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,330
	"	4-5	Χ		-	-	-	-	-	-	-	-	-	1,490
	"	6-7	Χ		-	-	-	-	-	-	-	-	-	682
	"	9-10	Χ		-	-	-	-	-	-	-	-	-	704
	"	14-15	Χ		-	-	-	-	-	-	-	-	-	256
SP-31	5/8/2019	0-1	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
	"	2-3	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
	"	4-5	Χ		-	-	-	-	-	-	-	-	-	80.0
SP-32	5/8/2019	0-1	Х		<10.0	35.3	22.7	58.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
	"	2-3	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	512
	"	4-5	Х		-	-	-	-	-	-	-	-	-	832
BH-33	10/22/2019	0-1	Х		<49.8	<49.8	<49.8	<49.8	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	1,360
	"	2-3	X		<49.7	<49.7	<49.7	<49.7	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	781
	"	4-5	X		<50.1	<50.1	<50.1	<50.1	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	1,080
	"	6-7	X		<50.2	<50.2	<50.2	<50.2	<0.000998	<0.000998	<0.000998	<0.000998	<0.000998	772
	"	9-10	X		<50.2	<50.2	<50.2	<50.2	<0.000982	<0.000982	<0.000982	<0.000982	<0.000982	446
	"	14-15	Х		<50.1	<50.1	<50.1	<50.1	<0.000998	<0.000998	<0.000998	<0.000998	<0.000998	287
	"	19-20	Χ		<49.9	<49.9	<49.9	<49.9	<0.000984	<0.000984	<0.000984	<0.000984	<0.000984	399
BH-34	10/21/2019	0-1	Х		1,470	8,110	638	10,200	0.00130	0.0246	0.0423	0.133	0.201	290
	"	2-3	X		1,140	5,310	449	6,900	0.00256	0.0498	0.0643	0.202	0.319	522
	"	4-5	X		81.3	869	132	1,080	<0.00100	0.00337	0.00622	0.0198	0.0294	1,080
	"	6-7	Х		<50.2	165	55.9	221	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	112
	"	9-10	Х		<50.2	<50.2	<50.2	<50.2	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	209
	"	14-15	Χ		<50.2	<50.2	<50.2	<50.2	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	480
	"	19-20	Χ		<50.1	<50.1	<50.1	<50.1	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	2,440
	"	24-25	Χ		<50.3	<50.3	<50.3	<50.3	<0.00100	<0.00100	<0.00100	0.0102	0.0102	2,260
	"	29-30	Х		<50.2	<50.2	<50.2	<50.2	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	741
	"	34-35	Х		<50.0	<50.0	<50.0	<50.0	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	805
	"	39-40	Х		<50.2	<50.2	<50.2	<50.2	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	957
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Table 1
Permian Water Solutions
Kaiser SWD
Lea County, New Mexico

Sample ID	Sample	Sample	Soil	Status		TPH (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample 15	Date	Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH-35	10/21/2019	0-1	Χ		<50.1	<50.1	<50.1	<50.1	<0.000992	<0.000992	<0.000992	<0.000992	<0.000992	1,660
	"	2-3	Χ		<49.9	917	100	1,020	<0.000990	<0.000990	<0.000990	<0.000990	<0.000990	2,860
	"	4-5	Χ		<50.0	502	78.3	580	<0.000998	<0.000998	<0.000998	<0.000998	<0.000998	1,120
	"	6-7	Χ		<49.7	<49.7	<49.7	<49.7	<0.000994	<0.000994	<0.000994	<0.000994	<0.000994	3,340
	"	9-10	Χ		<49.8	<49.8	<49.8	<49.8	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	3,180
	"	14-15	Χ		<49.8	<49.8	<49.8	<49.8	<0.000998	<0.000998	<0.000998	<0.000998	<0.000998	3,990
	"	19-20	Χ		<50.2	<50.2	<50.2	<50.2	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	6,730
	"	24-25	Χ		<50.0	53.0	<50.0	53.0	<0.000998	<0.000998	<0.000998	0.00166	0.00166	1,790
	"	29-30	Χ		<49.8	<49.8	<49.8	<49.8	<0.000998	<0.000998	<0.000998	<0.000998	<0.000998	190
	"	34-35	Χ		<49.8	<49.8	<49.8	<49.8	<0.000986	<0.000986	<0.000986	<0.000986	<0.000986	523
	"	39-40	Χ		<49.8	<49.8	<49.8	<49.8	<0.000986	<0.000986	<0.000986	<0.000986	<0.000986	502
BH-36	10/21/2019	0-1	Х		1,210	7,730	691	9,630	<0.0101	0.135	2.57	10.8	13.5	5,900
	"	2-3	Χ		<50.1	588	122	710	<0.0996	1.30	1.14	13.4	15.8	7,660
	"	4-5	Χ		<50.3	<50.3	<50.3	<50.3	<0.00100	<0.00100	<0.00100	0.00311	0.00311	13,000
	"	6-7	Χ		<50.0	109	50.1	159	<0.00100	<0.00100	<0.00100	0.0184	0.0184	7,410
	"	9-10	Χ		<50.3	<50.3	<50.3	<50.3	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	2,060
	"	14-15	Χ		<50.2	<50.2	<50.2	<50.2	<0.00101	<0.00101	<0.00101	0.00186	0.00186	112
	"	19-20	Χ		<50.0	<50.0	<50.0	<50.0	<0.00100	0.00106	<0.00100	0.0143	0.0154	1,040
SP-37	1/13/2020	0-1	Χ		886	4,130	382	5,400	0.283	0.436	0.258	6.62	7.60	3,040
(Inside Berm)	"	2-3	Χ		1,170	3,230	301	4,700	0.642	21.20	7.33	21.5	50.7	3,200
	"	4-5	Χ		1,730	4,130	397	6,260	0.209	9.64	36.8	131	178	4,810
	"	6-7	Χ		<50.0	224	<50.0	224	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	4,930
	"	9-10	Χ		<49.9	77.3	<49.9	77.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	1,170
	"	14-15	Χ		<49.8	93.1	<49.8	93.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	542
	"	19-20	Χ		<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	144
	"	24-25	Χ		<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	49.0
SP-38	1/13/2020	0-1	Х		406	4,410	472	5,290	0.101	0.142	0.130	3.20	3.57	2,160
(Inside Berm)	"	2-3	Х		1,060	3,250	304	4,610	0.815	11.8	5.80	21.3	39.7	6,130
	"	4-5	Χ		1,550	5,330	486	7,340	1.19	15.5	9.86	24.5	51.0	6,120
	"	6-7	Х		<49.9	233	<49.9	233	<0.00198	<0.00198	0.00484	0.0240	0.0289	812
	"	9-10	Χ		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	877
	"	14-15	Χ		<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	943
	"	19-20	Χ		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	343
	"	24-25	Χ		<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	300
	"	29-30	Χ		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	200
	"	34-35	Χ		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	162

Photos





View Southwest - Area of SP-1



View South - Area of SP-2







View North – Area of SP-3



View West - Area of SP-4







View South - Area of SP-5



View East - Area of SP-6







View East - Area of SP-7



View Northwest - Area of SP-8







View Northwest - Area of SP-9



View West – Area of SP-10





View South - Area of SP-11



View North – Area of SP-12







View Northwest – Area of SP-13



View Southwest - Area of SP-14







View West – Area of SP-15



View East - Area of SP-16







View Northwest – Area of SP-17



View South - Area of SP-18







View South - Area of SP-19



View South - Area of SP-20







View North – Area of SP-21



View South - Area of SP-22







View East – Area of SP-24



View North - Area of SP-25



View West – Area of SP-26



View West - Area if SP-27







View North - Area of SP-29



View South - Area of SP-30







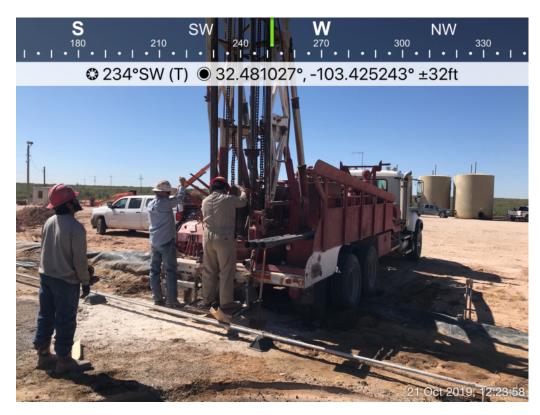
View North - Area of SP-31



View North – Area of SP-32







View Southwest – Area of BH-17



View Northeast – Areas of BH-18 and BH-19







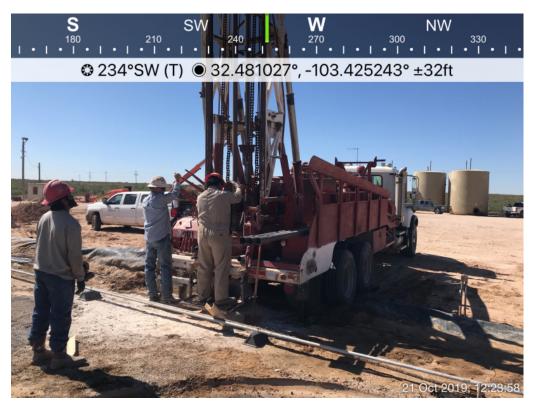
View Southeast – Area of BH-20



View Southwest - Areas of BH-23, BH-24, BH-25, and BH-26







View Southwest – Area of BH-17



View Northeast – Areas of BH-18 and BH-19







View Southeast – Area of BH-20



View Southwest - Areas of BH-23, BH-24, BH-25, and BH-26







View South - Areas of BH-33 and BH-34



View South - Area of BH-35





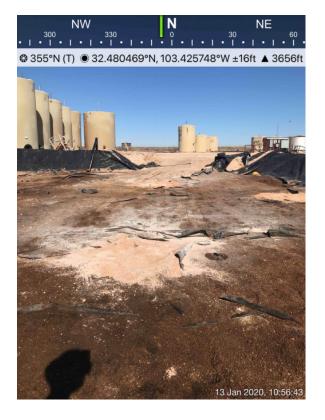
View Southeast – Area of BH-36



TETRA TECH



View South - Areas SP-37 and SP-38



View North – Areas of SP-37 and SP-38

Appendix A

Form C-141

Revised August 8, 2011

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

			Rele	ease Notific	ation	and Co	rrective A	ction			
						OPERA	ΓOR		X Initia	al Report 🔲 Final Repor	
	mpany P	yote Water	System	1s, LLC			y Burton Ope			iger for NM	
Address		Illinois STI	2 950 N	Midland TX		Telephone N		32~448			
Facility Nar	ne				1	acility Typ	e Production	<u>n Wate</u>	<u>r</u>		
Surface Ow	ner Pyote	Water Sy	stems,L	LC Mineral O	wner		Pyote	;	API No	. 30~025~02538	
					TION	OF REI	LEASE				
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/We	st Line	County	
Е	13		34	10 ft	N/S	8				LEA COUNTY	
F	15	25	-	titude 32.4808	55153	425agitud	le -103.425	630765	566		
						- ° OF RELI					
Type of Relea	ase 20 bl	ols product	tion wa		OIL			ols V	olume F	Recovered 20 bbls	
Source of Re	leaseVac f	ruck						$e_{1/14/1}$	ate and		
C CD 1											
	I D		Yes _] No ∐ Not Red	quired			Jerry B	urton N		
								1 337 4			
Was a Water	course Read	_	Yes 🖸	No No			flume Impacting t	he Waterc	ourse.		
If a Watercon	ırse was İm	nacted Descr	ibe Fully '	*							
	irse was iii	ipucicu, Deser	ioe i uiiy.								
попс											
Describe Cau	se of Probl	em and Reme	dial Actio	n Taken.*							
		the sumps~	/ he faile	ed to suck it out v	when tl	ney are inst	ructed to do on	each loa	d. It is p	posted as well, at the sign in	
ticket area a	also										
Describe Are	a Affected	and Cleanup A	Action Tal	ken.* The clean u	ip area	or ckhoe brou	oht in caliche	and the re	emedita	tion is done. Load lines 3&4	
										n the snow we have had since	
			1				•			go out several times to do thi	
for loade lin	10381	•									
										suant to NMOCD rules and	
-	-	-	-				-			eases which may endanger ieve the operator of liability	
										r, surface water, human health	
or the environ	nment. In a	addition, NMC	OCD accep							ompliance with any other	
federal, state,	or local la	ws and/or regu	ılations.		1			GEDIA	TIOL	DHHGION	
	. 7	,					OIL CON:	SERVA	HON	DIVISION	
Signature:	Temp En	ofa_						/// 1			
	Jerry F	Burton			Ä	Approved by	Environmental S	pecialist:	11/		
Printed Name	e: '										
Title: Open	cations N	Aanager fo	or NM		A	Approval Dat	e : 1/29/15	Ex	piration	Date: 3/29/15	
F-mail Addre	audra	a@pyotew	atersyst	tems.com		Conditions of	· Annroyal:				
		<u> </u>	<u> </u>			Zonamons of	Appiovai.			Attached	
Date: 1~23~				: 432~448~49	17	Site sam	ples required	Delini	ate	1RP-3512	
Attach Addi		ets If Necess	ary				ediate as per				
							carace as per	111100	_	294873	
						guides.	Smal C 1411	2		nTO1502927174	
						Submit I	inal C-141 by	y 3		-	

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

> pKJ1512042374 nKJ1512041707

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa	Fe, NM 87	505				
Release Notificat	tion and C	orrective A	ction			
	RATOR		occ Initia	ul Ren	ort 🗆	Final Repor
Name of Company PYOTE WATER SYSTEMS, LLC	Contact				ions Manag	
Address 400 W. Illinois Ste 900	Telephon	e No. 432.44	18.4917 o	r 432.	.448.5323(A	udra)
Facility Name Kaiser SWD		ype SWD-p			100000000000000000000000000000000000000	
					20 025 03530	
Surface Owner Pyote Water Systems, LLC Mineral Owner	r Pyote Water Sy	stems, LLC		API No.	30-025-02538	
LOCA	TION OF RELI	EASE				
	orth/South Line	Feet from the	East/Wes	t Line	County Lea	COUNTY
F 13 21 34 125 ft			E/W			
			1			
Latitude	Longitud	e	103			
R.C. A. TV	DE AEDELE	A C E				
Type of Release; production water	Volume o	ASE f Release 100BBL	LS V	olume I	Recovered 100 I	BBLS
Source of Release	Date and l	lour of Occurren	ice D	ate and	Hour of Discov	
Vac truck (unknown due to no camera's) hit load line 3	4/24/2015			/24/15	2:35 am	12
Was Immediate Notice Given X Yes No Not Required	II YES, I	Whom? Jerry B	sunon			
By Whom? Unknown driver (575)-390-3836	Date and I	HOUR; 4/24/201.	5 2:35 am		<u></u>	<u> </u>
Was a Watercourse Reached?	If YES, V	olume Impacting	the Waterco	ourse.		
Yes *** No***		CENT	<u> </u>			
If a Watercourse was Impacted, Describe Fully.*	···	RECEIVE	D			
Accorded to the second of the	В	y OCD Disti	rict 1 at	11:10	0 am, Apr 3	30, 2015
Describe Cause of Problem and Remedial Action Taken.* unkno at 2:35 am (575)390-3836 in the morning, upon his arrival he notice been hit. He did not see this happen at the Kaiser						
Describe Area Affected and Cleanup Action Taken.* Area affected was the pad only at the location. Jerry and his pumper (backhoe) 2 vac trucks one from Big Buck Services and One from Big		damages themse	elves, remed	lial wor	k done by L&J	services
I hereby certify that the information given above is true and complete regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remed or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	se notifications a y the NMOCD m diate contaminat	nd perform corre- narked as "Final Ri ion that pose a the	ective actions Report" does reat to grour	s for relations for relations in the second	eases which may ieve the operator, r, surface water,	y endanger r of liability human health
16 112-1		OIL.CO	ONSERVAT	TION D	IVISION	
Signature: Printed Same: Jerry Burton	Approved by	Environmental S	Snecialist	Kel	lul	12
Aitle: NM Operations Manager for Pyote Water systems, LLC		te: 04/30/2015		iration	Date: 07/30/201	5
jerry@pvotewatersystems.com or audra@pyotewatersystems.com E-mail Address:	Conditions o			autivii .		
4-26-2015		equired. Delineat	te and remed	diate	Attached	294873
Date: 4/26/15 Phone:432.448.4917	as per MNOC	D guides. Geotag			1RP 3621	:
Attach Additional Sheets If Necessary	remediation re	eauired.				

Received by OCD: 8/28/2023 2:02:22 PM

Name of Company Pyote Water Systems, LLC

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mex

RECEIVED Energy Minerals and Natura By JKeyes at 7:43 am, Jun 09, 2016

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

nJXK1616127644 pJXK1616127747

Initial Report

Page 140 of 1449

Final Report

Release Notification and Corrective Action

OPERATOR

Contact Jerry Burton

Address 400	W Illinois Ste	900 MIDL	AND 1	ΓX 79701	Telephone No. 432-448-4917 Facility Type production Water								
Facility Name	Kaiser S	wd				Facility Typ	e production	on Water					
Surface Owner	urface Owner STATE Mine Mine Letter Section Township Range Feet from 21s Latitude 32.					STATE		API No	. 30-025-02538				
				LOCA	TIO	N OF DE	EACE	<u>.</u>					
Unit Letter Se	ection Town	nchin Rai	nge			N OF REI	Feet from the	East/West Line	County				
1		•	_	reet nom the	North	/ South Line	rect from the	East/West Line	LEA COUNTY				
' '	3 213	34	E						LLA COUNTT				
			Lati	tude 32.4808	3578-	Longitud	le 103.42565	92 nad 83					
				NAT	URE	OF REL	EASE						
Type of Release			s while	driver was unloa	ading		Release 1050 BE		Recovered 1050 bbls				
		water					Iour of Occurrenc	ce 5-17-16 Date and	Hour of Discovery 4 PM				
Was Immediate N	Notice Given?	Ves	. n	No. □ Not R	eauired	If YES, To							
D THE O LINE	ZNIOVA/NI DDIV/I		• Ц	No LI Not Ro	cquircu	Date and Hour 5/17/16 4PM							
		EK					olume Impacting t						
was a watercour	ise Reaction!	Ye	es 🗌	No				me watercourse.					
If a Watamaaamaa	rrian Immantad					1050 BL	S						
ii a watercourse	was impacted.	, Describe r	ully.										
fire melted pa	arts of the I	liner,wate	er got	under the lin	er								
		•	Ū										
Describe Cause o	of Problem and	l Remedial	Action	Taken *									
Describe cause o	or i rootein and	i Kemediai i	CHOIL	raken.									
					less t	han 2 bbls	breeched con	tainment. calle	d vac truck out to empty				
containment a	after the fire	e dept pu	t out	the fire .									
Describe Area Af	ffected and Clo	eanup Actio	n Take	n.*									
		-					6 114 1						
load side con	itainment h	ave clear	n up c	rew cleaning	g up a	nd disposir	ig of old tanks	and cat walk t	o sundown				
I hereby certify th	hat the informa	ation given a	above i	s true and comp	lete to	the best of my	knowledge and u	inderstand that purs	suant to NMOCD rules and				
regulations all op	erators are req	quired to rep	ort and	l/or file certain r	elease 1	notifications a	nd perform correc	tive actions for rel	eases which may endanger				
				ince of a C-141	тероп	ioes not renev	e the operator or i	responsibility for c	omphance with any other				
							OIL CONS	SERVATION	DIVISION				
	Jerry Burt	LOM					212 2311						
Signature:	jerry burl	JUPI .						Nami	& lhyer				
Printed Name: J	Jerry Burtor	า				Approved by	Environmental S ₁	pecialist:					
							08/09/2016						
Title: NM Ope	erations Mg	<u> r</u>				Approval Da	te: 06/09/2016	Expiration	Date:				
E-mail Address:	jerry@pyd	otewaters	ysten	ns.com		Conditions of			Attached				
Date: 5-18-201	<u></u> 16		1	4324484917			les only. Delineat	te and remediate	1RP 4305				
* Attach Addition			none:	TUZ##U## 17	<u> </u>	per NMOCD guidelines. 1RP 4305							

District I
1625 N: French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 Form C-141 Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505 Release Notification and Corrective Action **OPERATOR** ☐ Initial Report Final Report Name of Company: Cambrian Management, LTD. Contact: Mike Anthony Telephone No. 432-631-4398 Address: 415 W. Wall St. Suite 900 Facility Name: Kaiser SWD #9 Facility Type: SWD Mineral Owner: State API No. 30-025-02538 Surface Owner: State LOCATION OF RELEASE Unit Letter Section Feet from the North/South Line Feet from the East/West Line County Township Range **21S** 34E 1980 North 1980 West Lea Latitude 32.4808578 Longitude -103.4256592 NATURE OF RELEASE Volume of Release: Unknown Volume Recovered: 0 Type of Release: Produced Water Date and Hour of Occurrence: Source of Release: Frac tanks Date and Hour of Discovery: Was Immediate Notice Given? If YES, To Whom? ☐ Yes ☐ No ☒ Not Required By Whom? Date and Hour: Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* Due to a lightning strike on the tank battery fluid was transferred into temporary frac tanks to continue operations during reconstruction. The frac tanks leaked resulting in the release of an unknown quantity of fluid. The frac tanks have been removed from the location. Describe Area Affected and Cleanup Action Taken.* The frac tanks were set on the north side of the affected battery. The fluid from the leak flowed south around the battery berm and continued southsouthwest into the pasture. Soil samples will be taken in preparation for a remediation work plan. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Mile anthon Signature: trusten Lynch Approved by Environmental Specialist: Printed Name: Mike Anthony Approval Date: 11/23/2016 Expiration Date: 01/23/2017 Title: Field Operations Superintendent Conditions of Approval: E-mail Address: manthony@cambrianmgmt.com Attached

Please see attached Directive

* Attach Additional Sheets If Necessary

Phone: 432-631-4398

Date: 11/15/16

nKL1632848695 pKL1632848917

1RP 4525

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
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1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

pOY1730059151

nOY1730058924

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Rel	ease Notifica				ctive A	ction		
N CO	lame of Company Cambrian Management, Ltd. address P.O. Box 272, Midland, TX 79702 acility Name Kaiser State SWD					OPERA				/ Initia	al Report
				Contact Mi			200				
			X 19102	2		Telephone Facility Ty					
		State SVID		T.			pc Sait	. Water D	ispusai		
Surface Ow	ner State			Mineral Ov	vner S	tate				API No	. 30-025-02538
						OF RE	LEAS	SE			
Unit Letter	Section	Township	Range	Feet from the	North/S	South Line	Feet	from the	East/W	est Line	County
F	13	21S	34E								Lea
			Latitud	le 32.48008578	Lo	ngitude_	-103.42	256592	NAD8	33	
				NATI	JRE	OF REL					
Type of Rele	ase Produc	ed Water & Cr	ude Oil			Volume o 50 bbls	f Releas	se		Volume I 0 bbls	Recovered
Source of Re	lease		ACAL CO.				Hour of	Occurrence	ce		Hour of Discovery
				Unknown		2.00,750,707			017, 12:35 PM		
Was Immedi	ate Notice (Yes 🔽	No Not Req	juired	If YES, T					
By Whom?	N/A					Date and	Hour N/	A			
Was a Water	course Read			100		If YES, V	olume I	mpacting	the Wate	rcourse.	
			Yes 🔽				RF(CEIVE	בח		
If a Waterco	arse was Im	pacted, Descr	ibe Fully.	*							0 407 0047
Describe Car	ise of Probl	em and Reme	dial Actio	n Taken.*			By C	IIIVIA	yu at	4:17	pm, Oct 27, 2017
					ntiy ur	ider inves	stigatio	n. No rei	mediai	action na	as been taken at this point.
Describe Are	a Affected	and Cleanup A	Action Ta	ken.*							
affected a	rea inside	the berms	measu								e SWD battery. The rea will be conducted in
regulations a public health should their or the enviro	Il operators or the envi operations h nment. In a	are required to ronment. The nave failed to	o report a acceptan adequatel OCD acce	nd/or file certain rel ce of a C-141 repor y investigate and rel	lease no t by the mediate	otifications NMOCD r contamina	and perf narked a tion that	form correct as "Final R t pose a thi	ctive acti deport" d reat to gr	ons for rel oes not rel ound wate	suant to NMOCD rules and eases which may endanger ieve the operator of liability r, surface water, human health ompliance with any other
Signatura	Denise	Jones		4-1 +		OIL CONSERVATION DIVISION					
Signature: Printed Nam		oberson (as	•	of Cambrian Mg	mt.)	Approved by Environmental S			specialist		
Title: Owne	r					Approval D	ate: 1	0/27/2	017	Expiration	Date:
	E-mail Address: todd@trinityoilfieldservices.com						of Appro	oval:		L	Attached [5]
Date: 10/2:	3/2017		Phone	: (575) 631-312	9	see atta	ched	directiv	ve		Attached LN
		ets If Necess									

1RP-4855

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe NIM 87505

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

				Sa	illa I C	, INI	VI 0/3	05							
			Rele	ease Notific	atior	an	nd Co	rre	ctive A	ction	l				
						OP	ERA	ΓOR			√ I	nitia	l Report		Final Report
		ambrian Man					act Mik								
Address P. Facility Nan		2, Midland, T	X 79702	2					32)631-43 It Water D						
		State SVVD						C Sai	it vvaler D	isposai	,				
Surface Ow	ner State			Mineral O	wner S	State					API	No	. 30-025-0)2538	
				LOCA	OIT	N O	F REI	LEA	SE						
Unit Letter	Section	Township	Range	Feet from the	North/	South	n Line	Feet	from the	East/V	West Li	ne	County		
F	13	21S	34E										Lea		
		•	Latitud	le 32.4800857	'8 L	ongit	tude -	103.4	256592	NAD	83				
						_	RELI	-							
Type of Relea	ase Produc	ed Water		11711	CILL	Vo	lume of						lecovered		
Source of Re	leace	ed water					bbls	Journa	f Occurrence	20	10 b		Hour of Dis	covery	
Source of Re	Seal o	on pump				Unknown 1/31/2018, 10:00 AM									
Was Immedia	ate Notice (Yes 🔽	No Not Re	equired		YES, To I/A	Who	m?						
By Whom?	N/A					Date and Hour N/A									
Was a Water	course Read					lf'	YES, Vo	olume	Impacting	the Wate	ercours	e.			
			Yes 🗸			RECEIVED									
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.	*											
Describe Cau	se of Probl	em and Reme	dial Actio	n Taken.*				By	Olivia	Yu a	t 9:	34	am, F	eb 0	7, 2018
The seal of	n a pump	failed. A v	acuum t	ruck was utilize	ed to re	ecov	er free	-stan	ding liqui	d. The	seal	was	repaired	durin	g initial
response a	activities.														
Describe Are	a Affected	and Cleanup	Action Tal	cen.*											
				ry and seconda											
				ed approximat											
		se on 10/18 ∟O guidelin		ee 1RP-4855)	. Reme	ediai	lion of	ine in	прастеа а	area wi	iii be c	ono	iuctea in	accor	ance with
111110000		zo galao													
				e is true and comp											
				nd/or file certain re ce of a C-141 repo											
should their o	perations h	nave failed to	adequately	investigate and r	emediat	e con	itaminati	ion tha	it pose a thi	reat to gi	round v	vater	, surface w	ater, hu	man health
		addition, NM(ws and/or regi		otance of a C-141	report d	oes n	ot reliev	e the	operator of	respons	ibility 1	tor co	ompliance	with an	y other
	,	_						0	IL CON	SERV	ATIO	NC	DIVISION	<u>NC</u>	
Signature:	Doni	L Jan	6									13	4_		
		. 0				Appr	oved by	Envir	onmental S	Specialis	it:	U			
Printed Name	e: Denise	Jones			-								\forall —		
Title: Regul	atory Ana	al <u>y</u> st			_	Appr	oval Da	te: Z	/7/2018		Expira	tion	Date:		/
E-mail Addre	ess: djones	s@cambria	nmgmt.c	om		Cond	ditions o	f Appr	oval:				Attached	ı √	
Date: 2/	14/18			: (432) 620-91	81	see	e atta	che	d direct	ive					
* Attach Addi	tional She	ets If Necess	sary			1RF	P-496	0	-OV	12029	00.40	07			
									In IV		× <td></td> <td></td> <td></td> <td></td>				

pOY1803834550

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Rele	ease Notifi	catio	n and Co	orrective A	Action	1			
						OPERA			☐ Initi	al Report		Final Repo
				, Ltd.		Contact Mi						
							No . 432-631-4	1398				
Facility Nar	of Company Cambrian Management, Ltd. ss PO Box 272, Midland TX 79702 y Name Kaiser State SWD se Owner State Mine Ltter					Facility Typ	e SWD					
	Latitude Section Township Range 34E											
Surface Ow	e of Company Cambrian Management, Ltd. ess PO Box 272, Midland TX 79702 ity Name Kaiser State SWD Company Cambrian Management, Ltd.					State			API No	. 30-025-0	02538	
	of Company Cambrian Management, Ltd. Ses PO Box 272, Midland TX 79702 ty Name Kaiser State SWD The section Section Township Range 13			LOC	ATIO	N OF REI	LEASE					
Unit Letter			_	Feet from the	North	n/South Line	Feet from the	East/V	Vest Line	County		
F	13	218	Township 21S Range 34E Feet from the 34E Latitude 32.48085 NA' I Water ad ven? Yes X No Not Ro ed? Yes X No Not Ro acted, Describe Fully.* In and Remedial Action Taken.* off – nipple was replaced							Lea		
			Latitud	1e 32.48085	78 _I	ongitude -1	03.425659	2 _{NAD}	83			
						OF REL	EASE					
Type of Rele	ase Produc	ed Water					Release 150 bb	ols	Volume l	Recovered	150 bbls	
						Date and H	Iour of Occurren			Hour of Dis		
Waa I 1'	oto NI-4' '	Cirrow 9				06/20/2018 If YES, To			06/20/20	18 10:00A	M	
Was Immedi	ate Notice		Yes X	No Not Re	equired	If YES, Io	Whom?					
By Whom?						Date and H	Iour					
Was a Water	course Rea	ched?				If YES, Vo	olume Impacting	the Wate	ercourse.			
] Yes X	No								
If a Watercou	ırse was Im	pacted, Desci	ribe Fully.	*								
Describe Cau	ise of Probl	lem and Reme	dial Actio	n Taken.*								
Nipple on we	ellhead brok	ke off – nipple	was repla	iced								
11		11	1									
Describe Are	a Affected	and Cleanup	Action Tal	cen.*								
					l up. Th	nis was on top	of a previous spi	ill that wa	as already i	eported and	is in the	process to
be remediate	d.											
should their	perations l	nave failed to	adequately	investigate and	remedia	ite contaminati	on that pose a th	reat to g	ound wate	r, surface wa	ater, hum	an health
				otance of a C-141	report	does not reliev	e the operator of	f respons	ibility for c	ompliance v	with any	other
federal, state,	, or local la	ws and/or reg	uiations.				OIL CON	ICEDV	ATION	DIVISIO)NI	
							OIL CON	1DDK V		ן אטואיטר	<u> 711</u>	
Signature:									\varkappa	\vdash		
Printed Name	e: Denise J	ones				Approved by	Environmental	Specialis	t: UU	C		
							7/31/201	8				
Title: Regul	atory Anal	yst				Approval Da	te: 1/3//201	<u>- ا</u>	Expiration	Date:		
E-mail Addre	ess: <u>djones</u>	@cambrianm	gmt.com			Conditions of	f Approval:			Attached	/	
D . 0.2.22	2010	D.1				,	tached dire	ctive		Анаспес	ı <u>U</u>	
Date: 06/21/	2018	Phone	:						<u></u>	2000		
		14 18 0 8 8 8 8 8				1RP-5139		pCH'	182123	9860		
eleased to In	naging: 9.	/1/2023 2:5.	5:43 <i>PM</i>			nCH1821	239639					

Form C-141 Revised April 3, 2017

Received by OCD: 8/28/2023 2:02:22 PM

<u>District 1</u>
1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

			Rele	ease Notific	ation	and Co	rrective A	ction	l	
						OPERA	TOR		X Initia	al Report
Name of Company Cambrian Management, Ltd						Contact Andy Rickard				
						No. 432-620-91	81			
Facility Name Kaiser State SWD						Facility Typ	e SWD			
Surface Ov	vner State			Mineral C	wner S	tate			API No	. 30-025-02538
				1000		V X 7 X 7	EACE		1	
Unit Letter	Section	Township	Range	Feet from the		OF RE	Feet from the	Foot/	West Line	County
			North	South Ellic	1980	West	vest Line	Lea		
			Latitu	de 32.480938 N	Lo	ngitude -10	3.425227	NAD8	3	
				NAT	URE	OF REL				
Type of Rele							Release 200 Bb			Recovered 200 Bbls
Source of Ro	elease Valv	e				Date and I 08/06/2013	Hour of Occurrence	ce		Hour of Discovery 18 10:00AM
Was Immed	iate Notice	Given?				If YES, To			08/00/20	10 10,00AW
A con continue	2 22 F 07 MARK		Yes 🗌	No 🗌 Not Re	quired	Christina I				
By Whom?							Hour 08/06/2018			
Was a Water	rcourse Rea		Yes X	No		If YES, Ve	olume Impacting	the Wate	ercourse.	
If a Waterco	urse was In	npacted, Descr	ibe Fully.	*		REC	EIVED			
						By C	livia Yu at	1:48	3 pm, A	Aug 07, 2018
Describe Ar	ea Affected	and Cleanup	Action Ta	rmers to lower p ken.* th plastic was affe			vacuumed up.			
I hereby cert regulations a public health should their or the enviro	tify that the all operators or the envionerations on the contractions of the contracti	information g are required to ironment. The have failed to	iven abov to report a e acceptan adequatel OCD acce	e is true and comp nd/or file certain r ce of a C-141 repo y investigate and r	elete to the elease nort by the emediat	ne best of my otifications a e NMOCD me e contaminat	knowledge and und perform correlarked as "Final Rion that pose a thi	ctive act deport" of reat to g	ions for rel loes not rel round wate	suant to NMOCD rules and eases which may endanger ieve the operator of liability r, surface water, human health ompliance with any other
-		^					OIL CON	SERV	ATION	DIVISION
Signature:	Danie	a Done	0							
						Approved by Environmental Specialist:				
Title: Regulatory Analyst						Approval Date: 8/7/2018 Expiration Date:				Date:
E-mail Add	rece: diana	@cambrianm	amt com			Conditions o	f Approval:			
D-man Addi							spect liner in o	niestic	n Provid	Attached
Data: 00/06/2010 Dhana: 422 620 0101					01		th a concise re	-		
Attach Add	itional She	ets If Necess	sary				with affirmation	•		
nOY1821	950108	/Oa	/18219	050272	а	nd will cor	ntinue to conta	ain liqu	ids.	1RP-5149
0/1/2022 2 77 /2 PM					At least one photo must demonstrate the entire facility is lined.					

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Rele	ease Notific	cation	and Co	rrective A	ction		
						OPERATOR X Initial Report Final Report				
	Name of Company Cambrian Management, Ltd					Contact Mr. Mike Anthony				
Address PO Box 272, Midland, TX 79702							No. 432-631-43	398		
Facility Name Kaiser State SWD]	Facility Typ	e SWD			
Surface Ow	mer State			Mineral (Owner S	State		API	No. 3	0-025-02538
				LOC	ATION	OF RE	LEASE			
Unit Letter F	Section 13	Township 21S	Range 34E	Feet from the 1980		South Line	Feet from the 1980	East/West Lin West	1000	ounty
			Latit				03.4252271	NAD83		
T CD -1-	D. J.	- 1 W/-4		NA	UKE	OF REL		1 17 1	n	1 500 DII
Type of Rele Source of Re					_		Release 500 Bbl			overed 500 Bbls ur of Discovery
Source of Ice	nease Onio	au Taiks				The second control of	3 10:00AM			11:00 AM
Was Immedi	iate Notice (Yes 🔲	No ☐ Not Re	equired	If YES, To				
By Whom?	Mike Antho	ny				Date and I	Hour 12:00 PM 0	08/17/2018		
Was a Water		ched?	Yes X	No		If YES, Vo	olume Impacting	the Watercourse	e.	
needed. Describe Are	ea Affected	and Cleanup	Action Tal	ken.*						repaired or replaced as
up.										
regulations a public health should their or the enviro	all operators or the envi operations h onment. In a	are required to ronment. The nave failed to	o report a acceptan adequately OCD accep	nd/or file certain ce of a C-141 rep y investigate and	release no ort by the remediate	otifications a e NMOCD m e contaminat	nd perform correct parked as "Final R ion that pose a thr	ctive actions for eport" does not eat to ground w	r release t relieve vater, su	nt to NMOCD rules and es which may endanger e the operator of liability urface water, human health pliance with any other
_		_				OIL CONSERVATION DIVISION				IVISION
Signature: James James						Approved by Environmental Specialist:				
Printed Name: Denise Jones						Approved by	Environmental S	pecialist:	T	
Title: Regulatory Analyst						Approval Date: 8/21/2018 Expiration Date:				
E-mail Addr	ess: djones(@cambrianmg	mt.com			Conditions o	f Approval:			Attached
	3/17/2018	ata IENI		Phone:432-620-91	01		iner in question			
Attach Additional Sheets If Necessary NOY1823336566 POY1823336912 Pleased to Imaging: 9/1/2023 2:55:43 PM					i	NMOCD with a concise report of the inspection with affirmation the liner has and will continue to contain liquids. 2) Dated photo documentation of liner.				

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State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NCH1834760902
District RP	1RP-5273
Facility ID	
Application ID	pCH1834761047

Release Notification

Responsible Party

Responsible Party Permian Water Solutions, LLC Contact Name Dale Glosson Contact email dale@permianws.com					OGRID 373626			
					Contact Telephone 432-894-3636			
					Incident # NCH1834760902 KAISER STA			
Contact mai	ling address	PO Box 2106,	Midland, TX 79	702		@ 30-025-02538		
atitude 32.4	480938				gitude _	-103.425227		
			(NAD 83 in	decimal degrees t	o 5 decin	mal places)		
Site Name 1	Caiser State	SWD		Site	Type	Salt Water Disposal		
Date Release	Discovered	11/2/18		API	# (if app	plicable) 30-025-02538		
Unit Letter	Section	Township	Range		Coun	nty		
F	13	218	34E	Lea				
	Materia				110	justification for the volumes provided below)		
Crude Oi		Volume Releas	ed (bbls) 20		Volume Recovered (bbls) 16			
Produced	Water	Volume Releas	ed (bbls)			Volume Recovered (bbls)		
Is the concentration of dissolved chlorid produced water >10,000 mg/l?					de in the Yes No			
_ Condensa	te	Volume Release	ed (bbls)		Volume Recovered (bbls)			
☐ Natural Gas Volume Released (Mcf)				Volume Recovered (Mcf)				
Other (describe) Volume/Weight Released (provide unit			de units)		Volume/Weight Recovered (provide units)			
Cause of Rele	ease Oil ski	m tank overflow	; all fluids conta	ained within c	ontaini	ment berm		

Received by OCD: 8/28/2023 2:02:22 PM State of New Mexico
Page 2 Oil Conservation Division

Incident ID NCH1834760902

District RP 1RP-5273

Facility ID

Application ID pCH1834761047

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
Glosson called District	notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, Dale I office @ 11:25 am on 11/2/18, was transferred to Christina Hernandez, Left voicemail and call back called back later in the afternoon and the report was made.
	Initial Response
The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.
	as been secured to protect human health and the environment.
	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☐ All free liquids and re	ecoverable materials have been removed and managed appropriately.
has begun, please attach	IAC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
regulations all operators are public health or the environr failed to adequately investig.	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have atte and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws Title: Creaming Manager
OCD Only RECI	EIVED
Received by: By CH	ernandez at 4:56 pm, Dec 13, 2018

Received by OCD: 8/28/2023	2:02:22 PM
Form C-141	State of New Mexico
Page 3	Oil Conservation Division

	Page 149 of 1449
Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

 $This information \ must be provided \ to \ the \ appropriate \ district \ of fice \ no \ later \ than \ 90 \ days \ after \ the \ release \ discovery \ date.$

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)				
Did this release impact groundwater or surface water?	☐ Yes ☐ No				
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No				
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No				
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No				
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No				
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No				
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No				
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No				
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No				
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No				
Are the lateral extents of the release within a 100-year floodplain?					
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☐ No				
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.					
Characterization Report Checklist: Each of the following items must be included in the report.					
Characterization Report Checklist: Each of the following items must be included in the report. Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody					

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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	Page 150 of 14	49
Incident ID		
District RP		
Facility ID		
Application ID		

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.					
Printed Name:	Title:				
Signature:	Date:				
email:	Telephone:				
o con o . I					
OCD Only					
Received by:	Date:				

Received by OCD: 8/28/2023 2:02:22 PM Form C-141 State of New Mexico Page 5 Oil Conservation Division

	Page 151 of 1449
Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must b	e included in the plan.					
 □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation points □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC □ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 						
Deferral Requests Only: Each of the following items must be con-	nfirmed as part of any request for deferral of remediation.					
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.						
Extents of contamination must be fully delineated.						
Contamination does not cause an imminent risk to human healt	h, the environment, or groundwater.					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.						
Printed Name:	Title:					
Signature:	Date:					
email:	Telephone:					
OCD Only						
Received by:	Date:					
☐ Approved	Approval					
Signature:	<u>Date:</u>					

Appendix B

Water Well Data Average Depth to Groundwater (ft) Permian Water Solutions - Kaiser SWD

	20 Sc	uth	34	East		
6	5	4 125	3	2	1	6 56
7	8	9	10	11	12	64 7
18	17 1 28	16	15	14	13	18
19	140	04	00	150	0.4	10
19	20	21	22	23	24 270	19
30	29	28	27	26	25	30
31	32	33	34 82	35	36	31 6
	21 Sc	outh	33	East		
6	5	4	3	2 79	1	6

	20 Sc	uth	35		
6 56	5 64	4	3	2	1
7	8	9	10	11	12 49
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31 65	32	33 89	34	35	36

	4	3	2	1
8			92	40
	9	10	11	12
3	38		32	29
7	16	15	14	13
			45	
0	21	22	23	24
9	28	27	26 1 <mark>06</mark>	25
			170	
2	33	34	35	36
70			122	
	3 7 0	9 38 38 7 16 0 21 9 28 2 33	9 10 3 38 7 16 15 0 21 22 9 28 27 2 33 34	9 10 11 3 38 32 7 16 15 14 45 21 22 23 9 28 27 26 106 170 170 2 33 34 35

	21 Sc	21 South 33 East					
6	5	4	3	2 79 1 07	1		
7	8	9	10	11 150	12		
18	17	16	15	14	13		
19	20	21	22	23	24		
30	29	28 179	27	26	25		
31	32	33 180	34	35	36		

	21 Sc	outh	34	East	
6	5	4 95	3	2	1
7	8 120	9	10	11	12
18	17	16 105	15	14	13 100
19	20	21 128	22	23	24
30	29	28 135	27	26	25
31	32	33	34	35	36

	21 So	1 South 35 East					
6	5	4	3	2	1		
7	8	9	10	11	12		
18	17	16	15	14	13		
19	20	21	22	23	24		
30	29	28	27	26	25		
31	32	33	34	35	36		

	22 South 33 East				
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13 391
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

	22 South 34 East				
6	5	4	3	2	1
7	8	9	10	11 30	12 50
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

	22 South 35 East					
6	5	4	3	2	1	
7	8	9	10	11	12	
18	17	16	15	14	13	
19	20	21	22	23	24	
30	29	28	27	26	25	
31	32	33	34	35	36	

- 88 New Mexico State Engineers Well Reports
- 105 USGS Well Reports
- 90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)
- 90 Geology and Groundwater Resources of Eddy County, NM (Report 3)
- 34 NMOCD Groundwater Data
- **121** Abandoned Waterwell (recently measured)

(In feet)



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

water right file.)	Closed	')	(Чиа	itois	aic	, 31116	anest te	iaigesi)	(IVADOC	o o rivi ili ilieteis)		(111 1661	.)
		POD											
		Sub-		-	Q	-					-	_	Water
POD Number		basin (X	Y		Water	Column
CP 00089	0	CP	LE		2 1	13	21S	34E	647840	3594615 🎒	235		
CP 00092 POD1		СР	LE	1	3 1	25	21S	34E	647479	3591694* 🌕	196		
<u>CP 00489</u>		СР	LE			04	21S	34E	643274	3597749* 🎒	125	95	30
<u>CP 00498</u>		СР	LE		2 4	1 08	21S	34E	642287	3595932* 🌕	145	120	25
CP 00571 POD1		СР	LE	3	1 4	1 28	21S	34E	643499	3591063 🌍	170	135	35
<u>CP 00583</u>		СР	LE		3	3 21	21S	34E	642944	3592518* 🌕	171	128	43
CP 00588 POD1		CP	LE		3 2	2 33	21S	34E	643583	3589918* 🌕	89		
CP 00589 POD1		СР	LE		3 2	2 33	21S	34E	643583	3589918* 🌍	84		
CP 00590 POD1		СР	LE			01	21S	34E	648099	3597829* 🌑	79		
<u>CP 00611</u>		СР	LE		2 1	06	21S	34E	639838	3598306* 🌑	118	112	6
<u>CP 00791</u>		СР	LE	4	2 4	1 06	21S	34E	640754	3597413* 🌑	85	55	30
CP 01066 POD1		CP	LE	4	3 2	2 28	21S	34E	643735	3591345 🌑	210	140	70
CP 01067 POD1		CP	LE	1	3 4	1 28	21S	34E	643447	3591434 🌑	210	140	70
CP 01068 POD1		CP	LE	4	1 4	1 28	21S	34E	643609	3591005 🎒	180	140	40
CP 01069 POD1		CP	LE	2	1 4	1 28	21S	34E	643737	3591191 🎒	210	140	70
CP 01091 POD1		CP	LE	3	3 2	2 28	21S	34E	643446	3591434 🌑	200	140	60
CP 01364 POD1		CP	LE	4	2 3	3 16	21S	34E	643147	3594331 🌑	165	105	60
CP 01366 POD1		СР	LE	4	4 1	1 16	21S	34E	643196	3594698 🌕	180	110	70
CP 01671 POD1		СР	LE	2	4 1	1 16	21S	34E	643108	3594887 🌑	157		

120 feet Average Depth to Water:

> 55 feet Minimum Depth:

Maximum Depth: 140 feet

Record Count: 19

PLSS Search:

Township: 21S Range: 34E

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



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National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:	
Groundwater	✓ New Mexico	∨ GO

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Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

site_no list =

• 322824103253301

Minimum number of levels = 1

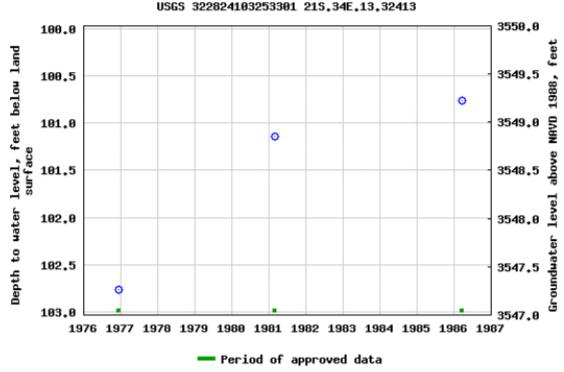
Save file of selected sites to local disk for future upload

USGS 322824103253301 21S.34E.13.32413

Available data for this site	Groundwater: Field measurements \vee GO
Lea County, New Mexico	
Hydrologic Unit Code 13070	0007
Latitude 32°28'24", Longit	ude 103°25'33" NAD27
Land-surface elevation 3,65	50 feet above NAVD88
The depth of the well is 335	5 feet below land surface.
This well is completed in th	e Chinle Formation (231CHNL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.

Download a presentation-quality graph

Questions about sites/data?
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<u>U.S. Department of the Interior</u> | <u>U.S. Geological Survey</u>

Title: Groundwater for New Mexico: Water Levels

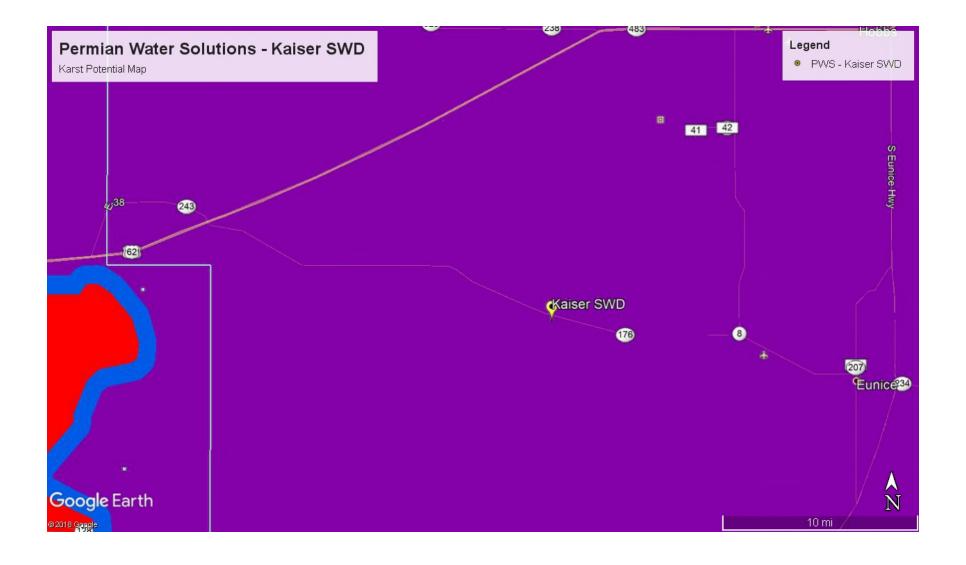
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

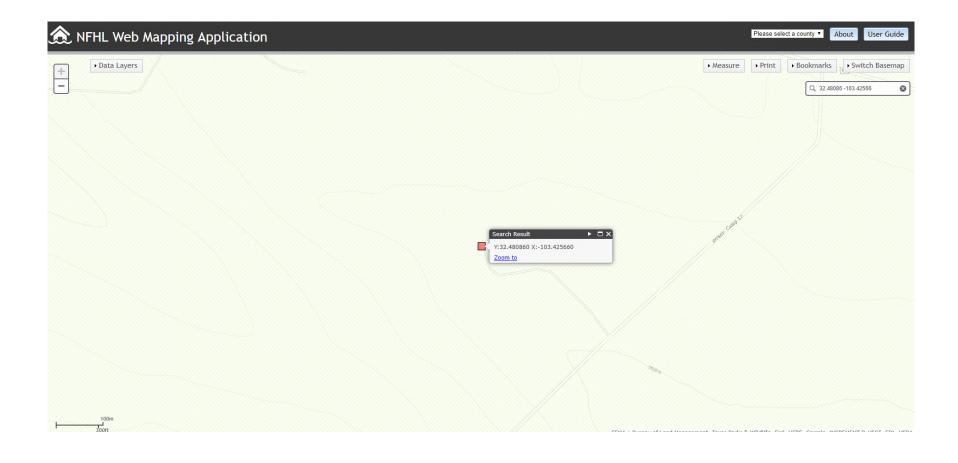
Page Contact Information: New Mexico Water Data Maintainer

Page Last Modified: 2019-05-13 12:56:28 EDT

1 0.95 nadww01







Appendix C

Client:	Permian Water Solutions				
Site Name	Kaiser SWD				
Sample ID:	SP-1				
GPS	32.480778° -103.425919°				
Project #:	212C-MD-01742				
Total Depth	35'				
Date Installed:	5/7/2019				
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)	
0-1	Caliche and sand	No odor or Odor	3140	-	
2-3	Caliche and sand	No Stain or odor	1,700	-	
4-5	Caliche and sand	No Stain or odor	1,090	-	
6-7	Caliche and sand	No Stain or odor	879	-	
9-10	Caliche and sand	No Stain or odor	780	-	
14-15	Caliche and sand	No Stain or odor	685	-	
19-20	Caliche and sand	No Stain or odor	765	-	
24-25	Caliche and sand	No Stain or odor	476	240	
29-30	Caliche and sand	No Stain or odor	274	200	
34-35	Caliche and sand	No Stain or odor	265	-	

Client:	Permian Water Solutions				
Site Name	Kaiser SWD				
Sample ID:	SP-2				
GPS	32.480951° -103.425927°				
Project #:	212C-MD-01742				
Total Depth	35'				
Date Installed:	5/7/2019				
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)	
0-1	Sand, concrete cuttings	Moderate odor	4980	-	
2-3	Sand, concrete cuttings	Moderate odor	4,000	-	
4-5	Silty sand	Moderate odor	1,990	-	
6-7	Silty sand	Heavy odor	1,800	-	
9-10	Silty sand	Faint odor	2,500	-	
14-15	Limestone and chert	Very faint odor	2,950	-	
19-20	Limestone and chert	No Stain or odor	924	-	
24-25	Limestone and chert	No Stain or odor	<i>787</i>	-	
29-30	Limestone and chert	No Stain or odor	510	280	
34-35	Limestone and chert	No Stain or odor	461	320	

Client:	Permian Water Solutions			
Site Name	Kaiser SWD			
Sample ID:	SP-3			
GPS	32.481342° -103.425949°			
Project #:	212C-MD-01742			
Total Depth	5.5'			
Date Installed:	5/13/2019			
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)
0-1	Caliche	Faint odor	2,420	-
1-1.5	Brown sand and caliche	No odor	415	-
2-2.5	Light brown sand and caliche	No odor	400	-
3-3.5	Light brown sand and caliche	No odor	297	-
4-4.5	Light brown sand and caliche	No odor	312	-
5-5.5	Light brown sand and caliche	No odor	365	-
	•			

Client:	Permian Water Solutions					
Site Name	Kaiser SWD					
Sample ID:	SP-4					
GPS	32.481349° -103.425743°					
Project #:	212C-MD-01742					
Total Depth	15'					
Date Installed:	5/7/2019					
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)		
0-1	Sand and caliche	No stain or odor	1620	-		
2-3	Sand and caliche	No stain or odor	1,690	-		
4-5	Sand and caliche	No stain or odor	1,140	-		
6-7	Sand and caliche	No stain or odor	714	-		
9-10	Sand and caliche	No stain or odor	656	480		
14-15	Sand and caliche	No stain or odor	655	480		
-	•	•				

Client:	Permian Water Solutions				
Site Name	Kaiser SWD	Kaiser SWD			
Sample ID:	SP-5				
GPS	32.480979° -103.425687°				
Project #:	212C-MD-01742				
Total Depth	35'				
Date Installed:	5/7/2019				
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)	
0-1	Dark brown sand	No Stain or odor	3180	-	
2-3	Dark brown sand	No Stain or odor	1,020	-	
4-5	Dark brown sand	No Stain or odor	754	400	
6-7	Dark brown sand	Heavy odor	510	=	
9-10	Dark brown sand	Heavy odor	610	-	
14-15	Dark brown sand	Heavy odor	673	-	
19-20	Dark brown sand	Heavy odor	689	-	
24-25	Dark brown sand	Moderate odor	<i>575</i>	-	
29-30	Light tan sand	No Stain or odor	679	240	
34-35	Light tan sand	No Stain or odor	596	200	
4	•	-			

Client:	Permian Water Solutions				
Site Name	Kaiser SWD				
Sample ID:	SP-6				
GPS	32.480748° -103.425638°				
Project #:	212C-MD-01742				
Total Depth	20'				
Date Installed:	5/7/2019				
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)	
0-1	Dark brown sand	No Stain or odor	3950	•	
2-3	Dark brown sand	No Stain or odor	2,020	-	
4-5	Dark brown sand	No Stain or odor	1,030	-	
6-7	Light tan sand and caliche	No Stain or odor	905	-	
9-10	Light tan sand and caliche	No Stain or odor	825	640	
14-15	Light tan sand and caliche	No Stain or odor	642	480	
19-20	Light tan sand and caliche	No Stain or odor	531	450	

Client:	Permian Water Solutions				
Site Name	Kaiser SWD	Kaiser SWD			
Sample ID:	SP-7				
GPS	32.480544° -103.425502°				
Project #:	212C-MD-01742				
Total Depth	25'				
Date Installed:	5/7/2019				
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)	
0-1	Dark brown sand	Very faint odor	2360	-	
2-3	Dark brown sand	Very faint odor	1,120	-	
4-5	Light tan and red sand	No Stain or odor	783	-	
6-7	Light tan and red sand	No Stain or odor	615	600	
9-10	Light tan and red sand	No Stain or odor	632	720	
14-15	Light tan and red sand	No Stain or odor	752	720	
19-20	Light tan and red sand	No Stain or odor	655	440	
24-25	Light tan and red sand	No Stain or odor	300	280	
<u> </u>					

Client:	Permian Water Solutions				
Site Name	Kaiser SWD				
Sample ID:	SP-8				
GPS	32.480767° -103.425401°				
Project #:	212C-MD-01742				
Total Depth	30'				
Date Installed:	5/7/2019				
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)	
0-1	Dark brown sand	Faint odor	9,080	-	
2-3	Dark brown sand	Faint odor	5,650	-	
4-5	Dark brown sand	Faint odor	4,490	-	
6-7	Light tan and red sand	No Stain or odor	4,370	-	
9-10	Light tan and red sand	No Stain or odor	3,970	-	
14-15	Light tan and red sand	No Stain or odor	3,100	-	
19-20	Sand with caliche and cert	No Stain or odor	1,700	-	
24-25	Red sand	No Stain or odor	452	400	
29-30	Red sand	No Stain or odor	147	180	
L	<u>I</u>	ı			

Client:	Permian Water Solutions					
Site Name	Kaiser SWD					
Sample ID:	SP-9					
GPS	32.481030° -103.425445°					
Project #:	212C-MD-01742					
Total Depth	35'					
Date Installed:	5/7/2019					
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)		
0-1	Dark brown sand	Faint odor	5,280	-		
2-3	Dark brown sand	Faint odor	2,250	-		
4-5	Light tan sand and caliche	No Stain or odor	1,820	-		
6-7	Light tan sand and caliche	No Stain or odor	2,610	-		
9-10	Light tan sand and caliche	No Stain or odor	2,280	-		
14-15	Red sand	No Stain or odor	2,270	-		
19-20	Red sand	No Stain or odor	2,680	-		
24-25	Red sand	No Stain or odor	1,530	-		
29-30	Red sand	No Stain or odor	405	440		
34-35	Red sand	No Stain or odor	421	320		
R				T.		

Client:	Permian Water Solutions				
Site Name	Kaiser SWD				
Sample ID:	SP-10				
GPS	32.481350° -103.425486°				
Project #:	212C-MD-01742				
Total Depth	5'				
Date Installed:	5/8/2019				
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)	
0-1	Dark brown sand	No Stain or odor	1,200	-	
2-3	Dark brown sand	No Stain or odor	680	560	
4-5	Light tan sand and caliche	No Stain or odor	507	360	
	Ī			Î l	

Client:	Permian Water Solutions					
Site Name	Kaiser SWD					
Sample ID:	SP-11					
GPS	32.481352° -103.425213°					
Project #:	212C-MD-01742					
Total Depth	10'					
Date Installed:	5/8/2019					
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)		
0-1	Dark brown sand	No Stain or odor	940	-		
2-3	Light tan sand and caliche	No Stain or odor	1,010	-		
4-5	Light tan sand and caliche	No Stain or odor	915	640		
6-7	Light tan sand and caliche	No Stain or odor	475	400		
9-10	Light tan sand and caliche	No Stain or odor	276	240		
<u> </u>						

Client:	Permian Water Solutions			
Site Name	Kaiser SWD			
Sample ID:	SP-12			
GPS	32.480449° -103.425113°			
Project #:	212C-MD-01742			
Total Depth	15'			
Date Installed:	5/8/2019			
	•			
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)
0-1	Dark brown sand	No Stain or odor	1,140	-
2-3	Dark brown sand	No Stain or odor	1,330	-
4-5	Light tan sand and caliche	No Stain or odor	895	600
6-7	Light tan sand and caliche	No Stain or odor	397	400
9-10	Light tan sand and caliche	No Stain or odor	325	320
14-15	Light tan sand and caliche	No Stain or odor	355	200

Client:	Permian Water Solutions			
Site Name	Kaiser SWD			
Sample ID:	SP-13			
GPS	32.480942° -103.424907°			
Project #:	212C-MD-01742			
Total Depth	1'			
Date Installed:	5/8/2019			
	[
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)
0-1	Dark brown sand	No Stain or odor	308	-

Client:	Permian Water Solutions			
Site Name	Kaiser SWD			
Sample ID:	SP-14			
GPS	32.481152° -103.424928°			
Project #:	212C-MD-01742			
Total Depth	35'			
Date Installed:	5/8/2019			
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)
0-1	Dark brown sand	No Stain or odor	895	-
2-3	Dark brown sand	No Stain or odor	667	-
4-5	Red sand	No Stain or odor	1,060	-
6-7	Red sand	No Stain or odor	898	440
9-10	Red sand	No Stain or odor	516	480
14-15	Red sand	No Stain or odor	1,120	560
19-20	Light tan sand with limestone and chert	No Stain or odor	1,510	1,400
24-25	Light tan sand with limestone and chert	No Stain or odor	1,020	-
29-30	Red sand	No Stain or odor	424	400
34-35	Red sand	No Stain or odor	315	120

Chloride (ppm)
-
680
400
440

Client:	Permian Water Solutions			
Site Name	Kaiser SWD			
Sample ID:	SP-16			
GPS	32.480448° -103.425897°			
Project #:	212C-MD-01742			
Total Depth	20'			
Date Installed:	5/8/2019			
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)
0-1	Dark brown sand with gravel	No Stain or odor	553	-
2-3	Dark brown sand with gravel	No Stain or odor	1,350	-
4-5	Dark brown sand with gravel	No Stain or odor	1,390	-
6-7	Dark brown sand with gravel	No Stain or odor	1,430	-
9-10	Dark brown sand with gravel	No Stain or odor	1,250	-
14-15	Light tan sand and caliche	No Stain or odor	975	440
19-20	Light tan sand and caliche	No Stain or odor	725	360

Client:	Permian Water Solutions			
Site Name	Kaiser SWD			
Sample ID:	SP-17			
GPS	32.481215° -103.425292°			
Project #:	212C-MD-01742			
Total Depth	5.5'			
Date Installed:	5/13/2019			
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)
0-1	Caliche	Heavy odor	-	-
2-3	Caliche	Heavy odor	-	-
3-4	Caliche	Heavy odor	-	-
4-4.5	Dark brown sand with clay & caliche	Moderate odor	OL	-
5-5.5	Dark brown sand with clay & caliche	Faint odor	OL	-

Client:	Permian Water Solutions			
Site Name	Kaiser SWD			
Sample ID:	SP-18			
GPS	32.480967° -103.425281°			
Project #:	212C-MD-01742			
Total Depth	3'			
Date Installed:	5/7/2019			
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)
0-1	Dark sand and caliche	Heavy odor	4490	-
2-3	Dark sand and caliche	Heavy odor	3,340	-

Client:	Permian Water Solutions			
Site Name	Kaiser SWD			
Sample ID:	SP-19			
GPS	32.480697° -103.425278°			
Project #:	212C-MD-01742			
Total Depth	4.5'			
Date Installed:	5/13/2019			
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)
0-1	Dark sand and caliche	Heavy odor	4040	-
2-3	Dark sand and caliche	Heavy odor	6,270	-
4-4.5	Dark sand and caliche	Heavy odor	3,130	OL
	1		1	

Site Name Kaiser SWD Sample ID: SP-20 GPS 32.480723° -103.425099° Project #: 212C-MD-01742 Total Depth 5.5' Date Installed: 5/13/2019 DEPTH (Ft) Lithology/Sample Description NOTES Salinity (ppm) Chloride (ppm) 0-1 Dark sand and caliche Heavy odor 1660 - 2-3 Dark sand and caliche Heavy odor 1,270 - 4-4.5 Dark sand and caliche Moderate odor 1,300 1200 5-5.5 Light sand and caliche Moderate odor 1,400 1280	Client:	Permian Water Solutions				
GPS 32.480723° -103.425099° Project #: 212C-MD-01742 Total Depth 5.5' Date Installed: 5/13/2019 DEPTH (Ft) Lithology/Sample Description NOTES Salinity (ppm) Chloride (ppm) 0-1 Dark sand and caliche Heavy odor 1660 - 2-3 Dark sand and caliche Heavy odor 1,270 - 4-4.5 Dark sand and caliche Moderate odor 1,300 1200	Site Name	Kaiser SWD				
Project #: 212C-MD-01742 Total Depth 5.5' Date Installed: 5/13/2019 DEPTH (Ft) Lithology/Sample Description NOTES Salinity (ppm) Chloride (ppm) 0-1 Dark sand and caliche Heavy odor 1660 - 2-3 Dark sand and caliche Heavy odor 1,270 - 4-4.5 Dark sand and caliche Moderate odor 1,300 1200	Sample ID:	SP-20				
Total Depth 5.5' Date Installed: 5/13/2019 DEPTH (Ft) Lithology/Sample Description NOTES Salinity (ppm) Chloride (ppm) 0-1 Dark sand and caliche Heavy odor 1660 - 2-3 Dark sand and caliche Heavy odor 1,270 - 4-4.5 Dark sand and caliche Moderate odor 1,300 1200		32.480723° -103.425099°				
Date Installed: 5/13/2019 DEPTH (Ft) Lithology/Sample Description NOTES Salinity (ppm) Chloride (ppm) 0-1 Dark sand and caliche Heavy odor 1660 - 2-3 Dark sand and caliche Heavy odor 1,270 - 4-4.5 Dark sand and caliche Moderate odor 1,300 1200	Project #:	212C-MD-01742				
DEPTH (Ft) Lithology/Sample Description NOTES Salinity (ppm) Chloride (ppm) 0-1 Dark sand and caliche Heavy odor 1660 - 2-3 Dark sand and caliche Heavy odor 1,270 - 4-4.5 Dark sand and caliche Moderate odor 1,300 1200	Total Depth	5.5'				
0-1Dark sand and calicheHeavy odor1660-2-3Dark sand and calicheHeavy odor1,270-4-4.5Dark sand and calicheModerate odor1,3001200	Date Installed:	5/13/2019				
0-1Dark sand and calicheHeavy odor1660-2-3Dark sand and calicheHeavy odor1,270-4-4.5Dark sand and calicheModerate odor1,3001200						
2-3 Dark sand and caliche Heavy odor 1,270 - 4-4.5 Dark sand and caliche Moderate odor 1,300 1200	DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)	
4-4.5 Dark sand and caliche Moderate odor 1,300 1200	0-1	Dark sand and caliche	Heavy odor	1660	-	
	2-3	Dark sand and caliche	Heavy odor	1,270	-	
5-5.5 Light sand and caliche Moderate odor 1,400 1280	4-4.5	Dark sand and caliche	Moderate odor	1,300	1200	
	5-5.5	Light sand and caliche	Moderate odor	1,400	1280	

Client:	Permian Water Solutions			
Site Name	Kaiser SWD			
Sample ID:	SP-21			
GPS	32.480913° -103.425125°			
Project #:	212C-MD-01742			
Total Depth	5.5'			
Date Installed:	5/13/2019			
•				
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)
0-1	Dark sand and caliche	Heavy odor	1640	-
2-3	Dark sand and caliche	Heavy odor	1,230	-
4-4.5	Dark sand and caliche	Moderate odor	2,340	1760
5-5.5	Dark sand and caliche	Moderate odor	2,100	1520

Client:	Permian Water Solutions									
Site Name	Kaiser SWD									
Sample ID:	SP-22									
GPS	32.481100° -103.425121°									
Project #:	212C-MD-01742									
Total Depth	4.5'									
Date Installed:	5/13/2019									
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)						
0-1	Dark sand and caliche	Faint odor	809	-						
2-3	Dark sand and caliche	Faint odor	843	-						
3-3.5	Light brown sand and caliche	Faint odor	1,110	640						
4-4.5	Light brown sand and caliche	No stain or odor	840	880						
	·	•	•							

Client:	Permian Water Solutions									
Site Name	Kaiser SWD									
Sample ID:	SP-23									
GPS	32.480575° -103.425705°									
Project #:	212C-MD-01742									
Total Depth	4.5'									
Date Installed:	5/14/2019									
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)						
0-1	Sand with gravel and caliche	Heavy stain and odor	-	-						
1-1.5	Caliche	Heavy odor	374	-						
2-2.5	Red clay	Heavy odor	1,400	-						
3-3.5	Caliche	Heavy stain and odor	1,590	-						
4-4.5	Caliche	Heavy stain and odor	2,020	-						

Client:	Permian Water Solutions										
Site Name	Kaiser SWD										
Sample ID:	SP-24										
GPS	32.480632° -103.425799°										
Project #:	212C-MD-01742										
Total Depth	1'										
Date Installed:	5/8/2019										
	<u>'</u>										
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)							
0-1	Sand with gravel and caliche	Heavy stain and odor	-	-							
	Deeper samples could not be obtained										
	due to rain water puddling in the area										
	upon return.										

Client:	Permian Water Solutions												
Site Name	Kaiser SWD												
Sample ID:	SP-25												
GPS	32.480534° -103.425837°												
Project #:	212C-MD-01742												
Total Depth	5.5'												
Date Installed:	5/14/2019												
	·												
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)									
0-1	Sand with gravel and caliche	Heavy stain and odor	-	-									
1-1.5	Caliche	Heavy stain and odor	2,640	-									
2-2.5	Red clay	Heavy stain and odor	1,380	-									
3-3.5	Caliche	Heavy stain and odor	3,090	-									
4-4.5	Caliche	Heavy stain and odor	2,410	-									
5-5.5	Caliche	Heavy stain and odor	2,320	-									

Client:	Permian Water Solutions										
Site Name	Kaiser SWD										
Sample ID:	SP-26										
GPS	32.480451° -103.425751°										
Project #:	212C-MD-01742										
Total Depth	1'										
Date Installed:	5/8/2019										
	<u> </u>										
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)							
0-1	Sand with gravel and caliche	Heavy stain and odor	-	-							
	Deeper samples could not be obtained										
	due to rain water puddling in the area										
	upon return.										

Client:	Permian Water Solutions										
Site Name	Kaiser SWD										
Sample ID:	SP-27										
GPS	32.481092° -103.425951°										
Project #:	212C-MD-01742										
Total Depth	40'										
Date Installed:	5/8/2019										
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)							
0-1	Dark brown sand and gravel	No Stain or odor	3420	-							
2-3	Dark brown sand and gravel	No Stain or odor	4,800	-							
4-5	Sand	Heavy odor	2,830	-							
6-7	Sand and gravel	Moderate odor	8,000	-							
9-10	Sand and gravel	Moderate odor	7,400	-							
14-15	Sand and gravel	Moderate odor	7,300	-							
19-20	Sand and gravel	Moderate odor	4,650	-							
24-25	Sand and gravel	Moderate odor	287	-							
29-30	Silty sand	No Stain or odor	415	400							
34-35	Silty sand	No Stain or odor	385	200							
L	ı										

Client:	Permian Water Solutions									
Site Name	Kaiser SWD SP-29									
Sample ID:										
GPS	32.481134° -103.425716°									
Project #:	212C-MD-01742									
Total Depth	7'									
Date Installed:	5/8/2019									
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)						
0-1	Dark brown sand and gravel	No Stain or odor	2,280	-						
2-3	Dark brown sand and gravel	No Stain or odor	957	720						
4-5	Sand and caliche	No Stain or odor	200	200						
6-7	Sand and caliche	No Stain or odor	160	160						
		1								

Client:	Permian Water Solutions									
Site Name	Kaiser SWD									
Sample ID:	SP-30									
GPS	32.481158° -103.425458°									
Project #:	212C-MD-01742									
Total Depth	15'									
Date Installed:	5/8/2019									
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)						
0-1	Dark brown sand and gravel	No Stain or odor	5010	-						
2-3	Dark brown sand and gravel	No Stain or odor	2,410	-						
4-5	Sand and caliche	No Stain or odor	1,010	-						
6-7	Sand and caliche	No Stain or odor	946	-						
9-10	Sand and caliche	No Stain or odor	858	480						
14-15	Sand and caliche	No Stain or odor	262	200						

Client:	Permian Water Solutions										
Site Name	Kaiser SWD										
Sample ID:	SP-31										
GPS	32.480607° -103.425155°										
Project #:	212C-MD-01742										
Total Depth	5'										
Date Installed:	5/8/2019										
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)							
0-1	Dark brown sand	No Stain or odor	355	-							
2-3	Dark brown sand	No Stain or odor	200	200							
4-5	Dark brown sand	No Stain or odor	212	160							

Client:	Permian Water Solutions										
Site Name	Kaiser SWD										
Sample ID:	SP-32										
GPS	32.480746° -103.424896°										
Project #:	212C-MD-01742										
Total Depth	5'										
Date Installed:	5/8/2019										
DEPTH (Ft)	Lithology/Sample Description	NOTES	Salinity (ppm)	Chloride (ppm)							
0-1	Dark brown sand	No Stain or odor	243	-							
2-3	Dark brown sand	No Stain or odor	762	400							
4-5	Dark brown sand	No Stain or odor	755	560							

TETRA TECH

Borehole ID: BH-17

Soil Drilling Log with Field Testing Results

Project Name :Kaiser St SWDDate :Monday, October 21, 2019

 Project No.:
 212C-MD-01742

 Sampler:
 Conner Moehring

 Location :
 Lea Co, NM

 Coordinates :
 32.481227 -103.425306

 Driller :
 Scarborough Drilling

 Elevation :
 Method :
 Air Rotary

Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	PID	Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
0 —		Black/brown sand			50		Т		
		Black/brown sand							
		Red sand and silt							
5		Red sand and silt			55				
#		Reu Sailu allu Silt			‡				
10		Fine dry brown sand			60				
#		Dense layer of caliche			#				
15		Caliche with pebbels			65				
20		Tan Sand with caliche	840		70				
_		Dense layer of caliche			Ŧ				
25		White fine caliche	700		75				
#		Brown sand	500		#				
30		Fine red sand	300		#		Comments: T.D 30'		
35		Red Sand	480		#				
40					土				
±					#				
+					+				
45 —					#				
45					I I				
\pm					\pm				
JU									

^{*} H.O. = Heavy Odor

^{*} L.O. = Low Odor

^{*} H.S. = Heavy Staining

^{*} L.S. = Low Staining



Soil Drilling Log with Field Testing Results

Project Name: Kaiser St SWD

Project No. : <u>212C-MD-01742</u>

Location: Lea Co, NM

Coordinates: 32.480967 -103.425290

Elevation :

Date: Monday, October 21, 2019

Sampler : Conner Moehring

Driller: Scarborough Drilling

Depth (ft.) WL	. Soil Description	Chloride Field Test (ppm)	PID	Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
5	Black and brown sand / gravel Black gravel tan and black gravel and sand Dense layer of caliche tan caliche			50				
10	Caliche layer Red brown sand	1,200		65				
25	Dense layer of calchie Red brown sand	1,800		75				
30	Red brown sand	1,800		#		Comments: T.D 50'		
35	Red brown sand	1,000		T				
40	Red brown sand	800		#				
45	Red brown sand Red brown sand	480		‡ ±				

^{*} H.O. = Heavy Odor

^{*} L.O. = Low Odor

^{*} H.S. = Heavy Staining

^{*} L.S. = Low Staining



Soil Drilling Log with Field Testing Results

Project Name : Kaiser St SWD

Project No.: 212C-MD-01742

Location: Lea Co, NM

Coordinates : 32.480704 -103.425281

Elevation :

Date: Tuesday, October 22, 2019

Sampler: Conner Moehring

Driller: Scarborough Drilling

Depth (ft.) W	- Soil Description	Chloride Field Test (ppm)	PID	Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
。工厂	Black brown sand with gravel			⁵⁰ T				
5	Black brown sand with gravel			55				
10	tan sand with calcihe			60 —				
#	Dense layer of caliche			#1				
15	Caliche with tan sand			65				
15	Tan caliche with sand	>2000		70				
25	Red dry sand			75				
	Red dry sand Dense layer of caliche	242		#		Comments: T.D 40'		
35	Red fine sand	142		=				
45	Red fine sand	313						
50 🛨				土				

^{*} H.O. = Heavy Odor

^{*} L.O. = Low Odor

^{*} H.S. = Heavy Staining

^{*} L.S. = Low Staining



Soil Drilling Log with Field Testing Results

Project Name: Kaiser St SWD

Project No. : <u>212C-MD-01742</u>

Location: Lea Co, NM

Coordinates: 32.480704 -103.425094

Elevation :

Date: Tuesday, October 22, 2019

Sampler: Conner Moehring

Driller: Scarborough Drilling

Depth (ft.) WL	Soil Description	Chloride Field Test (ppm)	PID	Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
10	Black gravel and sand Black gravel with sand grey gravel and tan sand Tan sand and gravel Fine dry tan sand Dense layer of clay Tan sand and gravel	940		50			ф	(pp.ii)
30	Red fine sand Dense layer of caliche Red sand fine	240		75		Comments: T.D 30'		

^{*} H.O. = Heavy Odor

^{*} L.O. = Low Odor

^{*} H.S. = Heavy Staining

^{*} L.S. = Low Staining

TETRA TECH

Borehole ID: BH-23

Soil Drilling Log with Field Testing Results

Project Name : Kaiser St SWD

Project No. : 212C-MD-01742

Location: Lea Co, NM **Coordinates**: 32.4800551 -103.425712

Elevation :

Date: Tuesday, October 22, 2019

Sampler : Conner Moehring

Driller: Scarborough Drilling

Depth (ft.) WL	. Soil Description	Chloride Field Test (ppm)	PID	Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
10	Black gravel damp black gravel damp tan sand / gravel Tan sand and gravel Caliche with tan sand Dense layer of caliche			50		Damp red sand	400	
25	Caliche sand tan Red sand dry	>2000		75				
35	Dry red sand Dry red sand					Comments: T.D 55'		
40	Dry red sand	1,200		#				
45	Damp red sand Damp red sand	1,100		#				

^{*} H.O. = Heavy Odor

^{*} L.O. = Low Odor

^{*} H.S. = Heavy Staining

^{*} L.S. = Low Staining



Soil Drilling Log with Field Testing Results

Project Name : Kaiser St SWD

Project No. : <u>212C-MD-01742</u>

Location: Lea Co, NM

 $\textbf{Coordinates}: \ \ \, \underline{32.480613\ \text{-}103.425790}$

Elevation :

Date: Tuesday, October 22, 2019

Sampler : Conner Moehring

Driller: Scarborough Drilling

Depth (ft.) WL	Soil Description	Chloride Field Test (ppm)	PID	Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
5	Black brown gravel Tan black gravel and sand Tan sand dry brown tan sand Brown tan sand			50				
10	Tan caliche with gravel Tan caliche with gravel Red sand with gravel	242 480		70				
30 40 45 50	Red sand	376				Comments: T.D 30'		

^{*} H.O. = Heavy Odor

^{*} L.O. = Low Odor

^{*} H.S. = Heavy Staining



Soil Drilling Log with Field Testing Results

Project Name : Kaiser St SWD

Project No. : <u>212C-MD-01742</u>

Location: Lea Co, NM

 $\textbf{Coordinates:} \ \ \, \underline{32.480517\ \text{-}103.425836}$

Elevation :

Date: Tuesday, October 22, 2019

Sampler : Conner Moehring

Driller: Scarborough Drilling

Depth (ft.) WL	Soil Description	Chloride Field Test (ppm)	PID	Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
10	Black gravel Brown sand with black gravel Brown sand Tan sand w/ caliche Caliche with tan sand Dense layer of caliche Dry red sand Dense layer of caliche Red dry sand	520		50		Comments: T.D 25'		

^{*} H.O. = Heavy Odor

^{*} L.O. = Low Odor

^{*} H.S. = Heavy Staining



Soil Drilling Log with Field Testing Results

Project Name : Kaiser St SWD

Project No. : <u>212C-MD-01742</u>

Location: Lea Co, NM

 $\textbf{Coordinates}: \ \ \, \underline{32.480445\ \text{-}103.425753}$

Elevation :

Date: Tuesday, October 22, 2019

Sampler: Conner Moehring

Driller: Scarborough Drilling

Depth (ft.) W	'L Soil Description	Chloride Field Test (ppm)	PID	Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
10	Black and brown sand Black and brown sand Black sand and gravel Tan sand Tan sand Tan sand with calcihe Soft caliche Red sand Red sand Red sand	Field Test	PID	50		Soil Description Comments: T.D 35'	Field Test	Titration Test
45								

^{*} H.O. = Heavy Odor

^{*} L.O. = Low Odor

^{*} H.S. = Heavy Staining

^{*} L.S. = Low Staining

TETRA TECH

Borehole ID: BH-33

Soil Drilling Log with Field Testing Results

Project Name : Kaiser St SWD

Project No. : <u>212C-MD-01742</u>

Location: Lea Co, NM

 $\textbf{Coordinates}: \ \ \underline{32.480752} \ \textbf{-103.425214}$

Elevation :

Date: Tuesday, October 22, 2019

Sampler: Conner Moehring

Driller: Scarborough Drilling

Depth (ft.) WL	Soil Description	Chloride Field Test (ppm)	PID	Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
10	Black gravel with sand Black gravel and sand Brown sand with clay Dry brown sand Red sand with gravel	400 280		50		Comments: T.D 20'	(ppm)	(ppm)

^{*} H.O. = Heavy Odor

^{*} L.O. = Low Odor

^{*} H.S. = Heavy Staining



Soil Drilling Log with Field Testing Results

Project Name : Kaiser St SWD

Project No. : 212C-MD-01742

Location: Lea Co, NM

Coordinates: 32.480939 -103.425204

Elevation :

Date: Tuesday, October 22, 2019

Sampler : Conner Moehring

Driller: Scarborough Drilling

Depth (ft.) V	WL Soil Description	Chloride Field Test (ppm)	PID	Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
° T Г	Black and brown sand	I		50 —			<u> </u>	
#1	Black and brown gravel and sand			#				
5	Dry brown sand and clay			55				
#1	Dry brown sand			Ŧ				
10	Dry red sand			60				
10	Dry red sand			65				
20	Dense layer of caliche	1,600		70				
25	Caliche cobbles			75				
30	Dry red sand			#		Comments: T.D 40'		
35	Dry red sand	540		#				
40	Dry red sand	400		#				
45				#				
50 ±				土				

^{*} H.O. = Heavy Odor

^{*} L.O. = Low Odor

^{*} H.S. = Heavy Staining

^{*} L.S. = Low Staining

Location: Lea Co, NM

Borehole ID: BH-35 Soil Drilling Log with Field Testing Results

Project Name :Kaiser St SWDDate :Monday, October 21, 2019

 Project No.:
 212C-MD-01742

 Sampler:
 Conner Moehring

 Coordinates : 32.481099 -103.425226
 Driller : Scarborough Drilling

Elevation : Method : Air Rotary

Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	PID	Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
٥ 🎞		Black and brown gravel and sand			50				
#		Black and brown gravel and sand			#				
5		Brown and tand sand			55				
10		brown sand and caliche			60				
15 =		Brown sand			65				
20		Dense layer of calciche			70				
25		Red sand			75				
30		Red sand			#		Comments: T.D 50'		
35		Red sand with caliche pebbles			1				
+		Very dense kayer of calcihe			#				
45		Very dense kayer of calciche			#				
50		Red Sand			土				

^{*} H.O. = Heavy Odor

^{*} L.O. = Low Odor

^{*} H.S. = Heavy Staining

Location: Lea Co, NM

Borehole ID: BH-36 Soil Drilling Log with Field Testing Results

Project Name :Kaiser St SWDDate :Monday, October 21, 2019

 Project No.:
 212C-MD-01742

 Sampler:
 Conner Moehring

 Coordinates : 32.481235 -103.425211
 Driller : Scarborough Drilling

Elevation: Method: Air Rotary

Depth (ft.) WL	. Soil Description	Chloride Field Test (ppm)	PID	Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
	Black and brown gravel and sand Brown tan gravel			50 🛨				
5 📥	Tan caliche Dense layer of caliche	7,260		55				
10	Brown tan sand	1,620		60				
15	Brown/tan sand	460		65				
20	Fine tan sand	600		70				
25 —				75				
30				-		Comments: T.D 20'		
35				#				
40				+				
45				‡ ‡				
50				刲				

^{*} H.O. = Heavy Odor

^{*} L.O. = Low Odor

^{*} H.S. = Heavy Staining

^{*} L.S. = Low Staining



Appendix C

Progress Meetings notes

Progress Meeting Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 07/28/2021

Meeting Time: 8:00 am, Wednesday July 28, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, Wednesday August 4, 2021

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Maria Pruett		mpruett@slo.state.nm.us	NM State Land Office
Dusty McInturff		dmcinturff@dufrane.com	Dufrane Construction
Jenni Usher	512/820-8772	Jenni@permianws.com	Permian Water
			Solutions
Clair Gonzales	432/260-8634	Clair.gonzales@tetratech.com	Tetratech

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting: None. We're launching new today.

Assign Follow Up Tasks For Incomplete Old Business:

Safety:

Site Observations:

At SLO / Merchant Livestock request;

Pot hole left from gas pipeline locate has been backfilled Cattleguard has been cleaned out and reset.

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Weather Delays:

Two Week Look Ahead:

Hope to start construction of new road next week, pending responses from one call. Numerous pipelines on site to cross over/add fill. At the staging area install a Liner down with berm to prepare for Phase 2. Field meeting with Tetratech, to kick off the plan; excavate material under old battery tank, soil testing at excavated depths, refill with clean material.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

Establishing contact with pipeline owners for ROW. Pipelines marked and flagged clearly. New cattle guard will need to be installed 30-50' back from road to avoid Enterprise pipeline. Then add fence on Eastern perimeter to fence livestock out.

Critical Path Considerations: Complete Phase 1 so Phase 2 can begin. Make contact with pipeline owners for ROW so field work can begin. Faith offered assistance with contacting ROW owners.

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Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Damaged tanks have been removed. Test Well #1 drilled.
- 2. Test well #2
 - a. Installed by end of Phase 1. SLO likely wants to keep as monitoring well. Dusty and Clair to determine if Test Well #2 needs to be moved due to being in the way of new tank battery location. Get with Maria and Ryan when known. Chris Cortez submitted paperwork to OSE to plug #1 and drill #2; awaiting approval from OSE, but plan is to perform work mid-end of August.
- 3. Phase 2 workplan, issued with this meeting request and by separate email on 07/23/2021
 - a. Item #3 Confirm green outline just needs to be excavated to 1' and refilled. Will be close to new tank battery location.
 - b. Item #4 Will SLO consider geosynthetic clay liner instead of bentonite clay membrane mat? Dufrane has had success with this and will send product info to SLO to review.
 - c. Dusty stated concerns with excavation depths greater than 19' may require separate engineering plan; how would they proceed if this occurs? SLO will evaluate samples at 8-12' as they go to determine if shallower depths are acceptable. If samples indicate deeper excavation is still necessary, a new plan will be devised to accommodate an engineering plan to address the new safety concerns.
 - d. Item #5 Are the purple outlined areas recent or legacy off-pad spills? 10 RP's on file for Kaiser site. Determine owner of PW line to South of lease road may be historical spill by another operator? Both sides to look into this further. PWS does not believe these are from Kaiser site.

Assign Follow Up Tasks For New Business:

Verify Date and Time of Next Meeting: 8:00 am, Wednesday August 4, 2021

Adjourn: at 9:00 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site outline

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - All areas not noted in key, excavate to 6'.
 - Final samples to the following closure criteria:
 - 1,000 mg/kg TPH.
 - 7,000 mg/kg CI* - STEKNO
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

- - Completed/Out of scope areas
- - Areas of 15' excavation
- - Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days. **
- and len may change subject to sample data from spill and water testing that



Progress Meeting Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 08/4/2021

Meeting Time: 8:00 am, Wednesday August 4, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, Wednesday August 11, 2021

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Maria Pruett		mpruett@slo.state.nm.us	NM State Land Office
Dusty McInturff		dmcinturff@dufrane.com	Dufrane Construction
Josh Brooks	617/584-2889	jbrooks@dufrane.com	Permian Water Solutions
Clair Gonzales	432/260-8634	Clair.gonzales@tetratech.com	Tetratech
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions

Review Previous Meeting Minutes: Faith made an update to the minutes Permian sent, but Permian did not receive. Requested for updated document to be resent.

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

SLO needs product specs of geosynthetic clay liner (GCL) for Maria and Ryan to review. RFI can be submitted for plastic liner consideration.

Phase 2 Purple Outlined areas: Permian expressed concern that these are off lease. SLO said Permian is responsible for investigating what happened, when, was a C-141 filed, etc and presenting the research to the SLO. They have done no investigation, just reviewed Google Imagery.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

One Calls still pending. Only one pipeline has been cleared, rest are still in conflict or unable to reach. Dusty will file 'no response' with NM 811 by end of day so they must respond within 24 hours. Dusty is working with Enterprise. No excavation has been started yet due to lack of one call responses. Equipment/cattle guard is being mobilized to site in anticipation of being cleared to start road construction soon.

Weather Delays:

Two Week Look Ahead:

Hope to receive pipeline operators' requirements for building over their pipelines. If it's just running material over, hopefully fieldwork can begin next week. Need to work with Enterprise more in depth to determine the exact road placement and cattleguard placement with regard to their pipeline ROW. Likely still at least 1 week out from starting fieldwork due to communication with pipeline operators.

Josh asked if the lease acreage could be reduced now that Test well #1 has been drilled. Faith will look into it and respond.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

Permian is concerned with the oil/gas lease directly adjacent to the South and how to safely excavate this area. SLO requests a new site plan showing the new tank battery location and the approach to completing the work. Permian wants to have (1) road constructed for safe traffic flow, (2)

remediate Phase 1, old tank battery area, (3) establish lay down area, install liner, berm it up, stockpile material, (4) receive approval of Phase 1 remediation, and then new tank battery will be put in.

Critical Path Considerations:

Josh wants the testing and feedback from the SLO/NMOCD to be done as quickly as possible, so equipment isn't sitting idle. He can provide a drone shot of progress and send to Faith and Ryan to expedite.

Dusty is concerned with excavating so close to the oil well to the South and establishing a safe slope. Josh confirmed what Permian needs to do to address the Phase 2 purple outlined areas off lease – do our research, summarize, and share with SLO and we'll go from there.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Josh asked if we just dig everything down to 15' and have Tetratech do testing instead of digging until we see clean dirt and stopping to test if shallower than 15'. Maria said that stopping and testing shallower may work for normal spill, but this site had decades of spills. Faith confirmed that 15' would be necessary and we could talk once we have test results to review.
- 2. Test well #2
 - a. SLO wants the location of this well along the West side of lease, not the NE corner. Preference is between the two most Southern Phase 2 blue dotted outlines. Clair is concerned with the fieldwork flow of this since excavations are required around this location. Josh said they'll get out there and work up revised site plan and possibly complete shallow remediation first, replace soil, then drill Test #2 well?
- 3. Phase 2 workplan, issued with this meeting request and by separate email on 07/23/2021
 - a. Clair questioned the closure criteria of 15' and how SLO arrived at this. Clair mentioned the NMOCD has areas that need to be dug out in between the 15' blue outlined areas. SLO has results from prior operators and determined that a blanket 15' for an area made more sense than varying different depths within an area. SLO and NMOCD have different requirements, and this is a general overlayed area, not GPS field accurate.

Assign Follow Up Tasks For New Business:

SLO requests a new site plan showing the Test #2 well location, research results of off pad spills (purple outline), and the technical specs of the geosynthetic clay liner and plastic liner.

Permian/Tetratech requests the data the SLO is looking at for the previous samples/spills and the updated minutes from July 28, 2021 meeting that Faith circulated.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday August 11, 2021

Adjourn: at 9:07 am

- *Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct
- ***SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations***

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site outline

- - -

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TFH
 - 7,000 mg/kg CI*
 BTEX ND
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

Map Key:

- Completed/Out of scope areas
- - Areas of 15' excavation
- - Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days. **
- aneplan may change subject to sample data from soil and water testing.



Progress Meeting Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 08/11/2021

Meeting Time: 8:04 am, Wednesday August 11, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, Wednesday August 18, 2021

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> – upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
David Gallegos			
Dusty McInturff		dmcinturff@dufrane.com	Dufrane Construction
Clair Gonzales	432/260-8634	Clair.gonzales@tetratech.com	Tetratech
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Dusty sent RFI for plastic liner and product specs for Geosynthetic Clay Liner (GCL). Ryan and Maria have been unable to review, but Ryan said he would review today and didn't have major concerns. Faith approved the GCL, but they will not approve the plastic liner.

Phase 2 Purple Outlined Areas: Jenni has started research through the NMOCD online system but wants to look more in depth at a few items, discuss internally with Dusty and Clair, and summarize findings to present to the SLO. Permian will try to have this prepared for next week's meeting.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs. Recent submission for plastic liner was not approved.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Dusty has met with Enterprise, Centennial, and DCP. Enterprise wanted a hydrovac truck to find line and they want 2' cover over pipeline. Centennial has two lines aboveground; they want 2' cover. DCP has two lines and they also want 2' cover. They've started to cut the road in and cover the pipelines. They've started subgrading prep on road for caliche to come in and cattleguard placement. The site is being cleaned while covering potholes and making ground more accessible for traffic flow. They've started removing underground infrastructure, conduit, piping around battery area. The staging area across the road has not been worked on yet.

Revised site layout was sent showing new battery, new road, staging area and pipeline locations.

Weather Delays:

Two Week Look Ahead:

Dusty hopes the staging area will be complete and to complete the road. It requires hauling in 1000 yards of material and hopefully the trucks hauling in will be reliable. It should take 3-4 days once they get moving though.

Clair and Dusty will work on spotting Test #2 location to add to revised site layout. SLO wanted it along Western side of old battery area because it was a hot area. SLO and Dusty/Clair will email throughout week to try to firm up location.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

Nothing major at this time. Dusty said there is evidence of cattle around the location. Merchant has livestock out there. Fences will need to be put up to keep livestock segregated from the roads and staging area.

Critical Path Considerations:

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. We're working on everything, nothing to add from either party.
- 2. Test well #2
 - a. Both sides will correspond over the week regarding the well location. SLO may want it to be a monitoring well.
- 3. Phase 2 workplan, issued with this meeting request and by separate email on 07/23/2021

a.

Assign Follow Up Tasks For New Business:

Determine location of Test #2 well.

Meeting #2 minutes send for Final email circulation.

Summarize research of Purple Outlined Areas.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday August 18, 2021

Adjourn: 8:35 am

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site outline

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - All areas not noted in key, excavate to 6'.
 - Final samples to the following closure criteria:
 - 1,000 mg/kg TPH.
 - 7,000 mg/kg CI* - STEKNO
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

- - Completed/Out of scope areas
- - Areas of 15' excavation
- - Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days. **
- and len may change subject to sample data from spill and water testing that



Progress Meeting #4

Project: Kaiser State #9 Contract: SW-330 Today's Date: 08/18/2021

Meeting Time: 8:00 am, Wednesday August 18, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, Wednesday August 25, 2021

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Clair Gonzales	432/260-8634	Clair.gonzales@tetratech.com	Tetratech
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Lots of rain at the end of last week and over weekend causing delay because they don't want to tear things up in the field with heavy equipment.

Test well #2: Dusty and Clair sent proposed location to Faith and Ryan to review. It will be drilled as a permanent monitoring well, but remediation still needs to be able to be done around the location. Dusty and Clair think this location is still close to the SLO's hot spot area (near borehole #27), but it won't affect remediation efforts. Ryan is OK with the location. Dusty will let Atkins Engineering know they can move forward with the location and that it will be placed as a permanent monitoring well. One calls were placed for the location and August 19, 2021 is the date Atkins is scheduled to come out.

Safety:

Site Observations: Lots of rain. Surface needs to dry out more to do earthwork.

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs. Recent submission for Test well #2 location was approved.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Dusty was in the process of subgrade & finish grade on the new road, but the rain halted work. He was able to find 350 yards of caliche and is working on credit app approval from Mack Energy for future material. Some caliche is on the road and the cattle guard is on site, but the ground needs to dry out more before the road can be completed.

All pipelines have been covered with 2' except the Enterprise PL and a DCP PL. The Enterprise PL was found at 38" and 2' will go on top, but they want to use the soil from the cattle guard to cover it. DCP can't confirm if their PL on site is live or abandoned yet. Dusty asked them to come spot the line in the field since it may run within the excavation area, but they have not confirmed when they will do this yet. This will affect Phase 2, not Phase 1.

Weather Delays: Heavy rain delaying earthwork. Forecast appears sunny for upcoming week.

Two Week Look Ahead: Assuming the site dries out enough to pick up earthwork again, Dusty has liner to establish the laydown area. Ideally, they will haul material off instead of stocking it up in the laydown, but they'll need to see what happens once they are able to start digging. Phase 1 battery area is just too wet to excavate now.

Clair will be on site to mark boundaries for excavation this week. Hopefully mid-week next week excavation can begin if surface dries out enough.

Atkins Engineering to drill Test well #2 tomorrow. They will let it sit for a couple of days and then get samples for lab testing. Faith requested results be sent to the SLO and NMOCD concurrently. Dusty and Clair agreed.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate

sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: Heavy rain has delayed field work.

Critical Path Considerations:

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Still working on it, but rain has delayed earthwork. Need to wait for surface to dry out more.
- 2. Test well #2
 - a. Location approved. Atkins Engineering will be on site August 19, 2021, to drill as permanent well.
- 3. Phase 2 workplan, issued with this meeting request and by separate email on 07/23/2021
 - a. So far research on Purple outlined areas across the road has not yielded obvious incidents/spills reported in these locations.

Assign Follow Up Tasks For New Business:

Test well #2 should be completed and samples obtained for laboratory testing. Summarize concise details of Purple outlined areas research data for SLO to analyze. Get with Emily Hernandez to see if more information is available.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday August 25, 2021

Adjourn: 8:32 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

SI

Site outline

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Phase 1 Remediation Area

 \bigstar

Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- - Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #5 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 08/25/2021

Meeting Time: 8:04 am, Wednesday August 25, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, September 1, 2021

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Clair Gonzales	432/260-8634	Clair.gonzales@tetratech.com	Tetratech
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

There are no outstanding RFI's.

Test well #2 has been drilled and set as a monitoring well. It has metal casing and bollards around it. Tetratech's scheduling was a bit crazy, but they will low flow and test the well on Thursday August 26, 2021. Test results are expected to be back by the middle of next week.

Safety:

Site Observations: There was some sunshine and wind to help dry out surface but there was a little bit of rain last Saturday.

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

The new road has been completed. Dusty has started mining material for the berm (to be stored in the staging area across the road) from the Merchant pit down the road. Tetratech was out to mark the Phase 1 excavation area and excavation has started. Dusty is running all their trucks and stockpiling material but they are working to secure more reliable truck and labor from third parties; it has been difficult to keep people committed. They've started excavation in the SE corner and will work their way N. 10-day weather forecast does not show rain.

Remaining pipeline issues – the DCP line is marked. They want us to pot hole but they have not confirmed is the line is active or inactive (live or dead). It may be located in the Phase 2 area. It is 5' deep and if it is live then 15' may be difficult to excavate around. If it is dead, DCP may require certain protocol for working around the line so they don't lose their ROW.

Dusty has been working with DCP contact Mario Camunez, 575-988-8764. He's a field guy that responds to one calls, so we may need help finding a DCP decision maker in the area to move forward. Faith and Ryan will review their ROW data and try to find a contact with DCP that Dusty can speak with. Dusty thinks the line is about 400' running N-S through Phase 2 area. He'll update the location on his KMZ file and circulate so Faith can review within the SLO GIS data to assist.

Weather Delays: 10-day forecast looks promising for sunshine!

Two Week Look Ahead:

Dusty is hauling Phase 1 material out. It is a large amount of dirt to be pulled and put back. Logistically he's trying to utilize the trucks to dump contaminated dirt and then rehaul clean dirt back. He needs to determine a suitable space for stockpiling the good dirt and basically continue excavation activities so that Clair/Tetratech is able to get on site and do their work.

The fence needs to be put up around the new road access.

The temporary liner needs to go in for the laydown area across the road.

Anticipating an area of 100 x 80' for a laydown area for the material that will be used to construct the berms. Plastic liner will be laid out under material. Faith said to update SLO as this task progresses further along.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: Need to establish DCP communication regarding the status of their pipeline which may run through Phase 2 area.

Critical Path Considerations:

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Working on Phase 1 excavation. SLO will assist Dusty with obtaining a DCP contact to determine the course of action for their pipeline.
- 2. Test well #2
 - a. Well has been drilled and completed as permanent monitoring well. Plan is to obtain samples August 26, 2021 and receive results next week.
- 3. Phase 2 workplan, issued with this meeting request and by separate email on 07/23/2021
 - a. Purple outlined area research is underway. We contacted Emily Hernandez and Mike Bratcher with the OCD to see if they had more details on a few incidents we identified. Dusty is also taking photos of the areas.

Assign Follow Up Tasks For New Business:

Test well #2 laboratory results should be in next week.

SLO will try to find DCP contacts for Dusty to reach out to.

Permian will continue to seek approval of remediation work plan from OCD so both agencies concur with field objectives.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday September 1, 2021

Adjourn: 8:27 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

***SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface

water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations***

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

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Site outline

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Phase 1 Remediation Area

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Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****Flan may change subject to sample data from spill and water testing ****



Progress Meeting #6 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 08/25/2021

Meeting Time: 8:06 am, Wednesday September 1, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, September 8, 2021

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Clair Gonzales	432/260-8634	Clair.gonzales@tetratech.com	Tetratech
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

There are no outstanding RFI's.

Test well #2 has been drilled and set as a monitoring well. Tetratech obtained samples Friday, August 27, 2021. Hopefully samples will be back at the end of this week or early next. Groundwater was at 71'.

The crew is disassembling offload station. Once offload station is disassembled, they will move to temporary fencing around containment liner across road for unload area. The crew will then move to access road fencing. Equipment is blocking the area off from cattle currently. Hopefully this will be completed by end of week and fence around new road can be built. Cattleguard is in.

Dusty is still working through DCP personnel for details pertaining to their pipeline and Phase 2 excavation.

Safety: Concerns with DCP line being active and affecting Phase 2 excavation.

Site Observations: Weather has been dry.

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Dusty working on DCP pipeline still. He spoke with Jordan Britton, the SLO-provided contact. She pushed it to Isiah, the original line locator Dusty spoke with last year. He originally told DCP to cut and reroute line, but it was not done. Line is Active, 3" poly, either gathering or gas line. Claudia with DCP called and will get with her supervisors and Dusty will update her after today's call with more information. DCP will allow excavation up to 2' to line, which Dusty is not comfortable with. They'd have to hydrovac to find line depths, but Dusty is concerned with getting close to active lines. This impacts Phase 2, but if Phase 1 side wall samples are impacted, the East and West walls of the pipeline will be affected. Faith wants Permian to obtain a waiver from DCP that DCP will accept full responsibility for anything that happens. Dusty thinks it would be easier if they reroute the line but needs SLO help with how this affects DCP's ROW or if SLO could make them reroute. Faith will check with the ROW division. Dusty will communicate today's meeting with DCP and submit RFI to SLO to keep record. Expect DCP to take a week or so to communicate internally.

Weather Delays: 10-day forecast looks promising, no rain.

Two Week Look Ahead:

Hoping excavation will be completed and bottom will be reached so Clair/Tetratach can obtain samples. If he can find more trucks it could be completed in two weeks.

Old tanks are being stored on West side of site/Phase 2 area. Once Phase 1 is complete, Josh will get involved with rebuilding the new tank battery. Need to have third party assess integrity of tanks to determine if they can be used.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: Need to establish gameplan for DCP line.

Critical Path Considerations:

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Working on Phase 1 excavation. SLO and Dusty will work on communication with DCP regarding their active pipeline.
- 2. Test well #2
 - a. Well has been drilled and completed as permanent monitoring well. Samples obtained August 27, 2021 and awaiting lab results.
- 3. Phase 2 workplan, issued with this meeting request and by separate email on 07/23/2021
 - a. Purple outlined area research is underway. Emily Hernandez and Mike Bratcher with the OCD did not have anything new to add. Cory Smith is an Environmental Engineer assigned to review the remediation plan. We just started sending him requested information. He also did not suggest any new places to search for incidents. He noted it was unlikely that older data would be linked up anywhere and their filing systems and personnel changes over the years resulted in an incomplete system for tracking incidents and pits.

Assign Follow Up Tasks For New Business:

Test well #2 laboratory results should be in next week.

SLO will discuss DCP pipeline issue internally with ROW and Legal. Dusty wants to know if DCP should be responsible for the remediation if they won't sign a waiver or reroute the line.

Permian will continue to seek approval of remediation work plan from OCD so both agencies concur with field objectives.

Permian will try to summarize all research pertaining to Phase 2 purple outlined areas to 'make our case' that these are not a result of the Kaiser #009 incidents.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday September 8, 2021

Adjourn: 8:38 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

____ s

Site outline

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #7 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 09/08/2021

Meeting Time: 8:03 am, Wednesday September 8, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, September 15, 2021

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Clair Gonzales	432/260-8634	Clair.gonzales@tetratech.com	Tetratech
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions
Cory Smith	505/419-2687	Cory.Smith@state.nm.us	NM Oil Conservation Division

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

There are no outstanding RFI's.

The temporary fencing is complete around new access road and laydown area across the road. The berms and liner are in place at the staging area across the road.

Test well #2 has been drilled and set as a monitoring well, MW-1. Tetratech obtained samples Friday, August 27, 2021. Groundwater was at 71'. Samples were received last night; they showed no benzene or BTEX, but chloride concentrations of about 3500. They forgot to test for TDS and have

asked the lab to do this. Results will be sent to the SLO and OCD. Cory asked if we had sample of produced water from tanks to know its chloride concentration, but we do not.

Cory/OCD wants to see the drilling logs and well construction. Tetratech will send their logs to Dusty and he'll obtain the drilling logs and well construction from Atkins Engineering to forward everything to Cory and SLO.

Safety: Concerns with DCP line being active and affecting Phase 2 excavation.

Site Observations: Had some rain but not enough to shut down fieldwork.

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Fencing and containment built and lined. Still hauling dirt and stockpiling. Dusty could use more trucks to get it done faster but that has been difficult to find. They are still working to get to total depth so Clair/Tetratech to perform sampling. Dusty conservatively estimates they are about 55% there.

Cory/OCD has reviewed the Tetratech remediation work plan dated January 2020 and the SLO plans. He asked Dusty to submit both directly to him as a single file with a C-141 with all incident numbers listed. He'll expedite on OCD's end with their conditions for approval and he will send it to SLO so there is no competing data between agencies. Cory wants sampling protocol to be 400 square feet, 20' x 20', grab samples. It was 200 square feet before. Ryan approves this.

Cory/OCD mentioned their top 4' has different closure criteria but the SLO plan should cover that. They are OK with the 15' sampling depth; it may not be needed everywhere but needed at some depths so that is fine. OCD is not concerned with GCL until sample results are received. If it isn't necessary due to results being under sample limits, then we won't deal with it. Ryan is OK with this. If GCL is needed, OCD would prefer it to be 8' deep to get below the pipelines out there.

Cory/OCD requested sampling notifications be sent directly to his email and Ryan's and to physically mark sampling zones. Tetratech will flag them in the field and anticipates at least one week to obtain samples with two people sampling. Cory is good with backfilling after approved samples without seeking approval. Clarification of plan for digging out requested. Dusty and Clair are excavating all of the Phase 1 area, starting with the Eastern portion, treating the soil as contaminated, and then will begin sampling.

Weather Delays: 10-day forecast looks promising, no rain.

Two Week Look Ahead:

Hoping excavation will be completed and bottom will be reached so Clair/Tetratach can obtain samples. If he can find more trucks it could be completed quicker. Will use a machine in hole to shape up floor and walls to increase safety for testing portion.

Old fiberglass tanks are being stored on West side of site/Phase 2 area. Once Phase 1 is complete and backfilled, Josh will get involved with rebuilding the new tank battery. Need to have third party assess integrity of tanks to determine if they can be used. Old steel tanks were hauled off. When this stage is reached, Dusty will get with SLO with more details.

No new RFI's needed at this time. SLO will review OCD's conditions for approval. Cory hopes to complete this by end of this week, early next.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: Need to establish gameplan for DCP line.

Critical Path Considerations:

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Working on Phase 1 excavation. SLO and Dusty will continue to communicate with DCP regarding their active pipeline. DCP Midstream field rep Johnny Grenados met Dusty on site last Thursday August 26th to walk the line with GPS software. DCP rep will go up the DCP chain to relay the situation, so we are still in holding pattern with this. Dusty revised kmz showing updated data and circulated to all. He used Google Earth to overlay SLO remediation areas, asked if SLO had a GPS spot for anything and they did not, just Google Earth. While building the revised kmz he noticed the Southern line of the blue box is really close to Enterprise's ROW but it may be too soon to tell and we may not have to dig under it either. Dusty will make sure Cory has revised kmz. Relayed it's a 3" polyline and DCP is uncertain what it is carrying. They may have purchased the line and older pipeline records are dicey/hard to find. Faith has contacted the ROW division for 'as built' plats or something to help but hasn't heard back yet. Jenni asked if there was anywhere else that we could try to find pipeline plats or records and no one could think of anywhere else.
- 2. Test well #2
 - a. Well has been drilled and completed as permanent monitoring well. Samples obtained August 27, 2021 and need to test for TDS.

- 3. Phase 2 workplan, issued with this meeting request and by separate email on 07/23/2021
 - a. Purple outlined area research is still in progress. Jenni briefly spoke with Cory about these areas and he briefly looked and didn't see anything jump out. He mentioned the quality of the data may be bad for older incidents. These areas will not be considered for the OCD's conditions for approval. Jenni can request the OCD to help confirm why some incidents may not be closed out yet. They may have inspection notes not available to public. Dusty has field photos of plastic liner sticking out of ground we will include with summary.

Assign Follow Up Tasks For New Business:

Test well #2 laboratory results, logs, and construction data will be sent to SLO and OCD. SLO will discuss DCP pipeline issue internally with ROW and Legal. May need help putting pressure on DCP to respond.

Permian will continue to work with Cory/OCD to gain their conditions for approval. OCD will send their conditions for approval to SLO to review, so both agencies concur with field objectives.

Permian is working to summarize all research pertaining to Phase 2 purple outlined areas to 'make our case' that these are not a result of the Kaiser #009 incidents. Older incidents, inconsistent records, and multiple pipelines running through area have added more queries and research to sort through. Jenni is continuing to work on this and wants to be extremely thorough. Josh has been unable to review and weigh in also.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday September 15, 2021

Adjourn: 8:59 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

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Site outline

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Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excevate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- - Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #8 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 09/15/2021

Meeting Time: 8:05 am, Wednesday September 15, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, September 22, 2021

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

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Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Clair Gonzales	432/260-8634	Clair.gonzales@tetratech.com	Tetra Tech
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

There are no outstanding RFI's.

Test well #2 has been drilled and set as a monitoring well, MW-1. Tetratech obtained samples Friday, August 27, 2021. Groundwater was at 71'. Results for TDS showed 9,590 TDS. Results were sent to the SLO and OCD. Data needs to be discussed by SLO because it shows groundwater contamination.

MW-1 drilling logs and well construction from Atkins Engineering and handwritten drilling logs from Tetra Tech have been sent to Cory/SLO.

Safety: Concerns with DCP line being active and affecting Phase 2 excavation.

Site Observations: Had some rain but not enough to shut down fieldwork.

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Excavation is still underway. Dusty estimates they are at 65% with this stage. Dusty could use more trucks to get it done faster but that has been difficult to find. They are leaving an area intact to maintain current traffic flow pattern. They are still working to get to total depth so Tetra Tech can perform sampling.

Faith asked if there were any issues with people or critters coming on site. Dusty and his guys haven't seen cattle on site but they're seeing signs that something may be getting in although fences and cattle guard are intact. Game cams may be utilized to monitor overnight activity.

Cory/OCD sent a draft condition for approval to SLO, who will review and communicate with Cory. Dusty and Jenni will send Cory the merged work plans and C-141 he requested; it's just been busy.

Weather Delays: 10-day forecast looks promising, no rain. Although Dusty said this last week and it ended up raining a bit a few days.

Two Week Look Ahead:

Dusty still looking for more drivers/trucks to move more dirt. Still hoping excavation will be completed and bottom will be reached so Clair/Tetratach can obtain samples. Once he reaches depth it will slow down a bit as they shape up floor and walls to increase safety for testing portion.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: Need to establish gameplan for DCP line.

Critical Path Considerations: Nothing new, just getting enough trucks and making sure site is secure overnight.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Working on Phase 1 excavation. Still working on making contact with the right DCP personnel that can assist us. Faith spoke with Cory about this and he said generally speaking during a remediation like this the operator of the gas line can pressure it down during excavation but that agreement is between the two operators. Dusty has an idea that they could cut the line at the North and South side and loop it around to connect while during remediation. After they can lay it back in if necessary for ROW. Faith said if this becomes the plan they can help with temporary ROW approval. Dusty will call DCP again. Faith spoke with their ROW division and they're unfamiliar with this situation they think it's typically dealt with between operators.
- 2. Test well #2/MW-1
 - a. Well has been drilled and completed as permanent monitoring well. Samples obtained August 27, 2021.
- 3. Phase 2 workplan, issued with this meeting request and by separate email on 07/23/2021
 - a. Purple outlined area research is still in progress. We'd like to be able to include the new incident that was discovered yesterday. Jenni would like an idea of how many lines are running through this area.
 - b. Late yesterday, September 14th, Dusty received a call from his field guys about a busted line near the Kaiser laydown area across the road. They walked the line and found blue San Mateo flags from one call report. Jenni found San Mateo contact info linked to Matador on the OCD site. Dusty called Matador and found they are affiliated with San Mateo. They sent an inspector out to track line. He's 90% sure it's theirs and will track it back to the nearest meter. Dusty went on site today and can see where the line burst. He estimates it may be 25-30 bbls of water that looks pretty clean and the flags were blue for fresh water. He'll send a pin drop and pictures to SLO. Matador is supposed to send their safety team out for further inspection today; they thought it may be fresh water. Line is located 30-45' from road, near Kaiser laydown area and purple scarred area at a mesquite bush. Dusty said there are lots of lines out there above ground and dipping below ground. He doesn't believe a driver could have trucked over the line to cause it to burst.

Assign Follow Up Tasks For New Business:

Merged SLO and Tetra Tech work plans and C-141 to Cory/OCD.

Permian is still working to summarize all research pertaining to Phase 2 purple outlined areas to 'make our case' that these are not a result of the Kaiser #009 incidents. Faith acknowledged the lack of data that industry maintains on their lines and that SLO has been able to collect is unfortunate. We'd like to evaluate the recent incident with the Matador/San Mateo line.

Dusty will send new incident location and pictures to Ryan and Faith. He'll tell Matador they need to get with SLO about this.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday September 22, 2021

Adjourn: 8:54 am

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations***

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

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Site outline

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Phase 1 Remediation Area

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Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #9 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 09/22/2021

Meeting Time: 8:02 am, Wednesday September 22, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, September 29, 2021

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Cory Smith	505/419-2687	Cory.Smith@state.nm.us	NM Oil Conservation Division
Clair Gonzales	432/260-8634	Clair.gonzales@tetratech.com	Tetra Tech
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business: There are no outstanding RFI's.

Safety: Dusty unavailable.

Site Observations: Dusty unavailable.

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Excavation is still underway. Dusty emailed Faith on 9/21/2021 that he was unable to make the meeting but that they were still hauling dirt off to reach specified depth.

Dusty and Jenni sent Cory/OCD the merged work plans and C-141 he requested. Cory/OCD sent their conditions for approval to all parties including SLO via email on 9/21/2021. Cory has linked up the information to the OCD Online to each relevant incident number. Their timeline is 90 days for completion; however, an extension may be given with good cause as long as PWS can prove they are continuing to work towards the end goal.

Weather Delays: Cooler weather.

Two Week Look Ahead:

Dusty unavailable. Continuing excavation.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: Need to establish gameplan for DCP line.

Critical Path Considerations: Nothing new.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

1. Ryan Man has heard from Kayla Tilman w DCP to get a decision made about the gas line situation for phase 2 workplan. They will work with Dusty.

Assign Follow Up Tasks For New Business:

- 1. We will catch up on Dusty's question (email 2021-09-21) regarding joint conditions of approval in our meeting next week.
- 2. Cory Smith will be on leave and will not attend next week's meeting.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday September 29, 2021

Adjourn: 8:08 am

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations***

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site

Site outline

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Phase 1 Remediation Area

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Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excevate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ****



Progress Meeting #10 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 09/29/2021

Meeting Time: 8:11 am, Wednesday September 29, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, October 6, 2021

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

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Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Clair Gonzales	432/260-8634	Clair.gonzales@tetratech.com	Tetra Tech
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

There are no outstanding RFI's. DCP line and busted water line.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Excavation is still underway and they're at the point of stacking dirt on location that needs to be hauled off. There is a new delay with hauling the dirt off due to road construction on 176 at the entrance road to the lease. It's about ½ mile to East and 3 miles to West. The trucks are getting stopped and having to wait up to 15-20 min to pull out. It looks like they are expanding/widening the road. Everything is excavated except 30% is still intact for Phase 1. OCD's conditions for approval list a deadline right before Christmas. Hopefully Phase 1 will be complete, unsure of Phase 2 due to new traffic situation.

Dusty has spoken with Kayla in the DCP ROW Dept and one of their field ops guys. Yesterday they said they'd allow Dufrane to excavate around their line. They'll blow it down and isolate the line. They won't hold Dufrane or Permian responsible if there is damage to the line and they'll repair it if anything happens. Dusty suggested cutting and rerouting the line around the excavation area and they were not sure on this. It's about 120-150'of line. Dusty read their email to everyone. Faith requested getting something more official in writing from them on their letterhead and told Dusty to relay that SLO will need this. Dusty wants the location specifics tied to the agreement also.

Weather Delays:

Two Week Look Ahead:

Continuing excavation of last section, stockpiling dirt, and hauling bad dirt off. Reach 15' and clean hole up for Tetra/Clair to obtain samples.

SLO has authority to also obtain samples. When 15' is reached, they requested to give Ryan a couple of days' notice in case he wants to obtain samples or witness sampling. Tetra/Clair would like a week notice; scheduling is getting crazy for them.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: Road construction at 176 has created new logistical challenges with hauling the bad dirt off. Unsure how long they'll be working at this location.

Critical Path Considerations: Nothing new.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

1. Ryan Man has heard from Kayla Tilman w DCP to get a decision made about the gas line situation for phase 2 workplan. They will work with Dusty.

Dusty will work on getting DCP agreement on their letterhead about excavating around their line. OCD and SLO won't issue joint conditions for approval; they will remain separate but SLO is open to discussion on specifics if situation arises. They have different closure standards but there should not be too much difference. Sampling results are key to next steps. SLO hopes that so much material has been removed that the results will be acceptable. Do not backfill until samples are reviewed by all. SLO will try to review results quickly so there is not a big hole sitting in the field for an extended period of time.

2. Jenni is working on summary and exhibits for [Matador spill on 9/14/21]. They called Ryan and said they thought it was less than 5 bbls but have not followed back up when Ryan asked them for details. Ryan will reach back out to them. Dusty said the line has been fixed but it does not appear they have been out to remediate anything. Jenni did not find anything on the OCD site under their entity names or ULSTR yet. She can email Emily Hernandez to see if they received notification.

Assign Follow Up Tasks For New Business:

Dusty will obtain something from DCP relieving liability while working around their line.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday October 6, 2021

Adjourn: 8:28 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Sit

Site outline

- - -

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excevate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- - Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ****



Progress Meeting #11 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 10/06/2021

Meeting Time: 8:05 am, Wednesday October 6, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, October 13, 2021

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

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Faith Crosby	505/827-5849	fcrosb	y@slo.state.nm.us	NM State Land Office
Cory Smith	505/419-2687	cory.si	mith@state.nm.us	NM Oil Conservation Division
Dusty McInturff	617/584-2889	dmcin	turff@dufrane.com	Dufrane Construction
Jenni Usher	512/820-8772	jenni@	permianws.com	Permian Water Solutions
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Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business: There are no outstanding RFI's.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Dusty said they are in 'dirt hauling mode' now. There was heavy rain last Thursday-Friday with a shower over the weekend that shut the site down. They started hauling again yesterday since the site has dried out. Hauling is the current focus, but they'll get back to excavating soon hopefully. The road construction at 176 is still hit or miss with delaying truck traffic. It just depends on if you catch the through traffic when pulling out on to the road. Otherwise, you will wait a bit. The same section of road is still under construction as was last week.

The DCP agreement has not been formalized yet. Dusty sent Kayla with DCP an email request last week for something on their letterhead with more site details listed but he hasn't received anything back or heard anything back yet. He will reach back out to them by the end of this week. Faith asked how long the process of pressuring the line down may take. Dusty estimates 2-3 weeks depending on the depth of line and amount to excavate around it. Plus, they'll need to get Tetra Tech down in the hole and complete testing. Cory suggested to expedite the lab results and hopefully get results back in 1-2 days.

Weather Delays: Heavy rain on Thursday September 30 – Friday October 1. Another small shower over the weekend kept site from drying out until yesterday, Tuesday October 5.

Two Week Look Ahead:

Continue hauling dirt off and then they will finish the last bit of excavation work and clean the hole up for safe sampling by Tetra Tech.

Cory asked for more details on excavation – how many cubic yards, how many trucks, what type of trucks, time to landfill and back? Dusty said they have about 10-11,000 cubic yards left, and they consistently have six (6) belly dump trucks with 18 cubic yards capacity. It takes about 1 hour and 20 minutes to reach the landfill. Each truck takes about six (6) loads a day. It is estimated that it will take about 15 days to haul off the remaining 10,000 cubic yards, assuming there are no delays due to things out of our control (weather, labor).

Cory mentioned ways to expedite the process – more trucks, expedited lab results, hauling clean dirt in when trucks come back. Dusty acknowledged all of this and mentioned the trucks and labor sourcing has been an issue since the beginning of this project and is an issue in general in the oilfield as business has picked back up for everyone. It's been tough to secure since it must be contracted out.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate

sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: Road construction at 176 is still ongoing at this location causing slight trucking delays.

Critical Path Considerations: Nothing new.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Cory and Faith would like current site photos of the status of excavation with date and time-stamps. Dusty will obtain and email these to everyone.
- 2. Phase 2 workplan, issued by separate email on 07/23/2021
 - a. Cory will respond to Jenni's email that was sent to Emily Hernandez asking about the process and timeline for reporting spills to the OCD and incident numbers being assigned that are searchable to the public. The Matador/San Mateo flowline burst discovered on September 14 still has not shown up online. Faith is going to ask Ryan if he's received more information from them. We're uncertain of the amount and material that was released. Dusty will resend photos to Cory and Faith he took in the field. Cory said incident numbers are generated instantly online when an operator submits the notification of release. These are required to be called in within 24 hours if the amount exceeds 50 bbls liquid/500 mcf, reaches a waterway, causes a fire or injury. They must be submitted in writing within 14 days if the amount is 5 bbls liquid/50 mcf. It is possible paper filings mailed to field offices may take longer to be entered into the system, especially with teleworking from Covid. Cory said ultimately it is a selfreporting agency and they can't police everything in the field so if there's talk of a release that is older that is not online it is likely that it was not reported to them. Jenni mentioned not wanting to tattle-tale on other operators; the recent release just happened right near an area we are being asked to look into for the Phase 2 remediation plan. Cory said that if it's on our lease, the OCD and SLO could hold us responsible though. He'd like to see pictures.

Assign Follow Up Tasks For New Business:

Dusty will follow up with DCP to obtain something from them relieving liability while working around their line. He will also send pictures of the Matador/San Mateo burst line.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday October 13, 2021

Adjourn: 8:32 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

____ s

Site outline

Phase 1 Remediation Area

Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ****



Progress Meeting #12 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 10/13/2021

Meeting Time: 8:02 am, Wednesday October 13, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, October 20, 2021

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Cory Smith	505/419-2687	cory.smith@state.nm.us	NM Oil Conservation Division
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Clair Gonzalez	432/260-8634	Clair.gonzales@tetratech.com	Tetra Tech

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

There are no outstanding RFI's. No old business.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Dusty said they're continuing to haul dirt off and Monday they started excavating the remaining portion of Phase 1.

Dusty has not heard from DCP at all regarding the formal letter from them relieving liability of damage to their line during excavation around it. He's called and they have not returned his calls. He'll keep trying to get something from them. Ryan has not heard from them either. Faith said as long as we're in accord and we have record that Dusty has been trying to reach out, then our records will show that DCP has not done what has been requested by Dufrane, to <u>put in writing</u> DCP's agreement to; 1. allow excavation around their line, and 2. accept the responsibility for any damages.

Weather Delays: No rain delays. It's getting chillier outside.

Two Week Look Ahead:

Continue hauling dirt off and then they will finish the last bit of excavation work and clean the hole up for safe sampling by Tetra Tech. They've scheduled Tetra Tech to begin testing on Monday, October 25. Clair said they're aiming for five (5) days of testing with two people on location. The samples will not be expedited at the lab. They'll turn in samples at the end of each day to avoid overwhelming the lab. It should be a standard 5-day turnaround.

Cory asked for more details on excavation – how many samples, how are they marking, and reminded them to email 2-day notification to OCD and SLO. Clair said 200 samples and for every 400 square feet they'll collect a 5 point composite sample. She noted they will pin flag the corners of the sample location versus the center, per Cory's suggestion.

Cory asked for the status of field photos. Dusty will take them today while he's on location and email to OCD and SLO.

Dusty confirmed that the truck situation is still the same; they're doing what they can with what they can find. The road construction has opened up both lanes. Equipment is staged on location so work is not completed, but it is not active at the moment in front of our lease road egress.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

Critical Path Considerations: Nothing with Phase 1. Jenni is still working on the Phase 2 issues.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Cory, Faith and Ryan would still like current site photos of the status of excavation with date and timestamps. Dusty will obtain and email these to everyone.
 - b. Continue excavation so sampling can take place.

Assign Follow Up Tasks For New Business:

Dusty will continue to follow up with DCP to obtain something from them relieving liability while working around their line. He will also send current photos of the status of Phase 1 excavation to OCD and SLO.

Jenni needs to circulate last week's meeting #11 minutes for 48 hr review to all.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday October 20, 2021

Adjourn: 8:16 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site outline

Phase 1 Remediation Area



Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 7,000 mg/kg CI*
 - STEKNO
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ****



Progress Meeting #13 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 10/20/2021

Meeting Time: 8:09 am, Wednesday October 20, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, October 27, 2021

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Cory Smith	505/419-2687	cory.smith@state.nm.us	NM Oil Conservation Division
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

There are no outstanding RFI's. The 'Purple Area Phase 2 Summary' is still outstanding from Permian. Jenni should have it wrapped up on her end to send to Josh for review within the next week.

A letter from DCP relieving Permian and Dufrane from damage liability has not been completed yet. They sent a letter that was lacking detail. Dusty emailed Kayla/DCP yesterday asking for more detail and if they'd consider letting Dufrane reroute the 120' of pipe during excavation. He mentioned they have certified poly-welders that can put it back together. He spoke with Johnny, their field rep, about this and they both agreed it would be a good idea. This would avoid a line hanging at 5-8' since excavation depth is 15'. Cory/OCD suggested excavating, testing, and backfilling sections so the entire

line isn't suspended and using sandbags or props to hold the line up. Dusty acknowledged; it would just add more time versus cutting the line and performing mass excavation and testing.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Dufrane is still excavating and hauling dirt off. They have contacted Centennial regarding their adjacent lease and the Southern wall of the 'pit'. They're working on benching and cleaning up the pit for testing.

Weather Delays: None.

Two Week Look Ahead:

Dufrane hopes to finish up the detail work in the pit this week so the Tetra Tech technicians can start sampling. They are scheduled to start Monday, October 25, 2021 and it should take 5 days. Dusty emailed SLO and OCD this and will email them if anything changes. Dufrane will continue to haul old dirt off (not excavate) and stockpile clean dirt during testing. Hopefully soil samples will be clean, and they can backfill. Dirt must continue to be hauled off to accommodate space before more excavation can be done. We'll need Josh on a call soon to discuss the options for setting up the new tanks after Phase 1 completion, and see if that is still his plan. OCD doesn't have issue with this, just that Permian must have all phases completed before injection authority can be reinstated.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

Critical Path Considerations: Nothing with Phase 1. Jenni is still working on the Phase 2 issues, but Dusty has concerns with the areas across the road. There are lots of lines running through the purple areas. He isn't sure where they go; he's followed some 2 miles in the field. The Goodnight line is underground. He expects delays with communication trying to figure this out within the current time frame. Faith/SLO said those areas may not be taken into consideration with Phase 2, but rather Phase 3. They will discuss internally. Cory/OCD said the purple areas aren't in the ROW for the well pad, which is their main concern.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Dusty has conveyed to Faith and Ryan concern with the Southern wall of the Phase 1 pit. It is very close to the adjacent Centennial lease and he is concerned with having enough room to safely benchmark and excavate. SLO provided Centennial contacts and Dusty spoke with 5-6 people. They came out and flagged their assets this morning, October 20, 2021. There's 20' to their lease and 44-45' to their wellhead. Centennial wanted to view our test results. Dusty updated his one call and had to manually include Centennial as they do not show up.
 - b. Cory and Dusty discussed soil composition and excavation techniques. It was suggested that an excavator can take samples if getting in the pit is not safe. Details of the Centennial well, 30-025-20461, Wilson Deep Unit #1 were discussed relating to their old reserve pit and where it may be located, if it is near where we are sampling or if it could have been located on the Kaiser lease. The location of 40' is getting close to where their reserve pit may have been located and their lease is very small so there aren't many places for the reserve pit to have been located. Dusty hasn't seen any plastic liner peeking up on location, although the well was drilled in 1963 and there may not have been a plastic liner. Cory said it was kind of dangerous to dig so close into their site since it may dig into their contamination. Our tank battery could have been on top of their reserve pit. When Tetra Tech last sampled, the old tank battery area had the worst results. Cory suggested sampling in two halves – top half 0-8' and then lower half because if they've leaked into our site this may be evidenced in the deeper portion. Sampling all at once may not reveal this. He also said that most spills are from reserve pits or tanks, not the wellbore. Jenni mentioned her research had revealed a few spills on the Centennial lease that were old and had no information linked up; they are also not linked up to the well details on the OCD site. Dusty asked if we'd be on the hook for remediating if it was from Centennial's lease and that there's been so many operators in this area it's hard to know who was where first. Example of the Kaiser site being on top of the existing DCP line. Faith said we'd have to see what the samples show and to plan to excavate onto the Centennial lease down to 15' and bench as required.

Assign Follow Up Tasks For New Business:

Dusty will continue to follow up with DCP to obtain something more detailed from DCP relieving liability for damages to their line during excavation. He'll keep SLO in the loop.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday October 27, 2021

Adjourn: 8:55 am

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations***

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

____ s

Site outline

- - -

Phase 1 Remediation Area

*

Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ****



Progress Meeting #14 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 10/27/2021

Meeting Time: 8:03 am, Wednesday October 27, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, November 3, 2021

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions
Jenni Usher Clair Gonzales	512/820-8772 432/687-8123	jenni@permianws.com Clair.gonzales@tetratech.com	Permian Water Solutions Tetra Tech

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

A letter from DCP relieving Permian and Dufrane from damage/financial liability has not been completed yet. Dusty has not heard back from DCP after requesting this. He will keep Faith/SLO in the loop if SLO needs to step in and contact DCP. There is still some time before this is critical.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Dufrane finished up the pit and sampling started on Monday. They're still hauling dirt off. They were able to dig and bench at the South wall adjacent to the Centennial lease. They did dig 15' onto the Centennial lease. They cannot dig much further in due to the location of the wellhead. The South wall looks problematic, but they hit rock at the bottom of excavation. Hopefully sampling will be completed this week and we'll all await results.

Weather Delays: None.

Two Week Look Ahead:

Finish sampling and receive lab results by end of next week. Continue to haul the dirt off. Pending lab results, the next step would be to backfill the pit and subgrade to prepare for new containment and battery. The plan is still the same, just had to remove more dirt than anticipated initially. Backfilling would begin at the North side of the pit. There are operators interested in sending their water when facility is complete. The OCD conditions for approval have a deadline just before Christmas. This is obtainable if everything goes perfectly. Cory Smith/OCD was on site Monday and Dusty walked him around. He was not on the call today, but Dusty said he seemed content with the progress and that Permian is working towards completion. As long as we're still making progress, the OCD will work with Permian on the deadline.

The plan for sampling was prepared by the Tetra Tech field tech. He spent the first day on location gridding and mapping the site. It appears he is starting at the North side and working South, sampling the side wall first, then the floor.

The South side of the pit hit rock. Dufrane would have to blast the rock or hammer hoe the rock to break it up if further excavation is necessary. Faith/SLO said they wouldn't require Dufrane to blast or hammer the rock. Dusty spoke with Cory while he was on site about the rock permeability and possibility of having to excavate the rock. It appears that the rock would be an acceptable stopping point preferably. Cory/OCD noted that the remediation in the rocks/etc would be dependent on the delineation data that would be required. Lab results will be a key component.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

Critical Path Considerations: Nothing at this time.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Wait for lab results to determine next steps.

Assign Follow Up Tasks For New Business:

Dusty will continue to follow up with DCP to obtain something more detailed from DCP relieving liability for damages to their line during excavation. He'll keep SLO in the loop.

Jenni has sent the purple area summary for review internally. Hopefully it will be ready to submit to SLO next week.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday November 3, 2021

Adjourn: 8:26 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

____ s

Site outline

- - -

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****Flan may change subject to sample data from spill and water testing ****



Progress Meeting #15 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 11/03/2021

Meeting Time: 8:03 am, Wednesday November 3, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, November 10, 2021

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Josh Brooks	617/584-2889	josh@permianws.com	Permian Water Solutions
Cory Smith	505/419-2687	cory.smith@state.nm.us	NM Oil Conservation Division

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

A letter from DCP relieving Permian and Dufrane from damage/financial liability has been received. They did not address cutting the line and rerouting during excavation. A field rep, Chase Guy, and field supervisor, Claudia Dabney, were listed on the letter. Dusty will reach out to them about cutting the line. A DCP field rep will be on location during excavation; it may be determined in the field that cutting the line is acceptable once they see what is going on.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Tetra Tech completed field sampling Thursday afternoon and completed notes and mapping on Friday. So far there have not been any lab results received. Tetra Tech does not anticipate needing to go back on site this week. They took 167 samples. They didn't field screen all the samples, but they did spot-check them. A couple of spots looked questionable along the South side. The lab called Clair/Tetra Tech to let them know they were backlogged and would not meet the standard turnaround time. She asked for preliminary samples to be sent as they have them.

Dufrane continued to haul off bad dirt and monitor the sampling process. He will continue to haul off bad dirt and bring clean dirt in while awaiting lab results.

Cory/OCD joined call and explained his statement from the #14 minutes that remediation in the rocks/etc would be dependent on the delineation data that would be required. He said that liquid in soil versus rock moves differently. OCD requires operators to delineate and see what's in the rock. Sometimes they let them leave it and sometimes they do not. So lab results are key. Cory thought most samples looked like they were pretty clean except the SW corner.

Faith/SLO asked how the OCD handles situations with remediation when it's right against another lease. Cory/OCD said he'd need to check but based on his field observations it was not likely Centennial's. Aerials show the Centennial site has been set up the same way for a long time. The wellhead is close but it's not likely the contamination source. More delineation data would be needed, sampling in high-low pattern to show contamination pattern to try to prove contamination source.

Weather Delays: None.

Two Week Look Ahead:

Hopefully soil samples are clean, and they can start backfilling with clean dirt and hauling off bad dirt. The plan is that if samples are clean, they'll backfill from the North end to the South end. Truck traffic will continue in a large circle hauling out bad dirt, hauling in clean dirt.

Clair will circulate results when received. She'll include a kmz file with a field map with slopes and everything needed to understand the sample locations.

Cory/OCD said they reached out to Matador about the pipeline burst that we let them know about last month. They said it was 5 bbls, so not required to report. OCD will keep on it; they had a large release in Carlsbad they've been working on. Dusty is glad Cory came out to the field to lay eyes on everything out there.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

Critical Path Considerations: Just need to figure out the South side and working around the DCP line soon.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Wait for lab results to determine next steps. Hopefully we'll have some by the end of this week, early next week.

Assign Follow Up Tasks For New Business:

Dusty will continue to follow up with DCP to see if they'll allow Dufrane to cut the line during excavation.

Jenni has sent the purple area summary for review internally. She asked Clair/Tetra Tech for assistance. Hopefully it will be ready to submit to SLO by the end of this week.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday November 10, 2021

Adjourn: 8:34 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site outline

Phase 1 Remediation Area

Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- - Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ****



Progress Meeting #16 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 11/10/2021

Meeting Time: 8:04 am, Wednesday November 10, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, November 17, 2021

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
T 'TT 1			
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions
Jenni Usher Clair Gonzales	512/820-87/2 432/687-8123	<u>Clair.gonzales@tetratech.com</u>	Permian Water Solutions Tetra Tech

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

A letter from DCP relieving Permian and Dufrane from damage/financial liability has been received. They did not address cutting the line and rerouting during excavation. Dusty spoke with a new DCP contact Monday that told him that if Dufrane/PWS wants to cut and reroute the line then they would be financially responsible for cutting, storing, and reinstalling the line for service. He is going to send Dusty a cost estimate for this. We're about a month out from this phase of the fieldwork, depending on the test results and backfilling progress. The current understanding is that the financial

responsibility is negated if Dufrane damages line during excavation, but not to remove it up front. Dusty is dealing with a whole new set of people within DCP now.

Update on Matador/San Mateo line burst from September: Dusty said it looked like someone had been out to scrape the surface in a 50' x 50' area around the incident location. Unsure where the bad dirt went (possibly our bad dirt pile - haha). Cory/OCD asked if they cleaned up the lines out there and Dusty said it looked like there were still pieces of cut up pipe out there. Cory/OCD had asked them to file a C-141 and he'll check in with his coworker Chad for progress.

Clair/Tetra Tech received preliminary data from the lab this morning. They still need to undergo QAQC procedures, but hopefully results will come in this afternoon. She did a quick run through of the 200 pg summary and thinks the results look like we'll be OK. Some TPH levels were a bit high – she needs to look further into these locations. Chlorides appeared below 7,000, a couple may have been at 9,000, she needs to verify this. A couple of spots had nominal BTEX but were still under the OCD threshold. Clair emailed her kmz sampling map to everyone. She'll update this map and circulate a final when all results are in.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Dusty said more dirt was hauled off and clean dirt was brought in. Basic site cleanup. He had to pull a couple of guys off the Kaiser to work other jobs.

Weather Delays: No cause for delay. Foggy and cooler temps in the AM.

Two Week Look Ahead:

Waiting on samples and analysis. If all is good, backfill starting at North end working South. Continue to haul dirt. Personnel can be pulled back in when needed to backfill.

Clair/Tetra Tech's goal is to receive all the data from the lab and create analysis table with detailed sampling map to circulate for everyone's review.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: The road construction has started up again; it is causing slight delays with hauling dirt due to one lane being open.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Wait for lab results to determine next steps. Hopefully we'll have them this week.

Assign Follow Up Tasks For New Business:

Jenni is finalizing the purple area summary and will send to Faith and Ryan within 24 hours.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday November 17, 2021

Adjourn: 8:21 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Sit

Site outline

Phas

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- **** Flan may change subject to sample data from spill and water testing ***



Progress Meeting #17 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 11/17/2021

Meeting Time: 8:02 am, Wednesday November 17, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, December 1, 2021

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

A letter from DCP relieving Permian and Dufrane from damage/financial liability has been received and forwarded to the SLO. Dusty has not heard back from Steven Wynn since they spoke last week about the cost estimate for cutting and rerouting the line during excavation. Faith/SLO said they may have to issue a letter to DCP that they would be responsible for contamination under the line because it is in the area that SLO wants PWS to dig.

Cory/OCD checked with his coworker Chad on the status of the Matador line burst. He said Matador is awaiting sample results for closure. They were asked to submit a release notification to get something in the OCD system. Faith/SLO asked for the OCD to share the sample results upon receipt.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Similar to last week, Dusty said more dirt was hauled off and clean dirt was brought in. They've been on autopilot with this while the soil sample results come in.

Soil sample results discussion – Ryan/SLO said most results were below the 7,000 mg/kg chloride and 1,000 mg/kg TPH threshold. There was some contamination in the SW corner they'd like to see removed. SLO is unsure if it's a safety issue to dig out 10' safely around DS-2, DS-3 and SW-6, NE side and SW side. SLO also wants removal on the way out at SW-01 on the NE side by the ramp. They asked how clearly the DCP line was marked in the field. Dusty said he's asked them to come out to mark it with wooden stakes instead of flags so it's easier to see but they have not done this yet. Ryan will try to get a hold of Kayla or Claudia with DCP to see if SLO can expedite getting the line marked because they'd like to see 10' excavation and backfilling started this week. They want 10' removed entirely, not sampled.

Cory/OCD comments on soil samples – none of the sidewall (SW) samples meet OCD threshold because they're over 6,000 mg/kg in the top 4'. He'd like a background area sample for comparison to see how salty the soils are in that part of New Mexico. Clair can try to grab a sample upgradient. He's OK with backfilling boreholes to 6'. For the SW corner, he'd recommend digging 4' out and it should be safer for OSHA and benching is not required. The top 4' are an issue for him since they exceed 6,000 mg/kg chlorides. He's wondering if 10' off the sidewalls with delineation holes will give us a a better idea. SW-5 failed, but since it's so close to the other operator's lease he doesn't want to chase that down. SW-4 and 5 were over. SW-17, 18, and 19 results were a little lower. He suspects we're at the tail end of contamination due to the depths.

Clair/Tetra said the last samples of this area were from 2019. SW-4 and SW-5 samples were clean at that time. She'll review the old data in detail and come up with a gameplan for everyone's review to address the top 4'.

Cory/OCD thought it made more sense to dig down to 4' and sample versus digging out 10'. He said it may end up going to 10', but the blue area benched and BH-13 and 14, SW-20 showing good numbers so the impact may be from something else. He suggested hydro excavating the DCP line so it is easier to see in the field since PWS needs more excavation towards the direction of the line.

Clair/Tetra confirmed next steps – issues are with SW-1, 3, 6, 7, 8, 9, 10, and 11. Moving out 10' laterally to 4' deep to obtain more samples, possibly using a backhoe to dig a trench and collect test holes may be best option. Tetra uses two different field screening methods to test in field. If field screen results are unfavorable, lab results will be necessary for official results. Dusty will try to push DCP to mark their line. Cory and Faith are good with backfilling the orange area to 6'. The use of GCL liner will not be required.

Weather Delays: No cause for delay.

Two Week Look Ahead:

Begin hauling good dirt into excavation area in preparation for backfilling while avoiding western edge of pit. Continue hauling bad dirt off location.

Dusty will give the field guys Wednesday-Friday off for Thanksgiving Holiday next week. We will all take off from next week's call for the holiday as well. Correspondence regarding the DCP line and further sampling will still take place between all parties.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Further sampling needed laterally out from SW-1, 3, 6, 7, 8, 9, 10, and 11 at 4' deep. Background Chloride sample needed for OCD. Clair/Tetra to coordinate.

Assign Follow Up Tasks For New Business:

Try to get DCP out on location to mark their line where it runs through PWS's facility.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday December 1, 2021

Adjourn: 8:39 am

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations***

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

____ s

Site outline

Phase

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ****



Progress Meeting #18 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 12/1/2021

Meeting Time: 8:02 am, Wednesday December 1, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, December 8, 2021

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Cory Smith	505/419-2687	cory.smith@state.nm.us	NM Oil Conservation Division

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

DCP agreed to flare the sour gas off their line, isolate it, and remove their line. They will not hold Dufrane or PWS financially responsible for any damages. Dusty will keep everyone updated on further communication with DCP and status of the line removal.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Similar to last week, Dusty said more dirt was hauled off and clean dirt was brought in as they back fill.

Tetra Tech was in the field doing field screenings in the areas of concern. They kept hitting refusal at about 1'-2' in all locations they needed to sample so they had to stop and reassess. New plan is to excavate out 10'W to 15'W x 4' deep and various lengths per sections of the pit wall.

Dusty said they are removing spoils from the north side pit side stockpile to access the areas to further excavate and can commence on the east side. The DCP line needs to be removed to complete excavation on the west side.

Weather Delays: No cause for delay.

Two Week Look Ahead:

Continue hauling bad dirt off location and bringing in clean dirt to back fill. Work on digging the horizontal lines out for resampling.

Plan for DCP to come out and remove their line so the west side can be accessed.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Further sampling needed laterally out from SW-1, 3, 6, 7, 8, 9, 10, and 11 at 4' deep. Background sample needed for OCD. Clair/Tetra to coordinate.

Assign Follow Up Tasks For New Business:

Try to get DCP out on location to mark their line where it runs through PWS's facility.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday December 8, 2021

Adjourn: 8:18 am

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

____ s

Site outline

Phase 1 Remediation Area



Test Well #2

***Plan may change subject to sample data from soil and water testing. ***



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- - Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ****



Progress Meeting #19 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 12/15/2021

Meeting Time: 8:02 am, Wednesday December 15, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, December 29, 2021

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
575/392-8736	rmann@slo.state.nm.us	NM State Land Office
432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
	575/392-8736 432/687-8123	

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Dusty and Cory were unable to join the call today. Cory sent an email to Dusty late last night requesting a formal extension request and date for completion of certain field requirements since it does not appear the December 22, 2021 deadline for the OCD Conditions for Approval will be met. We will discuss further when both are available.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Since Dusty was unable to join the call today there is nothing to speak of for prior week performance.

Clair was able to update that they are working to get the horizontal lines dug out and once complete they will resample.

Weather Delays: No cause for delay.

Two Week Look Ahead:

Dusty emailed that they'll continue to haul off bad dirt and back fill with clean dirt as well as excavation. His email stated that they are looking to complete additional excavation on the north and east side tomorrow, 12/15/2021.

DCP said they would be out to remove their line this week, but they had not made it on site as of 12/14/2021. The west side excavation will commence once DCP has removed their line.

Next week's meeting will be canceled for the Christmas holiday, but if anyone needs anything they can email/call Faith and Ryan.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

Merchant Livestock has questioned the source of the caliche that Dufrane is bringing in. Ryan and Faith said that they do not have standing in this project and we do not need to give them any information if they reach out to us. They are the lessee, not landowner.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Further sampling needed laterally out from SW-1, 3, 6, 7, 8, 9, 10, and 11 at 4' deep. Background sample needed for OCD. Clair/Tetra to coordinate. Soil to be removed.

Assign Follow Up Tasks For New Business:

Dusty and Permian need to formally request an extension to the OCD's Conditions for Approval by December 20, 2021 and show good cause for why an extension should be granted.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday December 29, 2021

Adjourn: 8:12 am

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site

Site outline

Ph:

Phase 1 Remediation Area

Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #20 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 12/29/2021

Meeting Time: 8:01 am, Wednesday December 29, 2021

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, January 5, 2022

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Cory Smith	505/419-2687	cory.smith@state.nm.us	NM Oil Conservation Division
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Josh Brooks	617/584-2889	josh@permianws.com	Permian Water Solutions LLC

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Dusty and Cory were able to join the call today. Dusty sent an email to Cory on December 20, 2021 requesting a formal extension to the OCD current conditions for approval since the December 22, 2021 deadline for the OCD Conditions for Approval was not met. Cory has been out of office and will respond after he reviews the request.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

DCP removed their pipeline and excavation is complete along the North, East, and West sides of the pit. Approximately 75% of the initial phase 1 area has been backfilled to the first bench height of 7-8'. The North, East, and West walls aren't completely backfilled though since some sampling is still taking place and they don't want any potentially spoiled dirt to slough into the clean backfill. They're still hauling bad dirt out and bringing clean dirt in to backfill. The North side is completely clear, but the West side still has approximately 70% of the bad dirt to remove from location.

Tetra Tech was on location last Thursday the 23rd to obtain soil samples. Lab results are expected at the end of this week or early next week. The field tech, Zeke, indicated that the North and East sides looked OK, but the West side may require further excavation. Results will determine the next steps.

Weather Delays: No cause for delay, just windy.

Two Week Look Ahead:

Dusty emailed that they'll continue to haul off bad dirt and back fill with clean dirt. Josh said they're trying to stay methodical with the process in the field as the scope of work continues to increase.

DCP indicated they'd like to put their line back in the same location and there has been no determination of when this may need to take place. We'll wait for lab results before reaching out to DCP on this.

Cory said that additional conditions of approval are to be expected. The timing of removing spoiled soils from location isn't efficient and 70% left is too much. He said they need to utilize more equipment and more resources to move this forward quicker. Faith also agreed that they'd like to see this done quicker and asked if it was possible to dedicate more resources.

Josh and Dusty think the equipment on site is sufficient, but the trucking has been the biggest hold up. Right now three trucks are down awaiting parts to be shipped so repairs can be made. Supply chain issues are delaying the parts from arriving. Original scope of work was 14,000 cu yds and is now

at 24,000 cu yds, and further excavation may still be needed along the West side of phase 1 moving towards the phase 2 area.

Cory responded that initial planning with delineation efforts could have helped anticipate if/where further sampling may have been necessary. He said based on the lease history it could have been anticipated that the scope of work would likely increase.

Faith agreed we all want this done quicker. There is still another location, the Dorstate, that will be the next large remediation project. Faith will be working from Michigan for the unforeseeable future and Ryan may need to take over some meetings.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

More trucks are needed to continue to haul the bad dirt off location quicker. This has been a constant struggle.

OCD conditions for approval deadline of December 22, 2021 was not met.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Soil sample results needed to determine if further excavation is necessary, or if backfilling can commence to close out phase 1.

Assign Follow Up Tasks For New Business:

Cory/OCD to review Permian's request for an extension to the OCD's Conditions for Approval and provide response.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday January 5, 2022

Adjourn: 8:17 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - o SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.
- **Plan may be subject to change depending on data from soil and water samples.**
- ***SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site outline

Phase 1 Remediation Area

Test Well #2



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excevate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #21 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 1/5/2022

Meeting Time: 8:08 am, Wednesday January 5, 2022

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, January 12, 2022

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Dusty sent an email to Cory on December 20, 2021 requesting a formal extension to the OCD current conditions for approval since the December 22, 2021 deadline for the OCD Conditions for Approval was not met. Cory has not responded yet.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Dusty said they continued to backfill the pit except along the Western edge of the pit. They left a section to the North open for truck traffic flow. He estimates 90-95% has been backfilled to 7-8'. 30-35% more of the spoiled dirt along the Western edge of the pit has been removed.

Soil sample results were received from the lab last night. The North and East sidewalls were below 600 mg/kg chlorides and the OCD regs. The West sidewalls were not. The top 4' is still pretty hot. They took 5-point composites per section so they can't tell the contaminated depths between 0-4', probably all 4'. It's more horizontal delineation moving out West, so expanding further out to the West. It may merge into phase 2.

The wellhead is about 15-17' away on the West side. Dusty asked how close they should get to it? None of us are sure. Clair said she thought 5-10' because it's a safety issue. We need Ryan and Cory to weigh in on this.

Weather Delays: It's getting colder, but the forecast shows sunny skies until this weekend. Then partly cloudy.

Two Week Look Ahead:

Dusty said that they'll continue to haul off bad dirt and backfill with clean dirt. Since the North and East results were acceptable, Faith said Dusty can continue to backfill those and maybe up to the first bench on the West side. Dusty said there are now 3 benches along the West side.

Clair will summarize findings for Ryan and Cory to review to determine next steps.

Hopefully we can come up with a practical plan between all of us on how to continue with phase 1 and into phase 2. We expected the West side to be troublesome due to the location of the flow lines and load lines.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate

sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

OCD conditions for approval deadline of December 22, 2021 was not met.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Soil sample results from Western wall need to be analyzed by Ryan and Cory.

Assign Follow Up Tasks For New Business:

Cory/OCD to review Permian's request for an extension to the OCD's Conditions for Approval and provide response.

Clair to summarize soil sample lab results for Ryan and Cory to review and assist with determining next steps along Western side of phase 1 pit.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday January 12, 2022

Adjourn: 8:21 am

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site outline

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - All areas not noted in key, excavate to 6'.
 - Final samples to the following closure criteria:
 - 1,000 mg/kg TPH.
 - 7,000 mg/kg CI* - STEKNO
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

- - Completed/Out of scope areas
- - Areas of 15' excavation
- - Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days. **
- and len may change subject to sample data from spill and water testing that



Progress Meeting #22 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 1/12/2022

Meeting Time: 8:00 am, Wednesday January 12, 2022

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, January 19, 2022

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Dusty sent an email to Cory on December 20, 2021 requesting a formal extension to the OCD current conditions for approval since the December 22, 2021 deadline for the OCD Conditions for Approval was not met. PWS has not received a response from Cory/OCD yet.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Dusty said they continued to backfill the pit except just along the Western edge of the pit. He estimates 90-95% has been backfilled to top bench at 8'. There is approximately 10% left of the bad dirt remaining along the Western side of the pit to haul out. Hopefully it will be removed completely by early/mid next week.

There has been no further excavation at this time until Ryan and Cory can coordinate on the soil sample results taken 12/23/2021 and the remaining hot areas. Proximity to the wellhead and safety excavating around it is the concern.

Weather Delays: There was a little bit of moisture yesterday, not much. It's windy and partly cloudy. 10-day forecast looks clear.

Two Week Look Ahead:

The rest of the spoiled dirt will be hauled off. They will continue to backfill the pit all the way around except for the Southwestern edge with hot sidewalls. That will remain at current backfill level until further excavation plans are stated.

Dusty said they have a couple of their trucks back on the road and were able to outsource a couple more. He reiterated that there is just a lack of CDL drivers in general. He can spend a couple of days just calling around looking for trucks, but it's mainly the drivers that are lacking. Conversation on the influx of Cuban truckers who obtained their CDL from Florida and headed West looking for work. Their experience is not up to par. There is also no young generation coming up to drive trucks and the older generation is retiring, so there are less drivers available in general. Less places for truckers to stop and rest when they hit their hours; Covid closed some rest stops down; now hiring CDL signs up around the Permian.

The three sidewall locations that exceeded the thresholds need to be reviewed by Ryan and Cory so they can determine how PWS can move forward in the field. It was mentioned that this area of Phase 1 may blend into Phase 2. This area is where the old unload station was located and various flow lines that ran to the wellhead. It's likely that historically waste haulers spilled in this area as they unloaded.

Dusty measured the wellhead is 30' away now. He thinks a 20' radius around the wellbore would be good since it's an old wellbore and he doesn't want to damage it. Ryan mentioned seeing if the OCD could defer the full cleanup around the wellhead until the well has been plugged, as part of that surface cleanup process. Then they can work around it for now.

Faith asked about the DCP line. If the line was still in the ground, it would be exposed. Dusty said the line was about 2.5' deep and they've excavated about 4' under it. It's in the current excavation area.

Dusty mentioned him and PWS want this cleaned up and the intent is to bring it back to active injection. They are cleaning up years of pollution from other operators unfortunately and it's taking longer than the OCD conditions for approval timeline or a normal remediation.

Discussion on whether starting Phase 2 is OK. Ryan is OK with it if it keeps them moving forward in the field. If Phase 1 Western wall blends into right into Phase 2, Josh will need to get involved to discuss rebuilding the tank battery. The last KMZ #7 layout didn't look like the new tank battery location would affect Phase 2 excavation, but it will reroute traffic flow. We're unsure if the OCD will allow PWS to rebuild the battery prior to Phase 2 completion. We'll also need to discuss how the remaining hot areas of Phase 1 are to be dealt with. Perhaps the wellhead ends up being an area that is left intact while excavation takes place all around it.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

OCD conditions for approval deadline of December 22, 2021 was not met.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Soil sample results from Western wall need to be analyzed by Ryan and Cory.

Assign Follow Up Tasks For New Business:

Cory/OCD to review Permian's request for an extension to the OCD's Conditions for Approval and provide response.

Soil sample results from Western wall need to be reviewed by Ryan and Cory to determine the next steps in the field. Safety radius around wellhead needs to be determined.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday January 19, 2022

Adjourn: 8:30 am

- *Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct
- ***SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations***

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

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Site outline

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Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 7,000 mg/kg CI*
 - STEKNO
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- - Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #23 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 1/19/2022

Meeting Time: 8:04 am, Wednesday January 19, 2022

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, February 2, 2022

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

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Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Cory Smith	505/419-2687	cory.smith@state.nm.us	NM Oil Conservation Division
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Dusty sent an email to Cory on December 20, 2021 requesting a formal extension to the OCD current conditions for approval since the December 22, 2021 deadline for the OCD Conditions for Approval was not met. Cory asked PWS for additional information that is due 1/21/2022. Cory wants dates for removal of Phase 1 dirt, when Phase 2 will begin and when it will finish.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Dusty said there is about 4,000 yds of bad dirt piled up along the Western side left and a pile of 2,000-3,000 yards near the containment 50' North of the wellhead. They need to remove the scrap pipe that was dug up. They're closing the NE corner where the old ramp was up to 7'. Hopefully that will be closed up by the end of the week. A new ramp exists in the South-Southwest side of the pit. It's been built with clean dirt. New dirt is still being hauled in for backfill.

Weather Delays: Cold, but mostly sunny during the day. Pretty normal weather for this time of year.

Two Week Look Ahead:

Discussion on continuing excavation out along Southwest where hot spots were identified. 10' safety radius around wellhead determined. Cory/OCD would still want vertical delineation to take place to confirm extent of contamination. Previous soil samples did not get this close to the wellhead. To obtain these samples, this may require use of hand auger. Current samples along Western side were not able to get past 1-2' with hand auger, so backhoe may need to dig up top pad at surface. If Clair/Tetra Tech can't 'direct push' she can not hand auger.

Dusty said we're right at the edge of the current Phase 1. They need to get site cleaned up so there's more room on location – move tanks, remove all impacted soil and finish backfilling before starting Phase 2. There's also a small caliche pit that needs to be dug down and a polyline running from the old battery to be removed. Dusty is going on PTO for a week. He'll be expecting Dufrane to continue this while he is gone. Dusty and Clair will figure out sampling plan and get with Ryan.

Cory/OCD asked where the impacted soil was being taken. It is going to a private landowner's property in Texas. This is where the good red dirt is also coming from that is being used to backfill. They're currently running 5 trucks.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

OCD conditions for approval deadline of December 22, 2021 was not met.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Soil sample results from Western wall need to be analyzed by both Ryan and Cory and gameplan agreed upon.

Assign Follow Up Tasks For New Business:

Permian to respond to Cory's request for additional info with regard to the extension request to OCD conditions for approval by 1/21/2022.

Soil sample results from Western wall need to be reviewed by Ryan and Cory and communicated to Permian. Cory responded to Ryan that he was OK with Ryan's plan this morning. 10' radius around wellhead determined for safe excavation.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday February 2, 2022

Adjourn: 8:25 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

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Site outline

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Phase 1 Remediation Area

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Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- I. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure or terrar
 - 1,000 mg/kg TPH
 7,000 mg/kg EI*
 - STEXND
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

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- - Completed/Out of scope areas
- - Areas of 15' excavation
- - Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days. **
- ***Plan may change subject to sample data from spill and water besting ****



Progress Meeting #24 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 2/2/2022

Meeting Time: 8:01 am, Wednesday February 2, 2022

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, February 9, 2022

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Cory Smith	505/419-2687	cory.smith@state.nm.us	NM Oil Conservation Division
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Dusty sent an email to Cory on December 20, 2021 requesting a formal extension to the OCD current conditions for approval since the December 22, 2021 deadline for the OCD Conditions for Approval was not met. Cory asked PWS for additional information that is due 1/21/2022. Cory wants dates for removal of Phase 1 dirt, when Phase 2 will begin and when it will finish. Dusty has responded to this and Cory is reviewing.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Dusty was on PTO last week. He was on site Monday and this morning to inspect. He said they started to backfill to the second lift within the pit starting from the Southern edge heading North. The large stockpile of spoils along the West side has been removed. A smaller pile of 1,000-2,000 yds still needs to be removed near the South end. All tanks have been moved from the West side of lease to the North side. The facility has been picked up and looks pretty clean. There are a few large rocks that will be removed.

Clair/Tetratech was unable to obtain soil samples last week due to staff being out with Covid. She will email confirmation to Faith, Ryan, and Cory of the new sampling date; it is expected to be next Monday the 7th or Tuesday the 8th due to snow and ice that is starting today.

Weather Delays: There is snow and below freezing temperatures expected through Friday. No one will be on the roads if there is ice on them. If it starts thawing out Friday, they'll be back to work on location. The high is expected to be 38 degrees Friday.

Two Week Look Ahead:

Clair will send email notification of the new testing date to everyone when she has it confirmed. The field plan is to dig a 15' test trench to vertically delineate. They will also use the back hoe to grab horizontal delineation samples along the West wall. The results should be back in one week.

Dusty updated the kmz file of the location to show the new extension area moving West from the original Phase 1 area. They will continue to remove the spoils, haul in clean dirt, and backfill Phase 1 pit.

Cory will try to finish his review of Dusty's extension request. He noted he'll be confirming that the waste is being properly disposed of per the applicable Texas rule.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: None at the moment.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Soil sample results from Western wall need to be analyzed by both Ryan and Cory and gameplan agreed upon.

Assign Follow Up Tasks For New Business:

Cory/OCD to respond to extension request.

Soil sample results from Western wall need to be reviewed by Ryan and Cory and communicated to Permian. Cory responded to Ryan that he was OK with Ryan's plan this morning. 10' radius around wellhead determined for safe excavation.

Jenni will have to miss next week's meeting; Faith will try to record and share it with her to transcribe.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday February 9, 2022

Adjourn: 8:15 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

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Site outline

Phase 1 Remediation Area

Test Well #2

***Plan may change subject to sample data from soil and water testing. ***



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 7,000 mg/kg CI*
 - STEKNO
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- - Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #25 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 2/9/2022

Meeting Time: 8:04 am, Wednesday February 9, 2022

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, February 16, 2022

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Cory Smith	505/419-2687	cory.smith@state.nm.us	NM Oil Conservation Division
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Soil samples obtained on Tuesday. Tetra Tech was on location with Dusty. They dug a trench to north of wellhead 10' out and all the way down to 15'. The chloride content aren't going to be a huge issue from the field screening. The other cleaned up to around 4', but we'll have lab results by next week's meeting. Clair thinks we'll be OK past the top 4'. They did horizontal sampling to get an idea of where the 4' on the west side of the wall needs to go out. SW-8 may be another 5' out to get cleaned up. SW-7, they stepped out in 5' increments to 15' and it was still above 600, so she thinks that area may merge into Phase 2. 15' out puts them close to the safe perimeter around the wellhead. The top 4'

have to be below 600 chlorides. Below that it's 10,000 chlorides, so we're OK. The field screenings were around 1800-2000 chlorides for field screenings below top 4'. Lab results will confirm.

Clair said they're pretty much done sampling. They'll need to take SW-8 out to 5' and they'll need confirmation samples there once complete, but that's about it. Dusty and Clair will work on that excavation and Dusty will update the kmz file to show the accurate field status.

Dusty sent an email to Cory on December 20, 2021 requesting a formal extension to the OCD current conditions for approval since the December 22, 2021 deadline for the OCD Conditions for Approval was not met. Cory asked PWS for additional information that was due 1/21/2022. Cory wanted dates for removal of Phase 1 dirt, when Phase 2 will begin and when it will finish. Dusty responded to this and Cory is reviewing. Cory hasn't been able to review because he's been working on the OCD waste rule. He sent it over to the legal dept to review because of other agreed compliance orders involving the Kaiser State #9. He hasn't heard back.

Discussion on other OCD NOV's to make sure SLO is aware of everything.

Brine wells were brought up – Dunaway #1 #2 and Hobbs State #10. Faith said there were terminated mineral leases and water supply wells associated with the brine wells. Dusty confirmed Jenni was spear-heading the regulatory filings and would know more about all of this. Permian was approval to plug the Dunaway #1 and #2 and are working with wireline companies and plugging companies to plug these wells. Dusty said everything is running an additional step through our lawyers, who are communicating with OCD legal. Faith said that Mike Bratcher/OCD told her about a year ago the OCD would be focused on making Permian plug the brine wells first.

Cory/OCD said the ACO is for the Kaiser, Dorstate, AN Etz, Rice F 29, An Swd, Delaware River #2, Exxon State #3, and Rhomer. It is designed to require delineation, so while Permian is working on the Kaiser they should be going out to these other sites in order, starting with the Dorstate and doing delineation and putting together a work plan for down the line. Dusty said we're still back and forth with legal and haven't started any delineation yet. Discussion on status of ACO – is it in draft stage or out yet? Faith wants to know how the OCD compliance orders are laid out to know how the Dorstate fits into the timeline and to make sure SLO and OCD are coordinated in their efforts to resolve everything correctly and it's documented correctly. That site should not be accessible to anyone at this time. Ryan confirmed that prior Dorstate delineation plans have been prepared, but not approved. Dusty confirmed they have not accessed the site yet. Clair confirmed Tetra Tech has some delineation data on the Dorstate already.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Aside from weather delays, Dufrane continued to haul and backfill. Two front end loaders went down so they've been loading trucks with an excavator. It's slower since they're hauling to pull dirt from sides of stockpile and they weren't set up for this. This has led to there being less good dirt stockpiled to backfill. Hopefully they'll get the loaders back up this week.

Yesterday Tetra Tech was on site to perform testing. Excavator did not run during testing. Clair estimates a 5 business day turnaround on the results, so hopefully next Monday-Tuesday.

Weather Delays: It snowed, which then melted and froze. Icy conditions shut down site for about 2 work days – Wednesday afternoon through Friday noon.

Two Week Look Ahead:

Finish digging out and sampling Phase 1 extension. Continue hauling bad dirt out, clean dirt in, and backfilling. Dusty wants to clean up everything from Phase 1 before starting Phase 2 excavation.

Cory will try to finish his review of Dusty's extension request. He'll be confirming that the waste is being properly disposed of per the applicable Texas rule.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: None at the moment.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Dig SW-8 out 5' more, sample. Continue backfilling.

Assign Follow Up Tasks For New Business:

Cory/OCD to respond to extension request. Soil sample results from SW-8 dig out.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday February 16, 2022

Adjourn: 8:30 am

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations***

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

SI

Site outline

- - -

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ****



Progress Meeting #26 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 2/16/2022

Meeting Time: 8:04 am, Wednesday February 16, 2022

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, February 23, 2022

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Cory Smith	505/419-2687	cory.smith@state.nm.us	NM Oil Conservation Division
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Dusty sent an email to Cory on December 20, 2021 requesting a formal extension to the OCD current conditions for approval since the December 22, 2021 deadline for the OCD Conditions for Approval was not met. Cory asked PWS for additional information that is due 1/21/2022. Cory wants dates for removal of Phase 1 dirt, when Phase 2 will begin and when it will finish. Dusty has responded to this and Cory is reviewing.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Clair/Tetratech was on site last Tuesday, the 8th, to obtain soil samples. She received the lab results late last night and was tabulating them this morning. She will circulate the data to everyone upon completion. The trench that was installed 10' North of the wellhead shows that the area around the wellhead will need to be excavated to 4' below surface. Below 4' the chlorides ranged from roughly1,500-3,000 range. The highest TPH below the top 4' was 190 mg/kg at 5-6' below surface. Below 7' non-detectable. No BTEX detected.

Horizontal trenches in sidewalls used field screening method to detect how far out they would need to dig. The northern areas, SW-8, would need to go out about 4-5'. One area, SW-7, looked like 15-20' out was not clean, and will likely merge to Phase 2.

Discussion on the Phase 1/Phase 2 label – can we agree that these samples will finish out Phase 1? Cory and Ryan are OK with this. Cory/OCD said it doesn't matter what phase we call it; the remediation will continue until samples are clean. He still sees the bigger bottleneck being the soil movement in and out of the facility. He questioned if every load hauled out was bringing a clean load in, how the Phase 1 pit is not backfilled completely yet, how there is still any spoil dirt on location, and the efficiency and logic of hauling the spoil dirt all the way to Texas instead of a nearby landfill.

Dusty responded that they are digging out dirt faster than it can be hauled off and clean dirt is being brought back in, but it's not an equal 1-1 haul. They have a small spoil pile left at the South end of the site and about 10,000 yds at the containment across the road. There will likely need to be a liner put down over the backfilled Phase 1 pit to place Phase 2 excavated dirt because the containment across the road is not large enough for the material that needs to be excavated.

In response to where the spoil dirt is being hauled and the efficiency, that is Josh's call. Dusty does not make the financial/operational decisions; he implements them in the field. Cory said it's the same issues every week. Jenni and Dusty acknowledge this and understand, but Josh is the owner of Permian and he makes the decisions. They are just doing as they are told and there's only so much they can do. Cory asked for Josh's email address. Faith asked to be cc'd if Cory/OCD reaches out to Josh.

Weather Delays: No mention this meeting.

Two Week Look Ahead:

All agree that Phase 1 can be complete upon this last set of sampling/excavation around the wellhead or it will be never-ending. The reality is this is going to be a huge hole at the facility due to years of leaking. Faith/SLO asked how they can help PWS keep moving forward in the field. Ryan asked if it would be helpful to take a pause on excavating to focus on hauling off the spoil dirt and backfilling the Phase 1 pit. Dusty agreed to this.

Cory will try to finish his review of Dusty's extension request. He may reach out to Josh separately. By the time these minutes were typed up Cory had emailed Josh cc'ing all.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: None today.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Finish excavation of sidewall and wellhead radius that exceeded required thresholds. Backfill Phase 1 pit completely. Remove remaining spoil dirt to prepare for Phase 2 excavation dirt.

Assign Follow Up Tasks For New Business:

Cory/OCD to respond to extension request.

Faith will send Jenni meeting #25 transcription since she was out last week.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday February 23, 2022

Adjourn: 8:28 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

***SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface

water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations***

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site outline

Phase 1 Remediation Area

Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - All areas not noted in key, excavate to 6'.
 - Final samples to the following closure criteria:
 - 1,000 mg/kg TPH.
 - 7,000 mg/kg CI* - STEKNO
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

- - Completed/Out of scope areas
- - Areas of 15' excavation
- - Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days. **
- and len may change subject to sample data from spill and water testing that



Progress Meeting #27 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 2/23/2022

Meeting Time: 8:04 am, Wednesday February 23, 2022

Place: Go To Meeting call in invite, 1 (872) 240-3412, access code 945-975-053

Next Meeting Date and Time: 8:00 am, March 2, 2022

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

,	, <u>1</u>	
505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
505/419-2687	cory.smith@state.nm.us	NM Oil Conservation Division
512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
	505/419-2687 512/820-8772 432/687-8123	505/419-2687 cory.smith@state.nm.us 512/820-8772 jenni@permianws.com 432/687-8123 Clair.gonzales@tetratech.com

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Dusty sent an email to Cory on December 20, 2021 requesting a formal extension to the OCD current conditions for approval since the December 22, 2021 deadline for the OCD Conditions for Approval was not met. Cory asked PWS for additional information that is due 1/21/2022. Cory wants dates for removal of Phase 1 dirt, when Phase 2 will begin and when it will finish. Dusty has responded to this and Cory is reviewing.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Dufrane is continuing to haul spoil dirt off and bring clean dirt in. There is still a little dirt left within the facility and the containment across the road. Dusty is working on getting two more off road trucks that can help move the dirt.

Weather Delays: Rain burst on Thursday shut things down for a bit, but don't expect precipitation over the next week, just some wind and colder temperatures.

Two Week Look Ahead:

Dufrane hopes to obtain more off road vehicles to move the remaining dirt off location so they can start digging out on the West side/Phase 2. Faith asked if there was anything SLO could do to help or if increasing the containment area across the road would help. Dusty doesn't think there's much room to increase the area due to existing ROW's and pipelines. Plus it makes more sense to just haul it all off so spoils don't hinder traffic flow. So he'd like to get it hauled out before starting excavation on the West side.

Cory will try to finish his review of Dusty's extension request. NMOCD just released their Waste Rule, so he has been slammed. He sent a follow up email to Josh asking for information on how the impacted soil is being handled and if he has considered transporting the impacted soil to a closer location in NM to save time/money associated with the additional drive time from driving to Texas. Josh has not responded yet.

If Ryan has anything to add it will be circulated via email to all.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: None today.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Finish excavation of sidewall and wellhead radius that exceeded required thresholds. Backfill Phase 1 pit completely. Remove remaining spoil dirt to prepare for Phase 2 excavation dirt.

Assign Follow Up Tasks For New Business:

Cory/OCD to respond to extension request.

Faith sent Jenni meeting #25 recording that Jenni needs to transcribe and circulate for review.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday March 2, 2022

Adjourn: 8:15 am

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

- 511

Site outline

- - -

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #28 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 3/9/2022

Meeting Time: 8:03 am, Wednesday March 9, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, March 16, 2022

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Cory Smith	505/419-2687	cory.smith@state.nm.us	NM Oil Conservation Division
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Dusty sent an email to Cory on December 20, 2021 requesting a formal extension to the OCD current conditions for approval since the December 22, 2021 deadline for the OCD Conditions for Approval was not met. Cory asked PWS for additional information that is due 1/21/2022. Cory wants dates for removal of Phase 1 dirt, when Phase 2 will begin and when it will finish. Dusty has responded

to this and Cory said he's been pulled in lots of directions, but he needs to approve. Progress is progress.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Dufrane is continuing to mine clean dirt and bring in to backfill. Phase 1 pit is 75% backfilled. They're leaving the west side wall open to avoid sloughing contaminated dirt back into the good dirt. They're continuing to haul the bad dirt off site and talking to closer NM facilities to shorten the drive time. Monument wants soil samples of the stockpile, so Tetra Tech and Dusty will obtain them Thursday or Friday of this week. Josh and Cory have talked and Josh has Dusty looking into Sundance and Lea Land facilities as well for possible disposal options. Dusty said they're continuing both jobs – backfilling with clean dirt and hauling off bad dirt.

Weather Delays: None, strong winds are picking up but shouldn't cause delay.

Two Week Look Ahead:

More of the same. Haul in clean dirt and work on getting the contaminated stockpile across the road down before starting more excavation.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: None today.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Finish excavation of sidewall and wellhead radius that exceeded required thresholds. Backfill Phase 1 pit completely. Remove remaining spoil dirt to prepare for Phase 2 excavation dirt.

Assign Follow Up Tasks For New Business:

Cory/OCD to respond to extension request.

Jenni needs to circulate meeting #25 for review to all and send Faith the OCD orders PWS has.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday March 16, 2022

Adjourn: 8:12 am

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^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

- 511

Site outline



Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #29 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 3/16/2022

Meeting Time: 8:04 am, Wednesday March 16, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, March 23, 2022

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

(- ······)			
Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Cory Smith	505/419-2687	cory.smith@state.nm.us	NM Oil Conservation Division
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Cory/OCD approved extension request by Dusty/Dufrane to meet OCD conditions for approval on 3/14/2022. The extension states to complete Phase 1 no later than 3/25/2022.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Dufrane is continuing to mine clean dirt and bring in to backfill. Phase 1 pit is backfilled with the exception of the west side wall to avoid sloughing contaminated dirt back into the clean pit. They're continuing to haul the bad dirt off site and have three NM facilities they're looking at to shorten the drive time. Tetra Tech was on site to obtain samples of the stockpile last Friday, 3/11 to supply to the Monument disposal facility. Hopefully results will be back from the lab this Thursday or Friday. Dusty also has the Sundance and Lea Land facilities as possible disposal options; Monument is just the closest facility to the Kaiser location.

Dusty thinks they will be able to meet the OCD's 3/25 deadline to complete Phase 1. Faith requested the updated KMZ file showing the 'new Phase 1 extension trench'.

Weather Delays: None.

Two Week Look Ahead:

More of the same. Haul in clean dirt and work on getting the contaminated stockpile across the road down before starting excavation of Phase 2. Wait for Tetra Tech's soil sample results and determine if/where the contaminated stockpile soil can go within NM.

Jenni asked what to do if results exceed the Monument disposal facility's thresholds. Cory said they can blend dirty dirt with lesser contaminated dirt to lower results, but it can not be blended with clean dirt ever. Dusty agrees this would just create more work and waste. He may blend up the stockpile.

Dusty asked for bi-weekly meetings as he is starting another large project and Faith said she'd like to keep them weekly at this time.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: None today.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Finish excavation of sidewall and wellhead radius that exceeded required thresholds. Backfill Phase 1 pit completely. Remove remaining spoil dirt to prepare for Phase 2 excavation dirt.

Assign Follow Up Tasks For New Business:

Dusty to circulate updated KMZ file showing the current field status.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday March 23, 2022

Adjourn: 8:11 am

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site

Site outline

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg C1*
 - STEKND
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #30 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 3/23/2022

Meeting Time: 8:04 am, Wednesday March 23, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, March 30, 2022

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Clair Gonzales
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Cory/OCD approved extension request by Dusty/Dufrane to meet OCD conditions for approval on 3/14/2022. The extension states to complete Phase 1 no later than 3/25/2022.

Safety:

Site Observations:

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Dufrane continued to backfill the Phase 1 pit. They're pushing for it to be done by the OCD's 3/25 deadline. Dusty is hoping they'll be ready to cap it with caliche Monday. They continued to haul off the stockpile dirt.

Sort of off topic, but Dusty had a Zoom meeting with a company that treats soil for TPH. They're getting some samples to test out and they wanted to see if the SLO and OCD had any experience or opinion on this. Clair had told Dusty that they needed to see how it encapsulates the chlorides and they should talk to Cory about it. Faith said she'd get someone with SLO named Steve Ikeda to get in touch with Dusty to discuss in more detail. Dusty is not familiar using these products, but he listened to the sales pitch and asked questions; Clair is a fan of bioremediation with TPH, but she isn't as experienced with the chloride side. She mentioned soil washing and that it could take longer, so the time/cost would need to be analyzed further. Dusty asked the company how long it would take to remediate 10,000 yards and they said 30-45 days to let the product sit and bugs activate. Dufrane wants to get with OCD, try the samples and see if it could cut down on the hauling time. Faith is not opposed, but she wants more research done first.

Clair asked if they sampled the stockpile at 50-100 cubic yard increments and thresholds were under for chlorides and TPH, would they be able to use it to backfill, and then bring in clean dirt for the top 4'? Faith thinks it would be OK.

There have been delays at the labs due to instrumentation issues. Clair received a preliminary TPH report last night on the stockpile samples, but the lab is still working on the chloride report. She hopes to have the results back in a couple of days. The TPH data was lower but wasn't at the 50 cu yd interval. 600ish TPH was the highest.

Weather Delays: None.

Two Week Look Ahead:

Complete Phase 1 backfill and keep hauling the contaminated stockpile across the road down so they can start excavation of Phase 2. Receive Tetra Tech's soil sample results and determine if/where

the contaminated stockpile soil can go within NM – hopefully the Monument facility. Test the new product and see if it may help with this remediation.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: None today.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Backfill Phase 1 pit completely and cap it w/ caliche. Remove remaining spoil dirt to prepare for Phase 2 excavation dirt.

Assign Follow Up Tasks For New Business: None

Verify Date and Time of Next Meeting: 8:00 am, Wednesday March 30, 2022

Adjourn: 8:15 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Sit

Site outline

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Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #31 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 4/6/2022

Meeting Time: 8:05 am, Wednesday April 6, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, April 13, 2022

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Cory Smith	505/419-2687	cory.smith@state.nm.us	NM OCD
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Safety:

Site Observations:

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Phase 1 backfill is complete except the 20' west side section where they're continuing to mine material out. 8" of backfill is needed and will be capped with caliche to finalize. 50% of stockpile across the road to finish removing. Lab results came back last Friday on the stockpile, and it looks like some can be sent to the Monument facility. They'll have to take the areas with thresholds too high somewhere else. They're hauling in surplus backfill for the Phase 2 portion. They have 9 trucks running now and are making good effort.

Weather Delays: None.

Two Week Look Ahead:

Continue with the west side trench. Haul off stockpile dirt to Monument to create more room for Phase 2 excavation. Hopefully the first part of next week Phase 2 (Phase 1.5) excavation can begin & continue hauling off bad dirt. Faith clarified the plan is to continue the Phase 1.5 trench and sample for results. Dusty confirmed that is the plan. He referenced the recent kmz file showing the southwestern section of Phase 1 as the trench beginning location, and that it moves ¾ way up along the Phase 1 area, maintaining a 10' buffer around the wellhead. They delineated back to the well. It's a big, blended project at this point, as we thought it would end up.

Cory commented that things are still moving into place in the field. The OCD Phase 2 deadline is September, so reminded Dusty to keep this in mind. To which Dusty replied that this project is always on his mind. Agreeance among all that we're moving into Phase 2 timeline. Cory said the OCD focuses on closing out entire sites all at once. And that samples meet requirements for closure. He asked Clair if all the Phase 1 samples met thresholds for closure. Clair was having technical difficulties today but responded in the chat that everything was good except the west side wall that is still being worked on.

Faith said let's meet next week to discuss the trench and the bigger picture. If there need to be changes to the plan to accomplish this quicker or easier on site, OCD needs to know. Closure numbers must be met, but the plan on how to do this can deviate.

Cory asked about the status of the equipment that was on site last he was out there. Dusty said the tanks are on site but everything else has been removed except the guardrail around the wellhead, a power pole that ran to the old doghouse with automation equipment housed in it, and a polyline that he thinks used to be Endeavors. He needs to call them to find out. The 2-3 tanks that used to be on top of the Phase 2 area are removed. There's just some rubble that will be picked up and the polyline now. He'll send updated pictures to everyone.

Jenni reminded us to run bioremediation conversation from previous meeting by Cory for OCD's opinion on it. Dusty elaborated that he'd had a Zoom call with a bio bug company and would get samples to treat a 20 yd load for tph but was uncertain of the chloride capsulation and how the OCD viewed it. Cory asked for the name of the company, but Dusty wasn't sure off the top of his head. Cory said generally speaking, it takes longer (in situ remediation) so the September deadline may not be met. They'd want the company to prove the encapsulation timeframe. Dusty and Clair were also concerned about the uncertainty of the encapsulation timeframe for chlorides but thought tph was treated well.

Cory mentioned they've allowed soil shredding using hydrogen peroxide to clear the soil and it's worked. He also said the southeast has had success with soil washing, but he'd need to check in with his colleagues that work the area for more details. It's just running water to strip the chlorides out, not encapsulating it. RX Soils company possibly? Dusty said the company he spoke with explained they'd mix it all in a truck and let it sit there depending on how high the contaminates were. He said 3-5 days for a 20 yd batch, which does not seem efficient. Cory said he wouldn't tell them no on using the product, but this site does not need any additional kinks with it. Maybe try it on other sites.

Faith spoke with her District resource commissioner, and he had only done two in situ remediations. One was a produced water spill and the other a crude spill, but they got right on it. This site has decades of old spills Permian has inherited, so the scenario would not be the same. However, they were successful in the other projects; it just took some time.

Plan is to continue weekly meetings for the next month.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: None today.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Backfill Phase 1 pit completely and cap it w/ caliche. Remove remaining spoil dirt to prepare for Phase 2 excavation dirt.

Assign Follow Up Tasks For New Business:

Dusty send updated site pics.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday April 13, 2022

Adjourn: 8:29 am

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations***

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site outline

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - All areas not noted in key, excavate to 6'.
 - Final samples to the following closure criteria:
 - 1,000 mg/kg TPH.
 - 7,000 mg/kg CI* - STEKNO
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

- - Completed/Out of scope areas
- - Areas of 15' excavation
- - Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days. **
- and len may change subject to sample data from spill and water testing that



Progress Meeting #32 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 4/13/2022

Meeting Time: 8:04 am, Wednesday April 13, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, April 20, 2022

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Safety:

Site Observations:

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Dufrane is continuing to haul off material. Dusty has been trying to get with the guy at the Monument facility, but he has been out of town. He'll continue to try to get in touch. They plan to dig the trench area, phase 1.5 and get Tetra Tech out to sample the top 4'. Lots of dirt to move around. Faith asked how the truck numbers were looking and Dusty said it's going well and some of them are actually calling him for work now. Everyone laughed at that.

Weather Delays: Windy. There have been fires popping up around NM and west TX, but so far nothing has gotten close enough to the site to shut things down. Dusty said since the guys are enclosed in a cab while working the equipment, the wind is not too bothersome. If there's a fire and smoke too close, they will evacuate for safety concerns. If Dusty is not on location he has a supervisor out there that can contact all the trucks. Even though they're independent truckers they maintain contact with them regularly while on the job.

Two Week Look Ahead:

Strip the phase 1.5 trench back for soil sampling. Then continue stripping back into phase 2. Continue stockpiling material on site – hauling in a load and taking out a load. There's room across the road in the containment area also to stockpile if needed.

They hope to take soil samples next week and the following week. Clair said the issues the lab was having have been fixed. She said she'd check how the lab was doing before sending in the next set up samples in case she needs to send to another lab. She said there is Cardinal in Hobbs where she can send samples to also.

Ryan asked about the stockpile sample results. Clair said the TPH was 100-600. The chlorides had three areas less than 2,000, all were below 10,000. Dusty said a couple were in the 3,000's. Ryan asked about sending it to the landfill and Dusty said Monument should take the lower samples, but not the higher ones; he needs to speak with the Monument guy to confirm.

Faith asked if anything had been started on the Dorstate. Dusty and Jenni responded that they're working on the C-141's, Tetra Tech has supplied site characterizations, and a bid to do the remediation plans for the ACO. Jenni has pulled all the incident files and needs to fill in data to the C-141's. She's run things by their attorney and they're on the right track for submitting the required items to the OCD

to comply with the ACO deadline of May 27. Jenni will give Cory a head's up email when all items are submitted. The ACO does not distinguish any order for working the sites. The Kaiser is separate since its remediation plan started before the ACO was issued, but the other sites are lumped together. The specifics of the past incidents and remediation plans will dictate the OCD's timeframes and responses to the C-141's and remediation plans. Faith said that SLO didn't intend to have Permian working the Kaiser and the Dorstate remediation projects at the same time and if she can help get us access to the facility for soil borings or anything else to let her know.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: None today.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Remove remaining spoil dirt to prepare for Phase 2 excavation dirt.

Assign Follow Up Tasks For New Business:

Verify Date and Time of Next Meeting: 8:00 am, Wednesday April 20, 2022

Adjourn: 8:23 am

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

____ s

Site outline

_ ; _

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excevate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #33 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 4/20/2022

Meeting Time: 8:07 am, Wednesday April 20, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, May 4, 2022

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Cory Smith	505/419-2687	cory.smith@state.nm.us	NM Oil Conservation Division

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Safety:

Site Observations:

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Week Performance:

Dufrane is continuing to haul dirt off. Last week they experienced numerous issues on location. The excavator broke and is awaiting repair. Dusty will have a bulldozer moved in from another job location to take over the work of the excavator while it is being repaired.

Dusty spoke with the South Monument facility guy and he's not comfortable with the chloride content levels. Dusty doesn't want to spend the time mixing soils to try to lower the levels so he wants to haul dirt to the Lea Land facility instead.

The truck drivers are getting burnt out from the long hours and Dusty said they are not working as efficiently. They are still hauling dirt off as generated instead of stockpiling across the road.

Weather Delays: No delays. There are still red flag warnings and fire risks for the area.

Two Week Look Ahead:

Dusty hopes to be able to sample the top 4' of the trench at the end of next week, or Monday of the following week. The mechanical failures delayed the trench from being completely dug out, but the dozer should be there tomorrow to take over. And the trucking guys are just tired and need a reset so they can come back fresh and be more efficient.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: None today.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks (Phase 1.5)
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Remove remaining spoil dirt to prepare for Phase 2 excavation dirt.
 - b. Clair/Tetra Tech said she thinks they can get someone out to sample the Phase 1.5 trench area at the end of next week. Faith asked for email notification.
 - c. Cory/OCD has nothing to add. Phase 1 is complete and now the September deadline to complete Phase 2 is next for the OCD. There will be no more extensions and summer will go by fast, so just meet the deadline.

Assign Follow Up Tasks For New Business:

Not directly tied to this remediation, but Dusty told Clair to proceed with their remediation plan quotes for the OCD ACO to clean up historical open incidents.

Jenni needs #31 meeting minutes confirmed so she can circulate the final version.

Faith said these meetings will go to every other week starting with the next meeting. She will circulate a new meeting invite.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday May 4, 2022

Adjourn: 8:17 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site

Site outline

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #34 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 5/4/2022

Meeting Time: 8:02 am, Wednesday May 4, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, May 18, 2022

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Safety:

Site Observations:

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Two-Week Performance:

Dufrane has hauled off much of the spoil material from the large stockpile across the road; there are about 1,000 yds remaining, so they've made a lot of progress on that. Phase 1.5 trench has been completely dug out. Dusty said they went a little more than 4' deep in some areas, maybe to 5' so he could see what it was looking like. That dirt has been moved out and stockpiled across the road.

The road construction is back. There is construction at the lease road entrance off of 176. It has resulted in a 2.5 hour roundtrip of 60 miles to haul the dirt off and return. Dusty has tapered that off to 2-3 trips per day and is putting material across the road in the meantime. The construction occurs for about 12 miles West, which is the direction they're traveling to the disposal facility. This has not caused delay with excavation on location though.

The loader that had a mechanical issue resulting in a small fire was out of service for 3 days. There were no injuries and they've been able to fix it. The mechanic is double-checking it today to determine that it may be put back in operation.

Dusty said they pulled two poly lines that were in the Phase 2 excavation area further West outside of the fence line so they are not in the way. They'd like to start Phase 2 excavation next week. He plans to leave a small boundary in place against the Western line of the property to leave room for sidewall testing. He hopes to begin excavation in the NW corner of the Phase 2 outline. He tracked the lines and said the markings on one say Red Dog/Dawg or Rebel. The other is a main trunkline that connects to a 4-1/2 that he thinks is XTO's. It's not time-sensitive at this moment to track down and contact these owners, but they will need to track them down at some point. Faith and Ryan will research on their end to see if they can help identify the lines' owners. The lines could have gone to the Kaiser at some point too. We'll all need to do some digging into it and communicate our findings.

Clair/Tetra Tech will be on location this Friday, May 6th to sample the Phase 1.5 trench area.

Weather Delays: No delays. There are still red flag warnings and fire risks for the area.

Two Week Look Ahead:

Dusty would like to begin Phase 2 excavation at the North end. On the most recent KMZ file, this is the small pit in green at the Northwest corner, then the deeper excavation area to the East that's

adjacent. He doesn't want to excavate so much dirt that they can't haul it off with the road construction time frames and he doesn't want it sitting on top of Phase 1 which has already been completed. He'll work on more truck power, or he may decide to excavate Phase 2 in increments by testing the Northern end and seeing what results look like. He could then backfill some if results are OK and then continue to excavate. He does not want to mess with a liner on Phase 1 or disturb anything on Phase 1 until they're closer to construction.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: None today.

Critical Path Considerations: None today that anyone can assist with. Hopefully the road construction does not last for very long.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks (Phase 1.5)
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Continually remove spoil dirt to assist with Phase 2 excavation dirt accumulation.
 - b. Clair/Tetra Tech will sample the Phase 1.5 trench area May 6th. Email notification has been sent. Cory was not on today's call but responded to the email notification to collect BTEX samples since this is a new area. Lab results should be back by late next week and Clair will circulate to all. Ryan may be in area to swing by to witness sampling.

Assign Follow Up Tasks For New Business:

Jenni needs #31 meeting minutes confirmed so she can circulate the final version. She circulated #33 meeting minutes late and needs to double-check all minutes are up to date.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday May 18, 2022

Adjourn: 8:19 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - o SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.
- **Plan may be subject to change depending on data from soil and water samples.**
- ***SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

SI

Site outline

- - -

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excevate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ****



Progress Meeting #35 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 5/18/2022

Meeting Time: 8:05 am, Wednesday May 18, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, June 1, 2022

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Cory Smith	505/419-2687	Cory.smith@state.nm.us	NM Oil Conservation Division

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Safety:

Site Observations:

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Two-Week Performance:

Clair/Tetra Tech sampled the Phase 1.5 trench area and results have been received, but not tabulated for circulation yet. She said that the sidewall samples are exceeding the chloride and TPH thresholds. She thinks the trench will blend West into Phase 2. She'll try to have the results circulated to everyone by the end of the day or early tomorrow morning.

Faith mentioned that if the new tank battery location created any soil disturbance archaeological clearance would be necessary. Dusty said the tank batteries should be placed at the Northern portion of site, along fence line, edge of Phase 1. He doesn't foresee any new disturbance and he thinks they'll use less tanks than the previous layout, so less of a footprint.

Dusty/Dufrane excavated a larger area around the Phase 1.5 trench than first planned because they saw the sidewalls did not look good as they were excavating, so they kept extending out West. They removed the spoiled dirt and hauled it out. The stockpile area across the road was hauled all the way down to a thin layer to keep a buffer layer on top of the liner to protect the liner. They're still hauling the spoil dirt to the Lea Land facility.

The road construction is still present. It has moved West from the lease entrance location, but the Lea Land facility is still located West. It's still about a 2.5 hour roundtrip of 60 miles to haul the dirt off and return. Dusty is dealing with it with some hauling to Lea Land and some stockpiling across the road to keep things flowing.

They started excavating Phase 2 in the Northwestern corner smaller area to the east of the existing pit. It will likely blend into part of the 1.5 trench, becoming one big hole. Dusty thinks Phase 2 will just go as deep as needed versus varying depth levels to make it easier for excavation. They're a couple of feet in now and hauling off bad dirt, using the stockpile area as needed. Faith asked if the two-week lookahead was the same and Dusty confirmed.

Weather Delays: No delays. There are still red flag warnings and fire risks for the area.

Two Week Look Ahead:

Dusty hopes to keep excavating until the testing depth is reached for Clair/Tetra Tech. It is a lot of dirt and he'd like to work that section first to completion, capping it off when done. Then they'll

move to the center area of Phase 2, which will end up blending some with the Phase 1.5 trench center area. Then eventually further South where the old tank battery was and the Southern edge of the 1.5 trench. He's hoping the Northwestern edge is the cleanest.

Faith asked the sampling plan for the Northwest corner. Dusty said to dig to 15'and remove all the dirt. He'll draw a line at some point and if necessary, they'll extend further South. Cory mentioned that the OCD doesn't need them to dig to 15', especially if it's removing clean dirt. The OCD still agrees with 400 sq ft sampling.

Dusty asked if they can stop and test shallower than 15' then if the soil looks clean. Faith, Cory and Ryan think that is OK. They don't think the Northwestern portion needed to go to 15', possibly 5-6'. The previous SLO engineer is not there anymore and if it looks like you can stop and test at 5' then go for it. Dusty said it would be more cost effective to try this than to dig it all out to 15' and get it hauled off with road construction.

Cory suggested everyone review the last delineation report and boreholes. Everyone will review for the deepest boreholes and their location and communicate via email for what depths they think sampling is safe to take place at. 5' may be OK for Northwestern portion and then deeper sampling for the Southwestern portion. We'll try to communicate and decide by next meeting.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: None today.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks (Phase 1.5)
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Continually remove spoil dirt to assist with Phase 2 excavation dirt accumulation.
 - b. Clair/Tetra Tech will circulate soil sample results from the Phase 1.5 trench area. Phase 1.5 will blend into Phase 2.

Assign Follow Up Tasks For New Business:

Everyone review the previous delineation for borehole depths to determine the appropriate excavation depths necessary for Phase 2 areas.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday June 1, 2022

Adjourn: 8:24 am

- *Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct
- ***SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations***

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

____ s

Site outline

Phase 1 Remediation Area

Test Well #2

lest Well #2





Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 7,000 mg/kg CI*
 - STEKNO
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ****



Progress Meeting #36 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 6/1/2022

Meeting Time: 8:02 am, Wednesday June 1, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, June 15, 2022

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
575/392-8736	rmann@slo.state.nm.us	NM State Land Office
512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
505/419-2687	Cory.smith@state.nm.us	NM Oil Conservation Division
	432/687-8123 575/392-8736 512/820-8772 617/584-2889	432/687-8123 Clair.gonzales@tetratech.com 575/392-8736 rmann@slo.state.nm.us 512/820-8772 jenni@permianws.com 617/584-2889 dmcinturff@dufrane.com

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Safety:

Site Observations:

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Two-Week Performance:

Clair/Tetra Tech circulated the Phase 1.5 trench soil sample results and proposed sampling plan via email to everyone on 5/25/22. The area was excavated to 5' bgs and sidewall samples exceeded the thresholds for chlorides and TPH. Bottom hole samples exceeded for TPH. So it is proposed to go down to 10'.

Dusty continued to remove dirt from the trench. They had stripped it back to get to Phase 2 NW pit. *Clarified with Dusty – they did start to dig into the Northern side of the NW pit a couple of feet, as noted in last meeting minutes, but stopped excavating to remove the spoil dirt that was stockpiled at the Southern portion of the NW pit from the Phase 1.5 trench deepening.

They lost a day and a half due to a bad storm with quarter size hail. They got back to work last Friday and then took Monday off for Memorial Day, and they're back now. They're still removing dirt from the 1.5 trench and moving it out for disposal.

The road construction has moved West from the lease entrance location, but the Lea Land facility is still located West. The situation is better than it has been though.

Weather Delays: No delays. There are still red flag warnings and fire risks for the area.

Two Week Look Ahead:

Dusty had to remove some old garbage from the NW pit area in Phase 2 – old RR ties, timber, ranching debris. It's been an open pit area for a long time that collected debris. He's hoping to have material ready for Clair/Tetra Tech to sample by the end of next week. This would be material from the NW pit and the smaller area to the east of the existing pit. Based on the delineation reports, they thought 4-5' was sufficient for these areas. He'll need to maneuver the excavated dirt around deepening Phase 1.5 and opening up Phase 2 more so they're not bottlenecking themselves or working the dirt twice. He's hopeful that the samples will be good and they'll be able to close it up with good dirt.

The Phase 1.5 trench will need to go to 10'. Faith said she was looking at photos of an old produced water spill and it was in the area where the high readings were taken. The northern portion was like a lake. Dusty will get down to 10' and Clair will sample to see if 10' is enough. Otherwise, Dusty will reassess safety considerations with going deeper than 10'.

Ryan and Cory are OK with Clair's sampling proposal that was circulated via email. Ryan said it a good start and soil sample results will dictate if and how further testing may be needed. Cory had no issues. He mentioned the delineation report was older, so we may need to go deeper due to vertical migration, even though the SW part of the state doesn't get a lot of rainfall. He said it's OK to sample early and often versus excavating and hauling more dirt from a cost and time perspective.

Faith reminded Clair to give notification for the next round of sampling.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: None today.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks (Phase 1.5)
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Continually remove spoil dirt to assist with Phase 2 excavation dirt accumulation.
 - b. Clair/Tetra Tech will provide notification for Phase 1.5 10' sampling & Phase 2 NW pit and the smaller area to the east of existing pit

Assign Follow Up Tasks For New Business:

Verify Date and Time of Next Meeting: 8:00 am, Wednesday June 1, 2022

Adjourn: 8:24 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Si

Site outline

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #37 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 6/29/2022

Meeting Time: 8:02 am, Wednesday June 29, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, June 13, 2022

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Cory Smith	505/419-2687	Cory.smith@state.nm.us	NM Oil Conservation Division

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Two-Week Performance:

The testing plan is for 400 square feet composite samples based off of Clair's delineation report: 4-5' deep on Phase 2 NW area next to the small pit. 1-2' on the small pit. Crossing over into the Phase 1.5 area, they took 2 more feet off the bottom to 10' and 1-2' out around the sidewall. The East wall of Phase 2 is actually the Phase 1.5 trench. It's merging into one big hole. *Clair's delineation report of Phase 2 area calls for the NW area next to the pit to be sampled at 4-5', the center section 5-6' deep and the southern section 4-5' deep.

Dusty said they had personnel issues the week of our last meeting. They lost 3 operators and had to move people around to do all the work. So they lost a week of work on our site, but they were able to get some guys hired and move original personnel is back on location working. They excavated last week and got things ready for Clair to come out and sample the Phase 1.5 and 2 excavated areas.

Dusty was on location and said it looked like there had been a lot of rain and there were deep ruts from the equipment. He was going to drive back through location to see how bad it was in the area where soil sampling is scheduled.

Weather Delays: It has rained for a week and there are tadpole ponds on location.

Two Week Look Ahead:

Dusty is hoping to get Clair/Tetra Tech in to sample the Phase 2 NW section, get good results and be able to backfill the area. Then he'll concentrate on the Phase 1.5 section.

Faith asked how large the spoil piles were. Dusty said it had pretty much been hauled out and now they're stocking new spoils over across the road. He has the trucks dropping off and loading up at the road so they aren't driving around within the site. Faith asked how much additional traffic used the road and Dusty said it's mostly lone pumpers coming out to check gauges and valves on the pipelines out there. They haven't had too much traffic on their road. The main lease road off of the highway has more traffic; he thinks there's more drilling and fracking going on.

Highway construction is just down to widening out the lease entrances/turnoffs now. Delays are minimal compared to what they were, maybe 5 minutes of waiting. Dusty asked one of the construction workers how much longer they would be out there and he said a couple more weeks.

Faith asked how many trucks were running and Dusty said 7-10, depending on the random issues that pop up, like blowouts, breakdowns. They joked that someone should follow the trucks throughout their routes all day long to keep them honest.

Clair confirmed to Cory that she understood his email response about upcoming sampling.

Dusty arrived at the area to be sampled and said they may need to push back to early next week (July 4th Monday) to let the water dry up. There were tadpole ponds. He asked if they had gotten much rain around Santa Fe to help with the fires. Faith said they had – they have total control of the Jemez fire by the lab and are still working the Hermits Peak/Calf Canyon one, which is not out but is under control. They've dropped crews from 2000 to 800-900. It's rained for a week every day.

Dusty said the pit is full of water. Clair confirmed they can't sample if it's too wet. She'll check her schedule and see when they can come out next week. She'll circulate notification email. Dusty will take pictures to circulate.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: None today.

Critical Path Considerations: None today.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks (Phase 1.5)
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Continually remove spoil dirt to assist with Phase 2 excavation dirt accumulation.
 - b. Clair/Tetra Tech will provide notification for Phase 1.5 10' sampling & Phase 2 NW pit and the smaller area to the east of existing pit

Assign Follow Up Tasks For New Business:

Verify Date and Time of Next Meeting: 8:00 am, Wednesday, July 13, 2022

Adjourn: 8:21 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

***SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface

water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations***

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site outline

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - All areas not noted in key, excavate to 6'.
 - Final samples to the following closure criteria:
 - 1,000 mg/kg TPH.
 - 7,000 mg/kg CI*
 - STEKNO
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

- - Completed/Out of scope areas
- - Areas of 15' excavation
- - Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days. **
- and len may change subject to sample data from spill and water testing that



Progress Meeting #38 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 7/13/2022

Meeting Time: 8:04 am, Wednesday July 13, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, June 27, 2022

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Cory Smith	505/419-2687	Cory.smith@state.nm.us	NM Oil Conservation Division
Daniel Gallegos		dgallegos@slo.state.nm.us	NM SLO Water Bureau

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business: Sampling should have taken place yesterday.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Two-Week Performance:

Clair/Tetra Tech started by saying they were on location last week and yesterday sampling a large area. The samples sent to the lab look like they'll be OK, but it looks like they'll need to extend Phase 2 out further West and South then they'd thought. Bottom hole samples look good though. They're currently at 6-8' deep now. Faith clarified they were extending laterally out West and Clair confirmed West of the wellhead out towards the fence line.

Dusty hopped in to elaborate on previous two weeks. They had to cancel the first round of testing due to rain, then the holiday delayed fieldwork, but they got back on everything after the holiday. The entire NW area has been excavated to 4-5'. The small pit to 1-2'. Phase 1.5 has blended into Phase 2 West. They've excavated out to the center of Phase 2, about 45' to the West. They didn't go all the way to the fence line yet to manage hauling the material off the top. They've started chasing a line out to the West from the Phase 1.5 Western wall out about 25'. The Western part of Phase 2 looks OK so far. Phase 1.5 floor also looks OK. Currently just chasing that West Wall out as Clair stated.

They need to go back to the North area and try to excavate chunks to see how far they're going to have to go. The Northwestern side may all blend together. This corresponds with old aerials Faith sent previously that showed old spills. They will probably have to go out deeper. The floor is looking OK, but there may be a pocket that needs to be dug out. They want to review the recent lab results for confirmation, but the Northeast corner of Phase 1.5 has a weird pocket about 20' x 20' or 30' x 30' that truncates down with the benching. It's about 35' from Phase 1 and it's really odd; Dusty hasn't seen it before. They've hit rock though, so they can't go any deeper. Once we see the results, then we'll see what we can do.

Cory screen shared one of the photos sent yesterday of the area with a gray section of dirt to confirm it was the area Dusty was talking about. Cory said he thinks it is degraded hydrocarbons. Dusty said it smells terrible, like death and oil. Cory said it should be soft and the lab samples will probably reveal hydrocarbons – signs of a really old spill. Dusty said the field guys had to take a break from excavating it for a few days to let the odor dissipate. He agrees with Cory that it's soft and coming out in clumps; they're just stuck at rock bottom now at 15'. Then benched 2-3' up. Cory said it may pan out. Dusty wanted lab results to confirm what we were chasing, especially if it's going to require a deeper hole. The top of the floor of Phase 1.5 was yellowish and then they encountered this.

Cory asked if Dusty could measure how far it is from the wellhead. Dusty is on location and said it looks like it's about 40-50' from the wellhead. Cory said it could be an old reserve pit with

degraded hydrocarbons or bentonite clay. Based on the color it could be an old reserve pit or flowback pit. He asked Clair if they did a photoionization detector in the field. She didn't have the equipment at the time, but thought it might look like old drilling mud. Cory asked if there was any trash found within the area. Dusty did not find any. Typically BOP to reserve pit is about 40'. Dusty confirmed when they build pads they do about 40-50' from the wellhead. So we're unsure where this will lead.

Clair said if the results aren't screaming hot, they can get as much of the material out as they can, then rock hammer or pick the rock to see if deeper. Cory said if the rule was followed to a "T", they'd get as much as possible, delineate it, profile it, and ask for a variance to keep it in place. The main concern is being water levels not being affected and benzenes & chlorides. If it's an old reserve pit, it could be 60-125'. Dusty agreed for a vertical well it could be 60-150'. Although it has not backed into our Phase 1. They left a buffer in place there that seems OK.

Cory asked when the soil turned this color during the digging. Dusty said it started with darker soil but about 4-5' they started seeing this, and then it got nasty at the bottom.

Cory opened Google Earth to place the location. It's slightly North and West of the wellhead. He didn't see any old tanks, but Google Earth only goes back to 1985 and this well is from the 50's. (Jenni update – drilled in 1942 as an oil well). Dusty also said there's a piece of concrete they found in the 'wellhead peninsula'. It's a few feet below the surface. They can't pick it out because it seems to be connected to the wellhead. It doesn't look like the typical T base nowadays. They'll just leave it undisturbed.

Cory asked Clair what the old delineation depth was. Clair confirmed 10' was expected; there was high TPH to 10-15' below surface; and dropped below RRALs at 20'.

Weather Delays: None at this time.

Two Week Look Ahead:

Dusty summarized by saying we're chasing these problem areas down to the West and focused on hauling dirt off site. He said it looks like a good dirt bike track for kids with all the different levels out there. We'll see what samples say.

Ryan said something to think about – is there a way to cap the reserve pit & if it can be fully delineated.

Cory asked if the September ACO deadline could be met. Dusty thinks it can if the excavation stays shallow on some of this stuff. They may still be hauling containment dirt off site, but if they stay shallower the cubic yardage will be the same/slightly less than Phase 1. Hopefully we'll be alright.

Clair asked if "fully delineated" meant using the 2019 delineation data, or re-delineating. Some may require more than a backhoe. Ryan and Cory aren't sure yet. We'll look into it further when more data comes back.

Daniel is good. We're all good. Faith will be out next week, but Ryan and Daniel can be reached if necessary. Dusty's drone photos were very much appreciated; he'll try to get them regularly.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: Need to chase down problem areas to determine extent of damage.

Critical Path Considerations: None today.

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Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks (Phase 1.5)
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Continually remove spoil dirt to assist with Phase 2 excavation dirt accumulation.
 - b. Waiting on lab results from Phase 1.5 and NW Phase 2.

Assign Follow Up Tasks For New Business:

Verify Date and Time of Next Meeting: 8:00 am, Wednesday, July 27, 2022

Adjourn: 8:36 am

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

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Site outline

Pha

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- - Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #39 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 7/27/2022

Meeting Time: 8:04 am, Wednesday July 27, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, August 3, 2022

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Sampling is ongoing. Results were circulated yesterday from samples taken 7/6/22-7/12/22

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Two-Week Performance/Abbreviated meeting due to lack of participants (summertime): Dusty said they've excavated a lot of the Phase 2 material out. Tetra Tech's field screenings from yesterday were looking like they were hitting higher chloride levels in some places; they'll probably have to take out another couple of feet to 8-9' deep (West of phase 1.5 about 60 feet from well head.) From the East wall headed West towards the fence line they're seeing high chlorides. They started digging the floor out more after Tetra Tech left. They are 4-5' deep from the mid-section of Phase 2 to the fence line now.

Faith asked if the results will meet OCD levels. The results we had received were circulated yesterday. There are a couple of areas that aren't looking good. The West sidewall corner of the NW 'pit' of Phase 2, they scraped back another 1-2'. The floor looks good here though. They scraped the walls and the chlorides look clean. There was a larger hole within the small pit with high TPH that they dug out. They dug out the area near the decomposed hydrocarbon zone; chlorides looked OK here.

Sadly, they found another decomposed hydrocarbon zone. It looks as bad as the first area. They haven't dug it out completely yet and they're down 15' hitting rock again. Dusty is unsure of the width. They're 60' to the South and it's still hot. It may be 60' x 30'? They'll end up having to dig out more of the 4-5' mid-section area too.

Weather Delays: None at this time.

Two Week Look Ahead:

They'll continue excavating and removing dirt. Discussion on capping the bad areas and requesting a variance. We're unsure of the details for this process, but we should all discuss soon since the ACO deadline is 9/30/22. We'll try to start an email conversation on it later this week – how to cap it.

Dusty is working on another project where they had to wait over a month for a GCL. He learned there are only 3 plants that manufacture these in the US, so it will take time. It may be better to try to dig it out for time's sake? We just found the second bad spot last week and Dusty dug it out until they hit rock and then started trenching. Faith says all parties need to review the current status and then we can all decide on best path forward. We think this may fall into 'unforeseen condition' category.

Dusty is concerned we may end up excavating back East towards Phase 1. He can see plastic liner coming up in the dirt they're excavating in the small pit in the NW corner. The chlorides in the field screenings seem like they're OK in some areas at least. The NW pit chlorides looked OK.

However, the West wall of Phase 2 was 1200 in the field, so they need to take it out further, but we're about 1-2' off the fence line already. Then they're off lease.

We'll have a meeting next week with everyone to try to figure out a game plan for moving this forward with little delay.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: Need to chase down problem areas to determine extent of damage and we're encroaching on fence line to the West.

Critical Path Considerations: Second area of decomposed hydrocarbon discovered. Size is still being determined. We need to know more about capping and requesting a variance, or other options.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks (Phase 1.5)
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Continually remove spoil dirt to assist with Phase 2 excavation dirt accumulation.
 - b. Lab results from Phase 1.5 and NW Phase 2 7/6/22-7/12/22 circulated. Need to all discuss/review.

Assign Follow Up Tasks For New Business:

Get Ryan and Cory's input on capping and variance options for the two decomposed hydrocarbon areas.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday, August 3, 2022

Adjourn: 8:20 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site o

Site outline

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Phase 1 Remediation Area

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Test Well #2



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #40 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 8/3/2022

Meeting Time: 8:01 am, Wednesday August 3, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, August 17, 2022

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Daniel Gallegos		dgallegos@slo.state.nm.us	NM SLO Water Bureau

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Sampling is ongoing and results are being circulated as data is received from the lab. Communicate with OCD on variance request to cap two decomposed hydrocarbon area.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Two-Week Performance (one week since last meeting):

Clair's tech from Tetra Tech has been on site sampling the problem areas identified from the recent lab results. The new field screenings are showing less impacted chloride areas. The lab results will be needed to determine the other constituents. They've moved a lot of dirt around the location. Dusty said they haven't really dealt with the new area of decomposed hydrocarbons. They're focusing on the smaller stuff first, clearing up those areas and avoiding the gray areas.

The West wall of the first hydrocarbon area looks good for chlorides. They dug out about 10' to the West. There's a large rock that slightly raises the elevation in this area, but they can't get through it. The Southwest wall is also testing good for chlorides. They skimmed back 4' level to the area West. Then to 8' in a couple of spots, minus the two hydrocarbon zones. They're going deeper than 4' to get to the deeper threshold acceptance levels; it should help them out with testing thresholds.

The hydrocarbon zones are still an uncertainty. Dusty may need different equipment on site. The GCL's have long lead times. Dusty has a vacation lined up and our ACO is due at the end of September so we don't want to wait to make decisions on how to deal with the hydrocarbon zones.

Faith clarified that the 4' deep area was along the West side of Phase 2. Clair confirmed that those areas were field screened, and chlorides were a bit above the 600 mg/kg chloride content, so they'll grade lower and collect samples again.

Faith said that SLO does not need a variance request for a liner to be installed, but OCD does so we need to get with Cory on this aspect. She asked Ryan for his thoughts on leaving in situ, if he has a liner preference. Ryan said he'd be OK with a standard plastic polyethylene, but Cory would need to agree. This would cap both degraded hydrocarbon areas.

Dusty asked how much they excavate out before the cap goes on? There may only be a small sliver between the two areas, so he may want to take it all out. It's a 30' x 60' area that is 13-15' deep, depending on the rock depth. They saw a portion of the rock around 13-15' in the Southwest corner of Phase 1; it appears to run under the entire site in areas. The 30' by 60' area is an estimation by Dusty from looking at it. He hasn't touched the North wall yet. They also have to avoid the Monitor Well between the two areas of Phase 2 (NW pit and area to West of Phase 1.5). Site elevation seems to have led to fluid migration heading NW over time.

Clair screen shared her KMZ 'in progress' she is updating. BH-118 was the first gray area North of the wellhead. The second one isn't on a KMZ that has been shared yet, but it's around BH-165, which is the NW corner of the Phase 2 middle portion. They just took samples and are waiting on

results from the West sidewall. That data will reveal if the excavation will need to go further West outside of the lease line.

Weather Delays: None at this time.

Two Week Look Ahead:

Faith confirmed our lease is our current footprint, but she can make sure we can go outside lease if necessary. There are a lot of pipelines, including a buried produced water line running alongside the West side of the lease, so that should be a fun issue.

Faith reminded us to wait and see what the results say. The Spill Rule is OCD's so they'll need to weigh in. Off lease spills are still required to be cleaned up. The SLO take on it is different. It's clear there are legacy problems at this site and Dufrane has already done a lot of legacy clean up. There are a lot of lines in the area and not a lot of spill reporting has been done. Historical imagery proves that and Faith doesn't intend to make Permian clean everything up. Some legacy problems may remain. We do need the OCD to weigh in since the ACO deadline is the end of September.

Faith asked Dusty, Clair and Jenni to get with Cory and submit the necessary items to gain a variance to cap the degraded hydrocarbon areas with an HDPE liner since the GCL may take a long time to obtain. Faith and Ryan will also communicate with Cory regarding the plastic liner and variance. If everyone approves a plastic liner to cap, Dusty can excavate out as much as possible around the areas. They'll continue to clean up the other areas with less impact/concern.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: Need to chase down problem areas to determine extent of damage and we're encroaching on fence line to the West.

Critical Path Considerations: Second area of decomposed hydrocarbon discovered. Size is still being determined. We need to know more about capping and requesting a variance, or other options.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks (Phase 1.5)
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Continually remove spoil dirt to assist with Phase 2 excavation dirt accumulation.
 - b. Ongoing sampling in field chasing down hot spots. Results coming in and circulated upon receipt.

Assign Follow Up Tasks For New Business:

Get Cory's input on capping and variance options for the two decomposed hydrocarbon areas. Submit variance request with OCD.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday, August 17, 2022

Adjourn: 8:27 am

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations***

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site outline

- - -

Phase 1 Remediation Area

*

Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excevate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #41 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 8/17/2022

Meeting Time: 8:02 am, Wednesday August 17, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, August 31, 2022

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Cory Smith	505/419-2687	Cory.smith@state.nm.us	NM Oil Conservation Division

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting: Discuss variance request and updated lab results.

Assign Follow Up Tasks For Incomplete Old Business:

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Two-Week Performance:

Dusty was on vacation for a week, but Dufrane continued excavation of the problem areas we'd identified. Those spots were dug out further for more testing. Clair will have a tech out tomorrow and Friday. They continued to haul dirt out.

Faith asked Cory to talk about the variance requests that were submitted to him. Cory had a death in the family and has been out of office, so he has not looked at it until today. Clair summarized that BH-118 was the original problem spot. Then BH-119 and BH-165, but recent lab results show those are OK. At BH-118 they first found gray material, 4480 TPH at 10' and at 13' it was good/non-detect. BH-199 & BH-165: 119 had odor but tested at 10' and it was below; 165 had gray staining and odor and was trenched to 13' and tested good. It was backfilled after they grabbed samples for safety concerns. The variance request was submitted for BH-119 and BH-165, but now possibly BH-164. Cory found the most recent email from Jenni on Monday with these updated results & map. Cory, now reading the results aloud – BH-118, failed at 10', now OK at 13'. BH-119 had odor, dug down to 10', it passed. BH-165, just to left of BH-119, OK now, it passed, but BH-164 is now the new problem child. Clair confirmed that is correct. They're going to resample that area. There's nothing in the field notes, but it exceeded for DRO. BH-164 is just south of BH-165 a few pins on the KMZ. Near SW-55. It's at 8' now; they're going to trench it to find the bottom. Cory says this sounds logical. Clair said they'll also sample the remaining areas and hopefully keep moving forward. She asked Dusty if the site was dry and he confirmed they hadn't received any rain.

Cory and Clair discussed how much area was left and if the variance request could be ignored now. They still need to dig the light blue area on the KMZ along the west side and southern yellow area. She'd like the variance to still be in play in case they run into something else. They still have a day to a day and a half of sampling to get everything to the lab, and need to dig out BH-164 more.

Weather Delays: None at this time.

Two Week Look Ahead:

Faith brought up that we're right up against the west side of our lease footprint and there are surface lines right on the other side with history unknown. Maverick is taking over the oil & gas lease. SLO is reviewing the lease history for environmental incidents and the company history for Maverick. It shouldn't affect our remediation project though. She's uncertain if the operator change has been submitted to OCD.

It's mid-August and we have an end of September deadline, where does Dusty see the next two weeks going? Hopefully the field screenings and lab results look good in the areas we've dug deeper. He is concerned with the fence line and going out past that. Faith asked Cory to explain the OCD spill rule regarding spills off lease and it's requirements. Cory's call dropped.

Dusty said they'll continue to excavate the hot spots, backfill, then move to the smaller spot to the south. He's been holding off on digging that out. Ryan got home from dropping his kid off at school and pulled up the KMZ map. Faith asked if Dusty could backfill the areas with recent clean tests. Ryan said it would be OK and they want to move this along.

Jenni to circulate meeting #40 minutes for Final by end of the week if no revisions received.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: Need to chase down BH-164 problem area to determine extent of damage and we're encroaching on fence line to the West.

Critical Path Considerations: Want to keep variance request on the table until BH-164 can be excavated and tested further.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks (Phase 1.5)
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Continually remove spoil dirt to assist with Phase 2 excavation dirt accumulation.
 - b. Ongoing sampling in field chasing down hot spots. Results coming in and circulated upon receipt.

Assign Follow Up Tasks For New Business:

Sampling on site 8/18 and 8/19. Clair will circulate results when received.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday, August 31, 2022

Adjourn: 8:25 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - o SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.
- **Plan may be subject to change depending on data from soil and water samples.**
- ***SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

____ s

Site outline

- - -

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ****



Progress Meeting #42 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 8/31/2022

Meeting Time: 8:03 am, Wednesday August 31, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, September 14, 2022

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting: Still waiting on updated lab results.

Assign Follow Up Tasks For Incomplete Old Business: Clair will circulate lab results when received.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Two-Week Performance:

Dusty said they continued to haul dirt out and backfill the areas that were able to be filled – south of the wellhead, 4' area to the west, also the small pit in northwest corner of location, the hot spot they had been digging out to the east, and the south wall of the small pit.

They'd left an area in place between the larger phase 2 portion and the small northwest pit. Around the north side of the monitoring well and this small section they'd left in place they found another degraded hydrocarbon zone. At 4' it was nasty and Dusty told them to keep digging it out until they hit rock. (Jenni added this in: This area is north of BH-119 and BH-165 for reference). The three degraded hydrocarbon zones may have bled together somehow underground.

There has been a lot of rain and it's been muddy. Dusty has shifted focus to moving the stockpile out. It may be too muddy and sloppy soon to continue with excavation. He doesn't want the heavy machinery to mess up the clean backfilled areas.

Faith asked Clair for an update on the soil samples. Clair said she's still waiting on the results and the lab is just really backed up. She's hoping they'll come in the next day or two but they're just busy. She confirmed that they sampled BH-164 and the west side trench so it will be a full picture of everything when the data comes in.

Faith asked Dusty how deep the third degraded hydrocarbon zone was. Dusty said they dug to 4' initially, then 6', still nasty, so he told them to just keep digging until they hit rock like the other two zones. It looked the same as BH-118, BH-119, and BH-165. They're about to 14-15' now and look like they're hitting rock again. Faith asked how Cory had felt about the status of the other two degraded hydrocarbon zones. Dusty confirmed that the samples were clean at bottom once they were dug out. So hopefully once this has been dug out, they can resample and see clean samples in this zone too. Ryan said hopefully we won't run into any more of these zones. Dusty commented it's strange to chase them in the field; looks like they could have bled together but then there are clean streaks of separation between them too. No one has heard anything from Cory to update.

Weather Delays: There has been quite a bit of rain and may be more in the forecast. Dusty may have to shut down the site for a couple of days if this is the case.

Two Week Look Ahead:

We're nearing the OCD's deadline with this cleanup. Faith asked that everyone pay attention to correspondence regarding this to help Dusty try to finish in time. We're still making progress but

completing everything by the end of September with a few snags will make it hard. Dusty said they're about \$1.5 million in so far on the remediation and added fines and penalties will cripple us. Insurance budget has been surpassed and Permian is paying out of pocket. Josh and Dusty are going to finish the project no matter what; it's just already a lot of money without additional fines and we are still making progress. Faith said she would be willing to ask the OCD for an extension if necessary and Ryan acknowledged that we were still making progress and there have been smaller spills opened up for longer; the OCD is overwhelmed with spills right now.

Hopefully the last round of samples will come in soon and be clean and Dusty can focus on backfilling. If the third degraded hydrocarbon area is dug out and it samples clean at bottom, then that can be backfilled too.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems: New degraded hydrocarbon area being dug out to 14-15' (rock)

Critical Path Considerations: Want to keep variance request on the table.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks (Phase 1.5)
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Continually remove spoil dirt to assist with Phase 2 excavation dirt accumulation.
 - b. Ongoing sampling in field chasing down hot spots. Results coming in and circulated upon receipt.

Assign Follow Up Tasks For New Business:

Sampling on site 8/18 and 8/19. Clair will circulate results when received.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday, September 14, 2022

Adjourn: 8:19 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - o SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site

Site outline

Phase 1 Remediation Area

Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excevate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg C1*
 - STEKNO
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- - Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****Flan may change subject to sample data from spill and water testing ****



Progress Meeting #43 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 9/14/2022

Meeting Time: 8:03 am, Wednesday September 14, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, September 28, 2022

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Cory Smith	505/419-2687	Cory.smith@state.nm.us	NM Oil Conservation Division

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting: Lab results received and circulated by Clair.

Assign Follow Up Tasks For Incomplete Old Business: None.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Two-Week Performance:

The first week of September it had been rainy so it was pretty sloppy. Dusty emailed pictures. It was also Labor Day weekend. They were back to work at the end of last week. They excavated more material and continued to haul dirt out. Faith screen shared the most recent KMZ map for Dusty to walk us through.

Dusty referred to the green SW corner – was backfilled to 8-10" finished grade. SW-56 and SW-54 are open due to issues. The yellow area next to the SW corner – started backfilling, but left area around SW-45 open. They have not touched the tank area yet because he didn't want to open up too much. They dug out further on the little purple area, SW-63. Backfilled BH-164 and BH-119. Monitor well = open pocket of 15' buffer around it. Backfilled to E towards BH-191, SW-72. Dug all out to 14' until they hit rock. big pocket of hydrocarbon stuff. They were going to dig to 4', then 2' more, but once they dug it out it was mucky and smelled. So Dusty had them take it all out. SW-58, N of monitor well – dug out and it's ready for retest. They began to backfill the yellow area to the S and blue area in the NW corner and through to the light blue area to the E. He left a buffer at SW-46. SW-50 cleaned up, so they're filling up against that wall. SW-68, next to island around the monitoring well. Continuing to backfill N side of the injection well. The first hydrocarbon zone is clean, so backfilling that.

After looking at it all, it's not as bad as thought. Things are moving in the right direction. Dusty asked what is the plan with SW-46 N side of the pit and the W side of phase 2 area?

Faith said the exceedances are close. Mentioned a typo in the email for SW-58, was 88,970 and should be 8,970. The table has correct amount. Clair is hoping to have her reps out there Friday, but likely Monday for resampling. May need a variance for sidewall and monitoring well. They're not sure how much further out W they can go. SW-46 to the North too. They're about 6-8" from the fence line. They'd have to remove the fence and then there's polylines in that area. Same for the N side and that has the DCP line that we had to have them cut early on.

Cory asking questions looking at KMZ map. Has Clair sampled outside of SW-56 to the West? Clair said she doesn't have those now. Cory asked if they took other samples? To grant the variance to the W, it must be fully delineated. We're below closure standards, but not reclamation closure standards. Cory asked if the area was undisturbed and there's lines out there? Dusty said there's mesquite shrubs, heavily vegetated and some lines. Clair confirmed to horizontally delineate to the W? Cory confirmed, told her to grab samples out that way and take pictures for the variance request. Show the vegetation and that it's growing. The tests are pretty low. SW-69 is high. It's by the monitor well. That should be OK around monitor well for a variance. There are tests all around it. Dusty will take

pictures today. Clair will get horizontal samples to the W and can send pics and request all together. Cory said it's better to submit a variance request for each area, keep them separate. Then it's easier for closure report. Dusty asked if we'd include a variance request for the N area, SW-46. Cory looked at the result, it's 995 and asked if it was also at the fence line. Dusty confirmed and said the DCP line is also cut there from when we first started. Cory said to request a variance to not go further than SW-46 and you're close to the variance standard, show pics of vegetation that is growing.

Faith said she was pretty delighted with the numbers.

Cory asked if 45 will be dug out, to the S? Yes, may wait to dig out SW-54 and 45 when we go further S. Hoping battery containment is good. Clair said down to 4-5' deep. Dusty said they'll wait to submit the variance request to see all of the W wall. Cory said to grab samples to get an idea.

Ryan said he was able to relent on some of the spots. Asked if Dusty was expanding on SW-72? Dusty said it's up for retest. E of SW-72 has actually been excavated out. They're out as far as the purple shaded area below it. Ryan asked BH-191, 193, 192? Dusty said yes, it's excavated to 14-15' to rock and it's ready for retest. That purple area is 14-15'. Cory commented that it went from 5' to 15', must have been pretty nasty. Dusty said it was. They took 4' down and just kept going. The odor was bad. Ryan thanked Dusty for explaining everything going on.

Weather Delays: Site was shut down at the beginning of last week due to rain.

Two Week Look Ahead:

Faith went around asking everyone for their questions. Cory asked if Dusty would be done by September 30th. Dusty said it was going to be real close. It'd be backfilled and to be topped with caliche. Polishing will still need to be done. And dirt hauled off still. He is optimistic but can't tell him for sure. Cory said so the remediation will be done, just not capped? Dusty said yes, it would be close but not picture perfect. Cory asked how much impacted soil was left? Dusty estimated 10,000 yards.

Ryan asked if Dusty had seen anyone out there working on an old tank battery to the SW lately. Dusty said yes, there have been some tank vac trucks and some tanks being removed. There's a small building around the wellhead. Ryan said they didn't know who was doing that.

Clair is good. She will send notification email for sampling soon when it's confirmed. Send Jenni #42 edits if you have any.

Dusty said he worried about issues with getting lab results timely, probably just going to say to pay more to expedite, but stuff that's out of our control generally, what happens if we don't meet the deadline? Cory said we'd be out of compliance with the rule and could be fined up to \$25K per day or \$2500 per day, unsure on that. He doesn't do it often. He doesn't know if they'd take that route per say, but 2 years is a long time to have this open. Dusty asked if it was the longest remediation and Cory wasn't sure. Faith said it was not for the SLO. She asked Cory for lenience because they're seeing good progress. The weekly meetings have been good for the Water Bureau and Commissioners to think we're making progress and in good faith. Cory doesn't disagree. He's saying the extension request was in March and we've all known what to work towards. Concerns have been communicated about getting rid of soil faster. Weather is it's monsoon season, rain should be expected.

Faith told Dusty to dig and haul like the wind.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

Critical Path Considerations: Want to keep variance request on the table.

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks (Phase 1.5)
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Continually remove spoil dirt to assist with Phase 2 excavation dirt accumulation.
 - b. Ongoing sampling in field chasing down hot spots. Results coming in and circulated upon receipt.

Assign Follow Up Tasks For New Business: Another round of resampling

Verify Date and Time of Next Meeting: 8:00 am, Wednesday, September 28, 2022

Adjourn: 8:40 am

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Si

Site outline

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #44 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 9/28/2022

Meeting Time: 8:06 am, Wednesday September 28, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, October 12, 2022

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting: Preliminary lab results received and circulated by Clair. She's waiting on BTEX results.

Assign Follow Up Tasks For Incomplete Old Business: Clair will circulate final results when received.

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Two-Week Performance:

Dusty started by saying that all areas previously excavated that tested clean have been backfilled. He referred to the updated KMZ map Clair sent, and it has new colors now. BH-191, 192, and 196 were dug down to 15' and tests came back good, so that's been backfilled. BH-122 and 127 area was backfilled. All up to the North and East, where the small pit was has been backfilled. Everything except the area around the monitoring well and the areas where additional data is needed has been backfilled.

They started digging out the old tank area in the Southwest corner for testing. They continued to haul dirt out. Faith asked the current size of the stockpile across the road. He said it is about 5000 yds. It won't all be hauled out by September 30th. Last Wednesday they'd backfilled all the areas they could and have focused on hauling of dirt since then while waiting on test results.

Faith asked about the test results. Clair said she received preliminary data for TPH and Chlorides, but not BTEX. Importantly, most samples came back good with the horizontal samples they collected for the North and West variance requests. The South portion, new area had 4 bottom holes and 1 sidewall that exceeded for TPH. Faith clarified that this was the old tank battery area. Clair said they may need to request a variance there. The TPH threshold is 1000 mg/kg for GRO/DRO or 2500 for total TPH. We had 1200 mg/kg GRO/DRO and 1 had 3000 total TPH. BH-201 was higher though. Dusty thinks it looks like a vein running towards BH-207, which is good. Clair said they're at 4-1/2' deep, but they didn't have good data on that.

Faith asked Dusty based on his experience with this site if was able to continue excavation. Dusty asked Clair was our next depth was. Clair said we're at it. Dusty said if we're right at the mark for BH-200, 201, 205 and 206 we can try to go 2' deeper. Clair said BH-201 and 205 will be tough because they're right next to each other. She screen-shared the KMZ. SW-77 also had a slight exceedance, but the samples look OK in the preliminary results, just still need BTEX. Faith said we were set to request a variance there and asked if it was feasible to excavate out another 2'? Dusty said they could. He asked if he needed to go out further East on SW-75, like 1'? Clair said 10'. Dusty confirmed to excavate down to 5-5-1/2' and out 10' to the East. Start at trench at BH-201 and go East. Clair said that should be all that's left.

SW-72 was a bit high for TPH, but it's 8' deep and it's hard to grab at that depth. Faith said it's not safe and we've already done so much it's not rational. Focus on going to 5-6' in the old tank battery area. Dusty said SW-72 is about 15' away to getting too close to SW-8 and 9 in Phase 1. Faith said she wasn't as concerned with this exceedance now that the site with backfill is looking pretty good overall and it will be difficult to get in there. Ask for a variance from Cory. Dusty said he could excavate, but

putting someone down there was the issue. Faith asked for the exceedance and Clair thought it was around 400 TPH, which Faith said wasn't too bad.

Weather Delays: Site was shut down at the beginning of last week due to rain.

Two Week Look Ahead:

Faith asked if Dusty had his method for the South excavation. Dusty confirmed he has the room for it. He has trucks and people. He'll be able to backfill and continue to haul dirt out. The final grade and polishing will still need to be done and breaking down the berm and liner for the stockpile.

Faith asked Clair how long the closure request process takes. Clair said once she gets the final lab results for recent samples, she can submit a variance request, then we can submit a final report. This is a beast of a remediation and it will probably take her 3 weeks to pull everything together to submit the closure report. Faith asked that since Ryan and Cory aren't on the call, can we let them know what we've discussed, what we're submitting and when. So they can keep it on their radar that we're continuing to move forward. Lay out a schedule for them so they know what we're working towards.

Dusty asked if we should leave SW-72 and the monitoring well area open? Clair will try to get that variance request submitted to Cory today. Cory won't approve other variance requests until the final lab results are received. Dusty asked if he'll need to wait a bit and Clair said he should approve it. Discuss strategy for backfilling only certain areas and how long it may take to get the results in so Clair can request a variance for the North and West boundaries. Clair hopes she can submit requests for these areas by end of week. Faith asked if Dusty just focus on excavation this week until we know on variance for backfilling? She asked Clair how long variance requests usually take to be granted. She said usually as fast as they review them; she usually includes them in work plans, but they're mainly double-checking data so it's usually pretty quick. We're trying to avoid holdups in the field.

Dusty can backfill BH-155 and 156 in a day – day and a half, then excavate the area that needs to be dug out more.

Faith asked if we should meet next week and if anyone has any questions? Clair has no questions. Thoughts on meeting next week is based on Cory's responses to her requests. Dusty said unless they're able to get more samples he's not sure if there's enough to discuss by next Wednesday. The end of next week would be better. Jenni said that keeping everyone in the loop through email with the sampling and results and variance requests seems to work for the most part. We can decide to have a meeting if needed.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Critical Path Considerations: Keeping variance request on the table.
Commissioning:
Special Inspections:

Unforeseen Conditions or Problems:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks (Phase 1.5)
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Continually remove spoil dirt to assist with Phase 2 excavation dirt accumulation.
 - b. Ongoing sampling in field chasing down hot spots. Results coming in and circulated upon receipt. Hopefully down to last round of resampling Phase 2.

Assign Follow Up Tasks For New Business:

Dusty to dig out Southwest old tank battery area more and another round of resampling for BH-200, 201, 205 and 206 and SW-75.

Variance Requests submitted to Cory.

Dusty, Clair, and Jenni to visit and lay out when last items will be completed with approximate timelines for Ryan and Cory so they are in the loop without needing to see these minutes.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday, October 12, 2022

Adjourn: 8:39 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site outline

Phase 1 Remediation Area

Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - All areas not noted in key, excavate to 6'.
 - Final samples to the following closure criteria:
 - 1,000 mg/kg TPH.
 - 7,000 mg/kg CI*
 - STEKNO
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

- - Completed/Out of scope areas
- - Areas of 15' excavation
- - Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days. **
- and len may change subject to sample data from spill and water testing that



Progress Meeting #45 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 10/12/2022

Meeting Time: 8:02 am, Wednesday October 12, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, October 26, 2022

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Cory Smith	505/419-2687	Cory.smith@state.nm.us	NM Oil Conservation Division

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting: Final lab results w/ BTEX received and circulated by Clair.

Assign Follow Up Tasks For Incomplete Old Business:

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Two-Week Performance:

Dusty started by saying they lost about a week due to rain. Prior to that they've just been backfilling clean area and hauling bad dirt off. Yesterday he had the loader backfilling and adding dirt to some of the puddled areas.

Faith asked Cory if he'd had a chance to review the emails Clair had sent yesterday. He's been off and away from him computer since last Friday. Dusty said she'd sent variance requests for the North wall, West wall boundaries, the monitor well area, and another side wall between two areas. She sent one variance request per email.

Cory asked the results of H-2, -3, -4 & -5. Dusty said those were all clean. These results are on the last page of the most recent lab results. Jenni mentioned the email had not included the pictures Dusty had previously sent showing vegetation regrowth outside the fence line. Cory asked if the variance request was for the top 4' and Dusty thought it was. Cory said those numbers look fine.

Moving on to the variance request for SW-72, up by the hot spot. Clair's email has the data in it. It's on the East side of Phase 2, 25' from Phase 1. Dusty found Clair's email to read. Cory asked what was so hard to sample? Dusty said it was not benched and a sheer 8' drop. Cory asked if they could use a backhoe? Dusty said they'd have to bench the sidewall back. The results are 436 so we'd talked about it and thought it would be OK. Cory said he has to defend his response and it wouldn't be vertically delineated. Dusty said the sample was collected at the bottom half of the wall. Cory is wondering about the area between SW-72 and SW-9 (in Phase 1). He's wondering if that is clean, or how much would you be leaving in place. Dusty said we'd need to get with Clair to respond. Cory said that at 8' 436 is fine. He has issues approving a variance in the middle of a site. He said to backfill and get a clean sample later. Other people have to review this too and we have to show that it doesn't go any further. Needs to be vertically delineated. He has to see the numbers so talk to Clair.

Moving to H-1. That is clean. Cory confirmed Dusty had been sent pictures of vegetation along this North side of the fence line also and said that should be OK. Dusty said he'd get with Clair about SW-72. He asked if the monitoring well variance was OK. Cory said he was fine with leaving that in place. It was for SW-71, -60, -70, & -69, sent on September 30th. Dusty read some of the figures from the email. Cory asked him to hold on; he was responding to the variance requests, so we had what we needed to move forward.

Weather Delays: Site was shut down for about a week with uncharacteristic rain for this time of year.

Two Week Look Ahead:

Moving to discuss SW-45 and -75, Dusty said he's going to take those out 4' down and 10'. There's a white rectangle on the KMZ about that far out East. He's going to expand SW-76 out and field screen to see how the results look for how far they need to go. HZ-7 was good. It's been too wet to expand. It's the area right under the old tank battery. The field screenings looked bad so they'll take it out further. Dusty asked their thoughts. Cory said it could be a lighter impacted area, these do weird things, it could have been right where a valve was by the tank, who knows, let the data drive you. If you can get it under the thresholds, you're past the deadline but you're close. Maybe you do a trench between SW-72 and SW-9 and dig a trench to check depth.

Faith asked when Clair could come sample again. Dusty said they needed it to be dry enough to get the machinery in place first for her to get in there and she's been busy. Possibly this week, but it's already Wednesday and they still need to dig. He'll check with her.

Faith asked if everyone had any comments. Jenni is good, meeting minutes are up to date. Dusty is good. Cory is good and he's approved all the emails we sent. Faith let us know of SLO change up and Ryan will be stepping down from remediation. His replacement got pneumonia though. Faith doesn't think she'll be involved with this one since we're getting close to finishing.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

Critical Path Considerations:

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks (Phase 1.5)
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Continually remove spoil dirt to assist with Phase 2 excavation dirt accumulation.
 - b. Ongoing sampling in field chasing down hot spots. Results coming in and circulated upon receipt. Hopefully down to last round of resampling Phase 2.

Assign Follow Up Tasks For New Business:

Dusty to dig out Southwest old tank battery area more and another round of resampling for BH-200, 201, 205 and 206 and SW-75 and SW-76. Dusty and Clair to get game plan for sampling SW-72 further.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday, October 26, 2022

Adjourn: 8:43 am

- *Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct
- ***SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations***

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site

Site outline

Phase 1 Remediation Area

Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg C1*
- STEXND
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ****



Progress Meeting #46 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 10/26/2022

Meeting Time: 8:03 am, Wednesday October 26, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, November 9, 2022

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Two-Week Performance:

Dusty started by saying the prior two weeks saw a ton of rain that impacted the site and the ability to work. This Monday was the first real day they're all back on site. Last week they were able to work a bit hauling the stockpile out. Monday they were able to start backfilling along the Western edge and Northern edge, and around the monitoring well where variances were approved. They're finishing the backfill that was needed in the deeper areas. They would have been much further along at this for today's call except for the rain. They're hauling and working now though.

They started digging out more at the old tank battery location in the SW corner. They dug out 4-6' on the South side wall and East side wall to add to the stockpile. They're right by the entrance and doghouse and telephone pole, so they're working carefully around that area. Faith asked if they would need to move the doghouse. Dusty said they may have to if they continue further East; it's a bit congested in that area.

Faith asked how far along they were with backfilling? Dusty said 75%, maybe 80%. They'd be a lot further if it hadn't been for the rain. They're filling the deeper areas now that were 15'; it takes some time.

Faith asked about the site conditions currently. Dusty said it was still drying out. It's wet, but not saturated anymore. Monday there was a small shower, but it didn't rain a lot. It's actually tightened the ground up a bit. The machines are running on it OK and compacted it in.

Faith asked about the condition of the lease road and if there were other companies using it? Dusty said it was OK – there's one large puddle they avoid. There's quite a bit of traffic out there, but they're usually not in the right places so they turn around. There's a lot of truck traffic and activity, fracking out there. Faith asked who it was. Dusty said it's over a hill so he's unsure, but once at the highway you can look back and see it in the distance. He hasn't driven that far back out to check out lease signs. Faith said if the road deteriorates too much from wear, we can ask some of the majors to clean it up if they're out there. Dusty said Merchant Livestock is out there with a private property sign and they want you to sign for surface use to cross. Faith said they're collecting tolls out there, but they're not putting it back into the road there. Dusty said he can check out lease signs; he thought Matador bought a bunch a land out there? Faith said yes although there may be issue with the sale, but she has nothing useful to state. Keep her informed if the lease road use becomes an issue to continue. Dusty said it's mostly guys coming out to do meter readings by our site.

Weather Delays: Site was shut down for about a week and a half from rain.

Two Week Look Ahead:

Faith asked Clair what sampling was still needed. Clair wasn't in front of her computer, but they need to resample the bottom holes that exceeded (old tank battery), SW-72 and 9 area, and SW-75 and SW-76. They're hoping to sample early next week. Dusty needs to dig out a bit more on the East side for Clair to sample. He should have it ready for her early next week.

Faith said it sounds like we have a plan that's reasonable for the next two weeks. Ryan said that someone from Merchant Livestock called him and said that Dufrane was putting contaminated soil back into the ground. Dusty said he had no idea, but he'd look into it. He didn't think that was the case. They haven't approached him. Ryan said Centennial and Mewbourne were in the area.

Faith asked if anyone had anything to add. Everyone is good. Meeting #45 minutes have been circulated for 48 hr review. Josh hasn't been on in a while. Dusty said he's up to date on everything and the plan is to just finish this out. Faith said she'd talked to him last about bonding and releases and that it was still her plan to release the bond when closure was approved.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

Critical Path Considerations:

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks (Phase 1.5)
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Continually remove spoil dirt to assist with Phase 2 excavation dirt accumulation.
 - b. Continued sampling in field chasing down hot spots. Results coming in and circulated upon receipt. Hopefully down to last round of resampling Phase 2.

Assign Follow Up Tasks For New Business:

Dusty to dig out Southwest old tank battery area more and another round of resampling for BH-200, 201, 205 and 206 and SW-75 and SW-76, and SW-72 area. Hopefully they will resample early next week.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday, November 9, 2022

Adjourn: 8:23 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

____ s

Site outline

- - -

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #47 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 11/23/2022

Meeting Time: 8:03 am, Wednesday November 23, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, December 7, 2022

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Two-Week Performance: (Four-Week Performance)

Dusty reminded us that they'd struggled the last few weeks with rain delays, but they are finally back on track. They've excavated out more of the smaller old tank battery area - the southern wall SW-76 and SW-79, and the east side wall and floor (SW-75 and SW-83). They're at the southern edge border of the lease. There was about 1 week between excavation and samples coming back with data. Clair circulated soil results to everyone yesterday

They continued to backfill phase 2. SW-72 was delineated for Cory; Clair sent that data to Cory yesterday. All were under thresholds. That's being left open for now.

They backfilled the western side of the small tank batter where it's clean. They've been hauling dirt out, running 13-14 trucks at a time, then something breaks and they may go down to 8-9 trucks at a time. Dusty is using 4 different truck companies to haul off the stockpile of dirt. The liner and last bit of dirt on top will need to be hauled out. It's estimated to be around 3,000 yds left. Backfilling is approximately 93-95% complete, so they've been making good progress there. Trucks can run over areas now and they're using machines to smooth it out. It's filled with red soil and there will be caliche on top to finish it off. Caliche will need to be brought in.

Faith said that sounded good. She wanted to know about SW-81 and SW-82, the small inner wall area tank battery area with exceedances and the plan for that. Clair said those are above SLO and below OCD thresholds for chlorides. They can leave in place or expand. It's between 4-10', so it'd be expanding 10' down. Faith confirmed the exceedances were at 4'? Clair said they were at 4.5' because the top 4' is already gone. Faith is working from Michigan and using a smaller laptop to look at the kmz and table. She asked about results between here and SW-77 to the west/western edge of excavated 4'? Clair said 4.5'. Faith: there were exceedances at SW-77? Clair; Yes, most exceeded for chlorides and that's why they horizontally delineated and requested the variance there. Faith said where we're at with SW-81 and SW-82 is OK.

Clair said based on the recent results, they still need to do more digging and get the SW-72 variance. SW-75 was above chloride thresholds from surface to 10' and will be expanded out further east to 10' deep. SW-76, SW-79 and SW-83 exceeded at 4'. The doghouse is close to this area, but HZ-7 was clean. So top 4' needs to be expanded in these areas.

Faith asked if we had samples for the entire old tank battery area now. Clair said yes. And BH-210 exceeded for TPH. Dusty said the plan is to dig out a 400 square foot area at BH-210 and see what they get. Faith said it looks like there could have been a leak, or a hole in the liner there. It's right under the old battery and it's an old facility that could have had leaks through the years.

Weather Delays: Site was shut down for rain delays but has been back at it.

Two Week Look Ahead:

Dusty will move the doghouse about 15-20' over to excavate the SE corner out further 10' to the east. He needs to keep trucks moving through the area. He's been using the western side of the old battery area that's been backfilled as a path. It should take 2 days to dig out the remaining area with the excavator. He'll make sure there is good traffic flow to haul and dig. Then get with Clair to resample. They'll take Thanksgiving day and Friday off. Hopefully they can sample in a week to a week and a half. And keep moving dirt out.

We all agree it sounds like we're getting close! Hopefully Cory can review and approve the variance request for SW-72 soon.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

Critical Path Considerations:

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks (Phase 1.5)
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Continually remove spoil dirt to assist with Phase 2 excavation dirt accumulation.
 - b. Continued sampling in field chasing down hot spots. Results coming in and circulated upon receipt. Hopefully down to last round of resampling Phase 2.

Assign Follow Up Tasks For New Business:

Dusty to dig out Southwest old tank battery area more and another round of resampling for BH-210 and SW-75 and SW-76, SW-78, SW-79, and SW-83 area. Confirm SW-72 variance request granted to backfill.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday, December 7, 2022

Adjourn: 8:22 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - o SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.
- **Plan may be subject to change depending on data from soil and water samples.**
- ***SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

_ . _ .

Site outline

Phase 1 Remediation Area

Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths
 - a) All areas not noted in key, excevate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
 STEX ND
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- - Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****Flan may change subject to sample data from spill and water testing ****



Progress Meeting #48 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 12/7/2022

Meeting Time: 8:01 am, Wednesday December 7, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, December 21, 2022

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Cory Smith	505/419-2687	Cory.smith@state.nm.us	NM Oil Conservation Division

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Two-Week Performance:

SW-72 variance was granted via email. Dusty said they took off for Thanksgiving and that night it started raining out there. The rain turned into snow Friday and Saturday. They got 2-4" of snow. The pictures he'd emailed to everyone were from Sunday evening. He actually almost got stuck out there. It melted on Monday but it was sloppy. By Friday morning it was still too nasty for trucks. It rained again Sunday night, but not much. They were able to get out there Monday to haul dirt out.

They haven't been able to start excavation on the small pit yet because it's still pretty nasty. They're mainly hauling dirt. Dusty was on his way to the site and it started raining on him. They can't get a break from the rain. He hadn't checked the forecast yet, but he was hoping they could continue hauling dirt. The snow really set them back. It's hard to report this.

Weather Delays: Site was shut down a week for rain delays but they've been back at it.

Two Week Look Ahead:

Faith agreed the weather slowed things down. She asked how much was left to haul. Dusty said 1500 yards across the road. It will be gone by next week and they'll build it back up when they dig the small pit out. It's 10' deep and 4' deep to the East and South.

Faith asked when they may be resampling. Dusty said hopefully by late next week. Clair said she needs a bit of lead time, but she should be able to schedule next week. Dusty asked to set it up for next Wednesday.

Cory asked what is still left to dig? Dusty responded the small tank battery area had to dig out the 4-6' area down to 10' at that BH-210. Then the further out East to 10' and further South 4' down. Cory said maybe 1000 cubic yards? Dusty said that sounds about right.

Faith chimed in that the weather was not looking good for Dusty. She asked if people were available on December 21 for the next meeting. Everyone is and Cory isn't sure.

Cory asked Clair to only show clean samples when she submits her final report. He said it will be cleaner and easier to review since there are over 200 samples.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

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Critical Path Considerations:

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks (Phase 1.5)
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Continually remove spoil dirt to assist with Phase 2 excavation dirt accumulation.
 - b. Continued sampling in field chasing down hot spots. Results coming in and circulated upon receipt. Hopefully down to last round of resampling Phase 2.

Assign Follow Up Tasks For New Business:

Dusty to dig out Southwest old tank battery area more and another round of resampling for BH-210 and SW-75 and SW-76, SW-78, SW-79, and SW-83 area.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday, December 21, 2022

Adjourn: 8:14 am

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

- 31

Site outline

Ph

Phase 1 Remediation Area

*

Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excevate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #49 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 12/21/2022

Meeting Time: 8:03 am, Wednesday December 21, 2022

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, January 4, 2022

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Cory Smith	505/419-2687	Cory.smith@state.nm.us	NM Oil Conservation Division

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Two-Week Performance:

Dusty said they've dug out the tank battery areas and tested last Wednesday, the 14th. Everything but the tank battery area has been backfilled. They're graded to the point where it sheds water, but they won't cap it until everything is complete. Subgrade is complete. They continued to haul the spoils across the road. 1/3 of back containment is down, 2/3 left to go. They're stockpiling clean dirt across the road for backfill.

Faith asked if they took samples at all 7 places that needed it? Clair said yes. They haven't gotten the samples back but based on what they saw in the field, it looked pretty good. Faith said that once samples back, if they're good, you can backfill the old Southwest area? Dusty confirmed yes, that will be the end of the excavation; it will be capping and removing spoils at that point. He'd say they are 95% done. Hopefully there are no issues with testing. Clair said they did field screening with exsticks for salinity, and they looked OK. Hopefully by this time next week she'll be writing her report. Faith said that was great news!

She asked about the grade for the caliche cap. Dusty said subgrade is ready for the caliche cap. They'll backfill the current areas and then caliche. Faith said caliche in January then? Dusty said yes, it will be a lot. It will probably take a week and a half to haul it in.

Faith asked about the new tank battery location? Dusty said it will be the same as the KMZ he'd put together showing all the pipelines is what he'd propose. Not the KMZ with all the testing samples. It was in the Northeast corner, portion of undisturbed area North of Phase 1. Faith said she was going to need to check if they've done an ARC survey for the entire lease. Dusty thought they had done one for the entire lease. Faith said she'd get with Dusty about it to make sure they have that on file with the Cultural Committee. Dusty said 'undisturbed' meant they didn't excavate it, not virgin land. Faith said there is a new Cultural property rule that went into effect December 1. She thinks they should be fine, but they should discuss.

Weather Delays:

Two Week Look Ahead:

Faith went around the call to see if anything had anything to add. Ryan said it sounds like it's coming to a conclusion, which is good. He was out on vacation for our last meeting. Cory said he had no questions, we're getting there. He'd like the closure report for Christmas Last meeting he'd asked Clair not to include dirty samples in the tables and place an 'x' on lab reports for dirty samples. It takes him longer to review, so just clean samples. Clair said there will be a handful of

samples, SW-78 she thinks, where it was completely removed. They usually highlight those of their tables but she'll note that on the table so it doesn't look like she's removed something entirely. Cory said that was fine, and color coding is fine too. Clair said she'd highlight and list if it's been removed or in situ. Jenni was good. Dusty was good.

Faith thanked everyone for their work. It's been a lot of work. She asked Dusty about the holiday work crew and hours and if January 4th worked for the next meeting for everyone. Dusty said they'll work a half day Friday and Monday off. They'll be back to work the 27th, 28th, 29th, half day on the 30th, back to work Tuesday the 3rd. They'll continue to haul in clean dirt and out bad dirt and wait for the lab results. We'll plan on the next meeting for January 4th. Hopefully we'll get good lab results and no more excavation.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

Critical Path Considerations:

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks (Phase 1.5)
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Continually remove spoil dirt to assist with Phase 2 excavation dirt accumulation.
 - b. Continued sampling in field chasing down hot spots. Results coming in and circulated upon receipt. Hopefully down to last round of resampling Phase 2.

Assign Follow Up Tasks For New Business:

Waiting on lab results for Southwest old tank battery area, BH-210 and SW-75 and SW-76, SW-78, SW-79, and SW-83 area.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday, January 4, 2022

Adjourn: 8:23 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - o SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.
- **Plan may be subject to change depending on data from soil and water samples.**
- ***SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

Site

Site outline

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ***



Progress Meeting #50 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 1/4/2023

Meeting Time: 8:06 am, Wednesday January 4, 2023

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: 8:00 am, January 18, 2023 or January 25, 2023

SUMMARY

- 1. Notice To Proceed Issued: <u>August 19, 2020</u> upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A
- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions LLC
Dusty McInturff	617/584-2889	dmcinturff@dufrane.com	Dufrane Construction

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Two-Week Performance:

Dusty said the holidays slow played the work a bit. They continued to haul dirt in and out. They've graded to the slope of location to shed water; they just need to cap it with caliche. They haven't done any more excavation – the same area is still open. The size and location make it hard to maneuver around the site.

Clair sent samples and we're still not out of the woods. The South side of the tank battery is close to the tolerance, but we're 2' from the lease line, similar situation to the North and West side areas. We think we'll be able to request a variance for that. We had a good reading at a nearby delineation point (HZ-7). There's no vegetation regrowth though because it's just a caliche area out there. Faith asked if it's in the area where there are three pipeline ROW? Dusty said it was, it's along the road, which is over a pipeline ROW. It's not a real road, it's along part of the ROW and it's pretty rocky. Possibly an old ranch road, pretty rough. The results were only a little above tolerance though. Faith said to request the variance there.

Dusty continued that the East side also had higher results than we'd like. He's been in the field a lot and hasn't been able to be on his laptop much so he's not exactly sure of the results but it was in the top 4'. They're currently at 10' from the Centennial lease line. They may be able to dig out 4-5', maybe vertically delineate closer to the lease line, but it's already close. Faith wondered if Cory would allow a deferral or variance. Jenni jumped in to read email from Clair to reference the sidewalls with exceedances: SW-76 to South, but we have good HZ-7 down there so possibly ask for variance there; SW-75, -79 and -83 along the Eastern wall. Faith asked how much further Dusty thought he could dig and he said he's right up against the lease line to try to get an excavator in there. Faith asked if he could do deeper because she's thinking further ahead for root vegetation and veg regrowth. 8' is better, if we're able to get what you can down to 8' that's reasonable, then ask for a deferral or variance. She uncertain of which one because they have specific meanings to the OCD with regard to when it's dealt with – now or once the well is plugged. She's uncertain how Cory feels about it.

Weather Delays:

Two Week Look Ahead:

Faith asked Dusty to get with Clair and see what they think they'd be able to manage going deeper. Faith asked Jenni to circulate Clair's email with the lab results to everyone. She doesn't want to hold up the project in the field by not getting Dusty responses on how to move forward and we're very close to being complete in the field. She'd like to see Permian get this SWD back up and running. She thinks that the work we've already done will be good for regrowth/re veg efforts in the future.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

Critical Path Considerations:

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

- 1. Phase 1 closeout tasks (Phase 1.5)
 - a. Phase 1 pit will be capped with an 8" caliche cap once both phases are complete. Continually remove spoil dirt to assist with Phase 2 excavation dirt accumulation.
 - b. Continued sampling in field chasing down hot spots. Results coming in and circulated upon receipt. Hopefully down to last round of resampling Phase 2.

Assign Follow Up Tasks For New Business:

Jenni circulate Clair's lab results for Southwest old tank battery area, BH-210 and SW-75 and SW-76, SW-78, SW-79, and SW-83 area. Need to address slightly higher results for SW-75, -76, -79, and -83 with OCD and field feasibility to remove.

Verify Date and Time of Next Meeting: 8:00 am, Wednesday, January 18, 2023 or January 25.

Adjourn: 8:23 am

*Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

_ . _ ;

Site outline

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths
 - All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
 STEX ND
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- - Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****Flan may change subject to sample data from spill and water testing ****



FINAL Progress Meeting #51 Template

Project: Kaiser State #9 Contract: SW-330 Today Date: 1/18/2023

Meeting Time: 8:09 am, Wednesday January 18, 2023

Place: Zoom https://us02web.zoom.us/j/81803325780?pwd=eS9GbDNaWHcyUmc5WXh2cEZLYW1ZZz09

Meeting ID: 818 0332 5780 Passcode: 998322

Next Meeting Date and Time: NONE

SUMMARY

1. Notice To Proceed Issued: <u>August 19, 2020</u> - upon Commissioner's signature date of SW-330 Easement re-issue contract Exhibit A

- 2. Original Contract Time for Phase 1 work plan: 90 days total (by November 16, 2020)
 - a. 45 days for excavation and final sampling
 - b. 60 days for back fill and clay membrane liner placement
- 3. Number of Contract Modifications to Date:
 - a. 4/14/2021; 1- SW-330 Amendment#1 adding acreage to include the new haul road location
- 4. Revised Contract Time for Phase 1 work plan:
- 5. Original Contract Substantial Completion Date:
 - a. November 17, 2020, missed
- 6. Revised Contract Substantial Completion Date:
 - a. July 12, 2021 (signed road acreage amendment 4/14/21 plus 90 days), missed
- 7. Delays: by Authorities Having Jurisdiction, Number-Log entries:
 - a. SLO- Rights of Ways for new haul road, 2/18/2021 amendment#1 sent to PWS. Executed 4-14-2021

Sign In Sheet / Attendance:

(Name, phone number, email, and representing what entity)

	,	7 1 8 17	
Faith Crosby	505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
Ryan Mann	575/392-8736	rmann@slo.state.nm.us	NM State Land Office
Clair Gonzales	432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
Cory Smith	505/419-2687	Cory.smith@state.nm.us	NM Oil Conservation Division

Review Previous Meeting Minutes:

Old Business / Action Items From Last Meeting:

Assign Follow Up Tasks For Incomplete Old Business:

None

Safety:

Site Observations:

Submittal Log: Dusty's side. Faith will help as much as she can.

RFI Log: Dusty's side. Submit requests to Faith, the RFIs will be Dusty's record and Faith will solve/help as much as she can. Dusty will generate project numbers for the RFIs.

Corrective Action Log: Faith will keep this.

Change Orders: If access under SLO Easement SW-330 needs to be changed, this will be done by amendment after an RFI.

If Dufrane has change orders to their contract with PWS those will be handled on the Dufrane side.

Collaborative section

Schedule: [contractor supply Gantt Chart]

Prior Two-Week Performance:

No prior Two-week performance available as Dusty is not on the call today.

Cory asked Claire about lab results chloride levels for SW-75, SW-76, SW-79, and SW-83. There is now an excavation proximity issue with east side lease boundaries, and Cory said we can use borehole data for SW-75 (CL = 1,020 mg/kg. at 0-4') and SW-83 (CL=1,070 mg/kg at 0-4'). SLO is in agreement.

Weather Delays:

None noted

Two Week Look Ahead:

Claire will put together a closure report with updated site maps, variance approval emails, bore hole data. Cory and Claire talked about submitting clean sample data and 'x-ing out' the few dirty results so data could still be seen. Cory said the closure request must be sent in separately for each open RP/incident. A deferral should be requested for reclamation and reseeding work until final site closure effort. Cory would like to see the report by the end of February 2023. Claire says it may be ready a bit sooner.

Contractor Staffing & Subcontractors: Permian Water Solutions make sure original contract with prime contractor includes specific language that explicitly states that all subcontractors and all subordinate sub-sub contractors -second and third tier subs – are contractually bound by the same terms and conditions as pertain between Owner and Contractor.

Unforeseen Conditions or Problems:

Critical Path Considerations:

Commissioning:

Special Inspections:

Payment Schedule:

New Business / Comments / Questions / Grantee / Lessee / Contractor / Landowner / Agency / Participant Concerns:

Faith would like to receive regular weekly short email updates from Jenni and Dusty regarding ongoing site work.

Assign Follow Up Tasks For New Business:

Claire will submit a closure request/ report for all open incidents by the end of February to the OCD and SLO.

Verify Date and Time of Next Meeting:

None. This meeting will be considered the final bi-weekly progress meeting for this group. Thank you all for the last 2 years and all the effort. Thank you for committing to come to all the meetings, each of you.

Adjourn: 8:31 am

SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations

^{*}Permian Water Solutions LLC to publish minutes, giving 48 Hours To Correct

MEMORANDUM

Subject: Kaiser State #9 Phase 2 Remediation Work Plan

Remediation Plan Requirements:

Phase 1 closeout must be completed including:

- Installation of Test Well #2
 - o Determination of source of groundwater contamination;
 - Development of abatement program with monitoring and recovery wells and reporting program.
- Phase 1 Final Report
 - o Include photos, final samples etc.;
 - SLO to confirm and approve.

A. Tasks:

- Submit new pad site plan for SLO review and approval.
- Remove any remaining equipment and debris in area.
- Excavate Phase 2 remediation areas to Map and Key listed depths.
 - i. All areas not noted in key, excavate to 6'.
- Requirements for final samples:
 - i. Floor samples to be taken in same location as previous samples.
 - ii. No less than 3 each cardinal sidewall samples around the perimeter.
 - iii. Samples shall meet the following criteria: 1,000 mg/kg TPH, 7,000 mg/kg Cl⁻, and BTEX ND.
 - iv. PWS shall give SLO 1 week notice prior to final samples being taken so that SLO staff may attend and take duplicate samples at PWS cost.
- Backfill non-blended soils and place a clay/bentonite mat at a minimum of 5'.
- Investigate off-pad spills and coordinate remediation and reclamation with SLO.
- Reclaim unused roads/pad areas in coordination with SLO.

B. Timeline:

- All equipment/debris to be removed within 30 days.
- Excavation and final sampling to be completed with 60 days.
- Backfill and clay membrane liner placement to be completed within 60 days.
- The proposed timeline for the first four stages is no more than 150 days.

^{**}Plan may be subject to change depending on data from soil and water samples.**

^{***}SLO approval does not relieve Permian Water Solutions of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, SLO approval does not relieve PWS of responsibility for compliance with any other federal, state, local laws and/or regulations.***

Kaiser State SWD #9

Phase 1 Work Plan Close-Out Tasks:

- 1. Installation of Test Well #2.
 - a) Determine source of groundwater contamination.
 - b) Develop monitoring and recovery well abatement program to remediate ground water and capture extent of plume.
- 2. Phase 1 Final Report.
 - a) Confirm all Phase 1 tasks were completed.
 - b) Include photos, final samples etc.
- 3. Conduct Phase 1 field inspection with SLO staff.

Map Key:

- 51

Site outline

_ - - ,

Phase 1 Remediation Area



Test Well #2

Plan may change subject to sample data from soil and water testing.



Kaiser State SWD #9

Phase 2 Work Plan Tasks:

- 1. Submit new pad site plan.
- 2. Remove any remaining equipment & debris on site.
- 3. Excavate Phase 2 remediation areas to Map Key listed depths.
 - a) All areas not noted in key, excavate to 6'.
 - b) Final samples to the following closure criteria:
 - 1,000 mg/kg TPH
 - 7,000 mg/kg CI*
- Backfill non-blended soils and place a clay membrane/bentonite mat at minimum 5'.
- 5. Investigate off-pad spills and coordinate remediation with SLO.
- 6. Reclaim off pad areas.

Map Key:

- - Completed/Out of scope areas
- - Areas of 15' excavation
- Pit location min 1' excavation
- - Pasture spills at new temporary staging area location
- **First four stages to take no more than 150 days.**
- ****plan may change subject to sample data from spill and water testing ****





Appendix D

Laboratory analysis

Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Midland 1211 W. Florida Ave Midland, TX 79701 Tel: (432)704-5440

Laboratory Job ID: 880-5572-1

Laboratory Sample Delivery Group: New Mexico

Client Project/Site: PWS-Kaiser

Revision: 1

For:

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Clair Gonzales

MAMER

Authorized for release by: 9/13/2021 9:28:06 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 9/1/2023 2:55:43 PM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Tetra Tech, Inc.

Project/Site: PWS-Kaiser

Laboratory Job ID: 880-5572-1

SDG: New Mexico

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Sample Summary	16
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Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 880-5572-1 Project/Site: PWS-Kaiser SDG: New Mexico

Qualifiers

GC VOA Qualifier **Qualifier Description**

Surrogate recovery exceeds control limits, high biased. S1+ Indicates the analyte was analyzed for but not detected. U

GC Semi VOA

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier **Qualifier Description**

Sample was prepped or analyzed beyond the specified holding time

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery **CFL** Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DΙ Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE) LOQ

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TFO Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Xenco, Midland

Case Narrative

Client: Tetra Tech, Inc.

Job ID: 880-5572-1

Project/Site: PWS-Kaiser

SDG: New Mexico

Job ID: 880-5572-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative 880-5572-1

Receipt

The sample was received on 8/30/2021 2:38 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Job ID: 880-5572-2

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative 880-5572-2

Comments

No additional comments.

Receipt

The sample was received on 8/30/2021 2:38 PM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.6° C.

General Chemistry

Method SM 2540C: The following sample was run outside of holding time at client's request: MW-1 (880-5572-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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Eurofins Xenco, Midland 9/13/2021 (Rev. 1)

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 880-5572-1 Project/Site: PWS-Kaiser SDG: New Mexico

Client Sample ID: MW-1

Lab Sample ID: 880-5572-1 Date Collected: 08/27/21 13:35

Matrix: Water

Method: 8021B - Volatile Orga Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200		0.00200		mg/L	— <u> </u>		09/01/21 22:06	
Toluene	<0.00200	U	0.00200		mg/L			09/01/21 22:06	
Ethylbenzene	<0.00200	U	0.00200		mg/L			09/01/21 22:06	
m-Xylene & p-Xylene	<0.00400		0.00400		mg/L			09/01/21 22:06	
o-Xylene	<0.00200	U	0.00200		mg/L			09/01/21 22:06	
Xylenes, Total	<0.00400	U	0.00400		mg/L			09/01/21 22:06	
Total BTEX	<0.00400	U	0.00400		mg/L			09/01/21 22:06	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130					09/01/21 22:06	
1,4-Difluorobenzene (Surr)	106		70 - 130					09/01/21 22:06	
Gasoline Range Organics	<4.66	U	4.66		mg/L		09/03/21 16:21	09/04/21 23:09	
Method: 8015B NM - Diesel Ranalyte	•	ics (DRO) Qualifier	(GC) RL	MDL		D	Prepared	Analyzed	Dil Fa
	<4.66	U	4.66		mg/L		09/03/21 16:21	09/04/21 23:09	
(GRO)-C6-C10 Diesel Range Organics (Over	<4.66	11	4.66		mg/L		09/03/21 16:21	09/04/21 23:09	
C10-C28)	14.00	O	4.00		mg/L		03/03/21 10.21	03/04/21 23:03	
Oll Range Organics (Over C28-C36)	<4.66	U	4.66		mg/L		09/03/21 16:21	09/04/21 23:09	
Total TPH	<4.66	U	4.66		mg/L		09/03/21 16:21	09/04/21 23:09	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	109		70 - 130				09/03/21 16:21	09/04/21 23:09	
o-Terphenyl	115		70 - 130				09/03/21 16:21	09/04/21 23:09	
Method: 300.0 - Anions, Ion C	hromatogra	vhq							
Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	3570		25.0		mg/L			08/31/21 16:14	5
General Chemistry									
•	D 14	O!!#!	RL	MDI	I Imit	_ n	Duamanad	Analyzad	Dil Fa
Analyte	Result	Qualifier	KL	MDL	Unit	D	Prepared	Analyzed	ріі га

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 880-5572-1 Project/Site: PWS-Kaiser SDG: New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water Prep Type: Total/NA

			Perc	ent Surrogate Recov	ery (Acceptance
		BFB1	DFBZ1		
₋ab Sample ID	Client Sample ID	(70-130)	(70-130)		
80-5572-1	MW-1	131 S1+	106		
80-5572-1 MS	MW-1	113	121		
880-5572-1 MSD	MW-1	119	121		
CS 880-7266/61	Lab Control Sample	108	115		
CSD 880-7266/62	Lab Control Sample Dup	123	129		
1B 880-7266/66	Method Blank	75	104		
MB 880-7274/5-A	Method Blank	75	102		

BFB = 4-Bromofluorobenzene (Surr) DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Water Prep Type: Total/NA

		1CO1	OTPH1	Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-5572-1	MW-1	109	115	
890-1210-J-1-A MS	Matrix Spike	99	102	
890-1210-J-1-B MSD	Matrix Spike Duplicate	110	111	
LCS 880-7525/2-A	Lab Control Sample	127	126	
LCSD 880-7525/3-A	Lab Control Sample Dup	112	109	
MB 880-7525/1-A	Method Blank	115	123	

1CO = 1-Chlorooctane

Released to Imaging: 9/1/2023 2:55:43 PM

OTPH = o-Terphenyl

Client: Tetra Tech, Inc. Job ID: 880-5572-1 Project/Site: PWS-Kaiser SDG: New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-7266/66

Matrix: Water

Analysis Batch: 7266

Client Samp	le ID:	Meth	od Blank
	Prep	Type:	Total/NA

MD MD

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/L			09/01/21 21:40	1
Toluene	<0.00200	U	0.00200		mg/L			09/01/21 21:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/L			09/01/21 21:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			09/01/21 21:40	1
o-Xylene	<0.00200	U	0.00200		mg/L			09/01/21 21:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/L			09/01/21 21:40	1
Total BTEX	<0.00400	U	0.00400		mg/L			09/01/21 21:40	1

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 75 70 - 130 09/01/21 21:40 104 70 - 130 09/01/21 21:40 1,4-Difluorobenzene (Surr)

Lab Sample ID: LCS 880-7266/61 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 7266

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Benzene 0.100 0.09753 mg/L 98 70 - 130 Toluene 0.100 0.09995 100 mg/L 70 - 130 Ethylbenzene 0.100 0.1071 mg/L 107 70 - 130 m-Xylene & p-Xylene 0.200 0.2108 mg/L 105 70 - 130 0.100 0.1044 104 o-Xylene mg/L 70 - 130

LCS LCS Limits Surrogate %Recovery Qualifier 4-Bromofluorobenzene (Surr) 108 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 115

Lab Sample ID: LCSD 880-7266/62 Client Sample ID: Lab Control Sample Dup

Matrix: Water

Analysis Batch: 7266

	Spike	LCSD LCSD				%Rec.		RPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1139	mg/L	_	114	70 - 130	15	20
Toluene	0.100	0.1090	mg/L		109	70 - 130	9	20
Ethylbenzene	0.100	0.1173	mg/L		117	70 - 130	9	20
m-Xylene & p-Xylene	0.200	0.2317	mg/L		116	70 - 130	9	20
o-Xylene	0.100	0.1146	mg/L		115	70 - 130	9	20

	LCSD LC	SD	
Surrogate	%Recovery Qu	alifier L	.imits
4-Bromofluorobenzene (Surr)	123	7	0 - 130
1,4-Difluorobenzene (Surr)	129	7	'0 ₋ 130

Lab Sample ID: 880-5572-1 MS

Matrix: Water

Analysis Batch: 7266

Allalysis Dalcii. 1200										
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.100	0.1110		mg/L		111	70 - 130	

Eurofins Xenco, Midland

Client Sample ID: MW-1

Prep Type: Total/NA

Prep Type: Total/NA

Client: Tetra Tech, Inc. Project/Site: PWS-Kaiser

Job ID: 880-5572-1 SDG: New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-5572-1 MS

Matrix: Water

Surrogate

Analysis Batch: 7266

Client	Sam	ple II): M	W-1
Pr	ep Tv	/pe: T	Tota	I/NA

	Sample	Sample	Spike	IVIS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Toluene	<0.00200	U	0.100	0.1117		mg/L		111	70 - 130	
Ethylbenzene	<0.00200	U	0.100	0.1142		mg/L		114	70 - 130	
m-Xylene & p-Xylene	<0.00400	U	0.200	0.2283		mg/L		114	70 - 130	
o-Xylene	<0.00200	U	0.100	0.1115		mg/L		112	70 - 130	

MS MS Limits %Recovery Qualifier 70 - 130 113

121

Lab Sample ID: 880-5572-1 MSD Client Sample ID: MW-1 **Matrix: Water**

70 - 130

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Analysis Batch: 7266

Prep Type: Total/NA

Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier RPD Limit Analyte Added Result Qualifier D %Rec Limits Unit Benzene <0.00200 U 0.100 0.1118 112 70 - 130 25 mg/L 109 Toluene <0.00200 U 0.100 0.1097 mg/L 70 - 130 2 25 Ethylbenzene <0.00200 U 0.100 0.1121 mg/L 112 70 - 130 2 25 0.200 25 m-Xylene & p-Xylene <0.00400 U 0.2246 mg/L 112 70 - 130 2 o-Xylene <0.00200 U 0.100 0.1104 mg/L 110 70 - 130 25

MSD MSD Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 119 1,4-Difluorobenzene (Surr) 121 70 - 130

Lab Sample ID: MB 880-7274/5-A

Matrix: Water

Analysis Batch: 7266

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 7274

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/L		08/31/21 08:38	09/01/21 00:42	1
Toluene	<0.00200	U	0.00200		mg/L		08/31/21 08:38	09/01/21 00:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/L		08/31/21 08:38	09/01/21 00:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L		08/31/21 08:38	09/01/21 00:42	1
o-Xylene	<0.00200	U	0.00200		mg/L		08/31/21 08:38	09/01/21 00:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/L		08/31/21 08:38	09/01/21 00:42	1
Total BTEX	<0.00400	U	0.00400		mg/L		08/31/21 08:38	09/01/21 00:42	1

	MB MB				
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75	70 - 130	08/31/21 08:38	09/01/21 00:42	1
1,4-Difluorobenzene (Surr)	102	70 - 130	08/31/21 08:38	09/01/21 00:42	1

Eurofins Xenco, Midland

Client: Tetra Tech, Inc. Job ID: 880-5572-1 Project/Site: PWS-Kaiser SDG: New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-7525/1-A

Matrix: Water

Analysis Batch: 7537

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

75 - 125

111

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7525

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<4.69	U	4.69		mg/L		09/03/21 16:21	09/04/21 21:03	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<4.69	U	4.69		mg/L		09/03/21 16:21	09/04/21 21:03	1
C10-C28)									
OII Range Organics (Over C28-C36)	<4.69	U	4.69		mg/L		09/03/21 16:21	09/04/21 21:03	1
Total TPH	<4.69	U	4.69		mg/L		09/03/21 16:21	09/04/21 21:03	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	09/03/21 16:21	09/04/21 21:03	1
o-Terphenyl	123		70 - 130	09/03/21 16:21	09/04/21 21:03	1

Lab Sample ID: LCS 880-7525/2-A

Matrix: Water Analysis Batch: 7537								e: Total/NA Batch: 7525
-	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	93.8	93.19		mg/L		99	75 - 125	

103.9

104.2

mg/L

mg/L

93.8

(GRO)-C6-C10 Diesel Range Organics (Over

C10-C28)

LCS LCS %Recovery Qualifier Surrogate Limits 1-Chlorooctane 127 70 - 130 o-Terphenyl 126 70 - 130

Lab Sample ID: LCSD 880-7525/3-A

Diesel Range Organics (Over

Matrix: Water							Prep Ty	pe: Tot	al/NA
Analysis Batch: 7537							Prep	Batch:	7525
-	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	93.8	92.23		mg/L		98	75 - 125	1	20

93.8

C10-C28)

	LCSD L	CSD	
Surrogate	%Recovery Q	ualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenvl	109		70 - 130

Lab Sample ID: 890-1210-J-1-A MS

Matrix: Water

Analysis Batch: 7537

Clie	nt Sample ID: Matrix Spike
	Prep Type: Total/NA

75 - 125

Prep Batch: 7525

, ,	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<4.53	U	91.5	76.12		mg/L		83	75 - 125	
Diesel Range Organics (Over C10-C28)	<4.53	U	91.5	89.74		mg/L		98	75 ₋ 125	

Eurofins Xenco, Midland

Client: Tetra Tech, Inc. Project/Site: PWS-Kaiser

Job ID: 880-5572-1 SDG: New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

MB MB

Lab Sample ID: 890-1210-J-1-A MS **Matrix: Water**

Lab Sample ID: 890-1210-J-1-B MSD

Analysis Batch: 7537

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 7525

MS MS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 99 70 - 130 o-Terphenyl 102 70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 7525 **RPD**

Matrix: Water Analysis Batch: 7537 MSD MSD Sample Sample Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD

Gasoline Range Organics <4.53 U 91.5 85.40 mg/L 93 75 - 125 11 20 (GRO)-C6-C10 Diesel Range Organics (Over <4.53 U 91.5 99.28 mg/L 109 75 - 125 10 20

C10-C28)

MSD MSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 110 70 - 130 70 - 130 o-Terphenyl 111

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-7318/3 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 7318

Prep Type: Total/NA

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac <0.500 U 0.500 Chloride 08/31/21 15:24 mg/L

Lab Sample ID: LCS 880-7318/4

Matrix: Water

Analysis Batch: 7318

Spike LCS LCS %Rec. Analyte Added Result Qualifier %Rec Limits Unit 25.0 105 Chloride 26.14 mg/L 90 - 110

Lab Sample ID: LCSD 880-7318/5 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 7318

Spike LCSD LCSD %Rec. Added Analyte Result Qualifier Unit %Rec Limits RPD Limit Chloride 25.0 25.60 mg/L 102 90 - 110

Lab Sample ID: 880-5594-A-1 MS **Client Sample ID: Matrix Spike**

Matrix: Water

Analysis Batch: 7318

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 9.96 25.0 34.47 90 - 110 mg/L 98

Eurofins Xenco, Midland

Limit

Prep Type: Total/NA

RPD

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Client: Tetra Tech, Inc. Project/Site: PWS-Kaiser

Job ID: 880-5572-1

SDG: New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-5594-A-1 MSD

Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Matrix: Water

Analysis Batch: 7318

7 maryone Datem 1010	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	9.96		25.0	34.95		mg/L		100	90 - 110	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 880-7774/1 **Client Sample ID: Method Blank Prep Type: Total/NA**

Matrix: Water

Analysis Batch: 7774

MR MR

Analyte	Result Qua	alifier RL	MDL Unit	D Prepare	ed Analyzed	Dil Fac
Total Dissolved Solids	<25.0 U	25.0	mg/L		09/10/21 15:13	1

Lab Sample ID: LCS 880-7774/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 7774

		Spike	LCS	LCS				%Rec.	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Total Dissolved Solids	 	1000	990.0		mg/L		99	80 - 120	

Lab Sample ID: LCSD 880-7774/3 **Client Sample ID: Lab Control Sample Dup Matrix: Water** Prep Type: Total/NA

Analysis Batch: 7774

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	l Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Total Dissolved Solids	1000	980.0		mg/L		98	80 - 120	1	10

Lab Sample ID: 880-5572-1 DU

Matrix: Water

Analysis Batch: 7774

-	Sample	Sample	DU	DU					RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D		RPD	Limit
Total Dissolved Solids	9590	Н	 9590		mg/L			0	10

Eurofins Xenco, Midland

Client Sample ID: MW-1

Prep Type: Total/NA

QC Association Summary

Client: Tetra Tech, Inc.

Project/Site: PWS-Kaiser

Job ID: 880-5572-1

SDG: New Mexico

GC VOA

Analysis Batch: 7266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5572-1	MW-1	Total/NA	Water	8021B	
MB 880-7266/66	Method Blank	Total/NA	Water	8021B	
MB 880-7274/5-A	Method Blank	Total/NA	Water	8021B	7274
LCS 880-7266/61	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-7266/62	Lab Control Sample Dup	Total/NA	Water	8021B	
880-5572-1 MS	MW-1	Total/NA	Water	8021B	
880-5572-1 MSD	MW-1	Total/NA	Water	8021B	

Prep Batch: 7274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-7274/5-A	Method Blank	Total/NA	Water	5035	

GC Semi VOA

Prep Batch: 7525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batc
880-5572-1	MW-1	Total/NA	Water	8015NM Aq Prep
MB 880-7525/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep
LCS 880-7525/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep
LCSD 880-7525/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep
890-1210-J-1-A MS	Matrix Spike	Total/NA	Water	8015NM Aq Prep
890-1210-J-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015NM Aq Prep

Analysis Batch: 7537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5572-1	MW-1	Total/NA	Water	8015B NM	7525
MB 880-7525/1-A	Method Blank	Total/NA	Water	8015B NM	7525
LCS 880-7525/2-A	Lab Control Sample	Total/NA	Water	8015B NM	7525
LCSD 880-7525/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	7525
890-1210-J-1-A MS	Matrix Spike	Total/NA	Water	8015B NM	7525
890-1210-J-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8015B NM	7525

HPLC/IC

Analysis Batch: 7318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-5572-1	MW-1	Total/NA	Water	300.0	
MB 880-7318/3	Method Blank	Total/NA	Water	300.0	
LCS 880-7318/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 880-7318/5	Lab Control Sample Dup	Total/NA	Water	300.0	
880-5594-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
880-5594-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 7774

Released to Imaging: 9/1/2023 2:55:43 PM

Lab Sample ID 880-5572-1	Client Sample ID MW-1	Prep Type Total/NA	Matrix Water	Method SM 2540C	Prep Batch
MB 880-7774/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 880-7774/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 880-7774/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
880-5572-1 DU	MW-1	Total/NA	Water	SM 2540C	

Eurofins Xenco, Midland

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Lab Chronicle

Client: Tetra Tech, Inc.

Job ID: 880-5572-1

Project/Site: PWS-Kaiser

SDG: New Mexico

Client Sample ID: MW-1

Lab Sample ID: 880-5572-1

Matrix: Water

Date Collected: 08/27/21 13:35 Date Received: 08/30/21 14:38

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	7266	09/01/21 22:06	MR	XEN MID
Total/NA	Prep	8015NM Aq Prep			32.2 mL	3 mL	7525	09/03/21 16:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7537	09/04/21 23:09	AJ	XEN MID
Total/NA	Analysis	300.0		50			7318	08/31/21 16:14	СН	XEN MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	7774	09/10/21 15:13	SC	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Tetra Tech, Inc. Job ID: 880-5572-1 Project/Site: PWS-Kaiser SDG: New Mexico

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Prog	ıram 💮 💮 💮 💮 💮 💮 💮 💮 💮 💮 🤄 🤄 🤄 💮 🤄 🤄 💮 💮 💮 🤄 💮 💮 💮 💮 💮 💮 💮 💮 💮 💮 💮 💮 💮	Identification Number	Expiration Date
Texas	NEL	AP	T104704400-20-21	06-30-22
The following analyte	s are included in this report,	but the laboratory is r	not certified by the governing authority.	This list may include analytes for wh
the agency does not	•	,,	g aansy.	This list may include analytes for m
the agency does not of Analysis Method	•	Matrix	Analyte	The letting include analytes for wi
0 ,	offer certification.	· ·	, , ,	

Method Summary

Client: Tetra Tech, Inc. Project/Site: PWS-Kaiser Job ID: 880-5572-1 SDG: New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
SM 2540C	Solids, Total Dissolved (TDS)	SM	XEN MID
5030B	Purge and Trap	SW846	XEN MID
8015NM Aq Prep	Microextraction	SW846	XEN MID

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Midland

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Sample Summary

Client: Tetra Tech, Inc. Project/Site: PWS-Kaiser Job ID: 880-5572-1

SDG: New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-5572-1	MW-1	Water	08/27/21	08/30/21
			13:35	14:38

Received by OCD: 8/28/2023 2:02:22 PM

Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 91 Midland, TX (432) 704-5440, San Antonio, TX (210 EL Paso TX (915) 585-3443, Lubbock, TX (806) 7 Hobbs NM (575) 392-7550 Carlsbad, NM (575)



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Project Manager	CI	gir	60	129/2	.S	Bill to (if	different	t)									Work Order Comme				nments			
Company Name	Ter	1/4 7	teci	4		Compan	y Name				***************************************		***************************************			Prog	ram	UST/P9		PRP.			RC 🗌	Superfund
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City State ZIP	MI	dan	d,	TX 75		City Stat							***************************************			Repo	orting	Level II	L	evel III [] PS	T/UST 📗 T	RRP 🗍	Level IV
Phone	432	-270-	85	4 /	Email	Clai	r.	ron	24	les	Q.	17/1	2 th	ch-	264	1	rerables				ADaPT		her·	
Project Name	AL	U5 7	Kais	ser-		Around				-											T			
Project Number				02230	Routine	Rush)	Pres. Code	itc	14.0	L		AI	VALYSIS	KEQUI	251	T				$\overline{}$		vative Co	
Project Location	Ne	wM	LYTT		Due Date	T		Code	110	IT C					\dashv	+	+-	 				None NO		Water H₂O
Sampler's Name	RIL	40-	Smi	76	TAT starts the	day receiv	ed by	1													1	Cool Cool		OH Me
PO#					the lab, if rec								İ	1								HCL.HC H₂SO₄H₂		IO₃HN OH Na
SAMPLE RECEIPT		Temp Bl	ank.	Yes No	Wet Ice	(Yes)	No	ters	Z	Ì	,,										į į	H ₃ PO ₄ HP	IVG	On iva
Samples Received Inta	ict:	(Yes) N	10_	Thermomete	er ID	I	R-8	Parameters	80/5M		1										1	NaHSO 4 NA	RIS	ĺ
Cooler Custody Seals.				Correction F	actor	+0	5] <u>e</u>	6				1									Na ₂ S ₂ O ₃ Na		
Sample Custody Seals.		Yes No	(N/A)	Temperature		5			180	\ \	3											Zn Acetate+		n
Total Containers.				Corrected Te	emperature [,]	5	.Ų		7	1	5			-	1	-	-				1	NaOH+Asco	bic Acid	SAPC
Sample Identi	fication		Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	TPH	Brex	Chlorid											Sampl	e Comm	ients
MW-1			W	3-27-21	1335		0	6	V	V	1											For a	uest	ious
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Total 200.7 / 6010 Circle Method(s) a		200.8 / 60 tal(s) tal		8F	CRA 13PP	M Texa	as 11	Al Sb	As B	a Be	B Cd	Ca C	r Co C	u Fe F	b Mg	Mn I	Mo Ni							
						PLP 6010								~					Hg 1	631/2	245 1 /	7470 / 74	71	
Por services Editionis Merico Wil	in the figure .	only for the co	ost or same	ies and shall not i	assume anv respo	nsibility for a	ny inssas /	or gynano	ac incur	o, its affiliates and subcontractors. It assigns standard terms and conditions red by the client if such losses are due to circumstances beyond the control enco, but not analyzed. These terms will be enforced unless previously negotiated.														
Relinquished by					y· (Signature					Time		Υ	inquish				T		ved h	v. (Siai	nature))	Date/T	ime
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Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 880-5572-1

SDG Number: New Mexico

Login Number: 5572 List Source: Eurofins Xenco, Midland

List Number: 1 Creator: Teel, Brianna

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

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<6mm (1/4").

Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-1501-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Kaiser SWD

For:

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Clair Gonzales

MRAMER

Authorized for release by: 11/8/2021 11:57:43 AM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

Links

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env
Released to Imaging: 9/1/2023 2:55:43 PM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-1501-1 SDG: Lea County NM

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Definitions/Glossary

Job ID: 890-1501-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Qualifiers

GC VOA Qualifier

Qualifier Description F1 MS and/or MSD recovery exceeds control limits. F2 MS/MSD RPD exceeds control limits S1-Surrogate recovery exceeds control limits, low biased.

S1+ Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description** F1 MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery **CFL** Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) Limit of Detection (DoD/DOE) LOD LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA Minimum Detectable Concentration (Radiochemistry) MDC

Method Quantitation Limit

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number

NC Not Calculated

MQL

TFO

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL **Practical Quantitation Limit**

Presumptive **PRES** QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Xenco, Carlsbad

Case Narrative

Client: Tetra Tech, Inc.

Job ID: 890-1501-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Job ID: 890-1501-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1501-1

Receipt

The samples were received on 10/29/2021 12:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: DS-1 (2) (890-1501-1) and DS-2 (3) (890-1501-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-11233 and analytical batch 880-11381 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Matrix: Solid

Lab Sample ID: 890-1501-1

Client: Tetra Tech, Inc. Job ID: 890-1501-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: DS-1 (2)

Date Collected: 10/25/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/01/21 10:32	11/01/21 22:08	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/01/21 10:32	11/01/21 22:08	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/01/21 10:32	11/01/21 22:08	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/01/21 10:32	11/01/21 22:08	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/01/21 10:32	11/01/21 22:08	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/01/21 10:32	11/01/21 22:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130				11/01/21 10:32	11/01/21 22:08	1
1,4-Difluorobenzene (Surr)	200	S1+	70 - 130				11/01/21 10:32	11/01/21 22:08	1
· Method: Total BTEX - Total BTE)	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			11/03/21 12:38	1
Method: 8015 NM - Diesel Range			RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range		Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/03/21 08:46	Dil Fac
Method: 8015 NM - Diesel Range Analyte	Result <49.9 ge Organics (Di	Qualifier U RO) (GC)	49.9		mg/Kg			11/03/21 08:46	1
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Result <49.9 ge Organics (Di Result	Qualifier U RO) (GC) Qualifier		MDL MDL	mg/Kg	<u>D</u>	Prepared Prepared		1
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <49.9 ge Organics (Di	Qualifier U RO) (GC) Qualifier	49.9		mg/Kg			11/03/21 08:46	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 ge Organics (Di Result	Qualifier U RO) (GC) Qualifier U	49.9		mg/Kg		Prepared	11/03/21 08:46 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9 ge Organics (Di Result <49.9	Qualifier U RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 11/01/21 14:48	11/03/21 08:46 Analyzed 11/02/21 22:52	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/01/21 14:48 11/01/21 14:48	11/03/21 08:46 Analyzed 11/02/21 22:52 11/02/21 22:52	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/01/21 14:48 11/01/21 14:48 11/01/21 14:48	Analyzed 11/02/21 22:52 11/02/21 22:52	Dil Face 1 1 1 Dil Face
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/01/21 14:48 11/01/21 14:48 11/01/21 14:48 Prepared	Analyzed 11/02/21 22:52 11/02/21 22:52 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U RO) (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/01/21 14:48 11/01/21 14:48 11/01/21 14:48 Prepared 11/01/21 14:48	11/03/21 08:46 Analyzed 11/02/21 22:52 11/02/21 22:52 Analyzed 11/02/21 22:52	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.9	Qualifier U RO) (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 11/01/21 14:48 11/01/21 14:48 11/01/21 14:48 Prepared 11/01/21 14:48	11/03/21 08:46 Analyzed 11/02/21 22:52 11/02/21 22:52 Analyzed 11/02/21 22:52	

Client Sample ID: DS-2 (3) Date Collected: 10/25/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 10:32	11/01/21 22:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 10:32	11/01/21 22:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 10:32	11/01/21 22:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 10:32	11/01/21 22:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 10:32	11/01/21 22:36	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 10:32	11/01/21 22:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				11/01/21 10:32	11/01/21 22:36	1

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Lab Sample ID: 890-1501-2

Matrix: Solid

11/03/21 12:38

Client: Tetra Tech, Inc.

Job ID: 890-1501-1
Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: DS-2 (3) Lab Sample ID: 890-1501-2

Date Collected: 10/25/21 00:00 Matrix: Solid
Date Received: 10/29/21 12:45

Sample Depth: 3

Total BTEX

Method: 8021B - Volatile Organic	Compounds	GC) (Conti	nued)					
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	172	S1+	70 - 130			11/01/21 10:32	11/01/21 22:36	1
Method: Total BTEX - Total BTEX								
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac

Method: 8015 NM - Diesel Range O	rganics (DRO) (GC)						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1290	250	mg/Kg			11/03/21 08:46	1

0.00399

mg/Kg

<0.00399 U

Method: 8015B NM - Diesel Range Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<250	U	250		mg/Kg		11/01/21 14:48	11/02/21 23:14	5
Diesel Range Organics (Over C10-C28)	1290		250		mg/Kg		11/01/21 14:48	11/02/21 23:14	5
Oll Range Organics (Over C28-C36)	<250	U	250		mg/Kg		11/01/21 14:48	11/02/21 23:14	5

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89	70 _ 130	11/01/21 14:48	11/02/21 23:14	5
o-Terphenyl	94	70 - 130	11/01/21 14:48	11/02/21 23:14	5

Method: 300.0 - Anions, Ion Chrom	natography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7010	100	mg/Kg			11/07/21 02:39	20

Client Sample ID: DS-3 (2)

Date Collected: 10/25/21 00:00

Lab Sample ID: 890-1501-3

Matrix: Solid

Date Received: 10/29/21 12:45

Sample Depth: 2

Total TPH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 10:32	11/01/21 23:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 10:32	11/01/21 23:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/01/21 10:32	11/01/21 23:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 10:32	11/01/21 23:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 10:32	11/01/21 23:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 10:32	11/01/21 23:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				11/01/21 10:32	11/01/21 23:03	1
1,4-Difluorobenzene (Surr)	75		70 - 130				11/01/21 10:32	11/01/21 23:03	1
Method: Total BTEX - Total B1	TEX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/03/21 12:38	1
- Method: 8015 NM - Diesel Rar	nge Organics (DR	O) (GC)							
		Qualifier	RL		Unit		Prepared	Analyzed	Dil Fac

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11/03/21 08:46

250

mg/Kg

Matrix: Solid

Lab Sample ID: 890-1501-3

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1501-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: DS-3 (2)

Date Collected: 10/25/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 2

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<250	U	250		mg/Kg		11/01/21 14:48	11/02/21 23:37	5
Diesel Range Organics (Over C10-C28)	1980		250		mg/Kg		11/01/21 14:48	11/02/21 23:37	5
OII Range Organics (Over C28-C36)	<250	U	250		mg/Kg		11/01/21 14:48	11/02/21 23:37	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				11/01/21 14:48	11/02/21 23:37	- 5
o-Terphenyl	109		70 - 130				11/01/21 14:48	11/02/21 23:37	5
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7820		49.5		mg/Kg			11/07/21 02:47	10

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-1501-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Red
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-7749-A-1-C MS	Matrix Spike	86	71	
880-7749-A-1-E MSD	Matrix Spike Duplicate	87	115	
890-1501-1	DS-1 (2)	75	200 S1+	
890-1501-2	DS-2 (3)	86	172 S1+	
890-1501-3	DS-3 (2)	103	75	
LCS 880-11059/1-A	Lab Control Sample	91	100	
LCSD 880-11059/2-A	Lab Control Sample Dup	85	105	
MB 880-11059/5-A	Method Blank	63 S1-	133 S1+	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

		1001	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-1495-A-1-H MS	Matrix Spike	99	99
890-1495-A-1-I MSD	Matrix Spike Duplicate	102	115
890-1501-1	DS-1 (2)	104	109
890-1501-2	DS-2 (3)	89	94
890-1501-3	DS-3 (2)	101	109
LCS 880-11158/2-A	Lab Control Sample	101	104
LCSD 880-11158/3-A	Lab Control Sample Dup	90	95
MB 880-11158/1-A	Method Blank	103	114

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Tetra Tech, Inc. Job ID: 890-1501-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-11059/5-A

Matrix: Solid Analysis Batch: 11027 Prep Type: Total/NA

Prep Batch: 11059

Client Sample ID: Method Blank

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 10:32	11/01/21 13:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 10:32	11/01/21 13:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 10:32	11/01/21 13:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 10:32	11/01/21 13:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 10:32	11/01/21 13:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 10:32	11/01/21 13:19	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	63	S1-	70 - 130	11/01/21 10:32	11/01/21 13:19	1
1,4-Difluorobenzene (Surr)	133	S1+	70 - 130	11/01/21 10:32	11/01/21 13:19	1

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 880-11059/1-A

Matrix: Solid

Analysis Batch: 11027

Prep Type: Total/NA Prep Batch: 11059

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09493		mg/Kg		95	70 - 130	
Toluene	0.100	0.09238		mg/Kg		92	70 - 130	
Ethylbenzene	0.100	0.08996		mg/Kg		90	70 - 130	
m-Xylene & p-Xylene	0.200	0.1834		mg/Kg		92	70 - 130	
o-Xylene	0.100	0.09109		mg/Kg		91	70 - 130	
I and the second								

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	91	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: LCSD 880-11059/2-A

Matrix: Solid

Analysis Batch: 11027

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11059

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08648		mg/Kg		86	70 - 130	9	35
Toluene	0.100	0.08374		mg/Kg		84	70 - 130	10	35
Ethylbenzene	0.100	0.07988		mg/Kg		80	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.1623		mg/Kg		81	70 - 130	12	35
o-Xylene	0.100	0.08108		mg/Kg		81	70 - 130	12	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
1 4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-7749-A-1-C MS

Matrix: Solid

Analysis Batch: 11027

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 11059

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U F2 F1	0.101	0.03475	F1	mg/Kg	_	34	70 - 130	
Toluene	<0.00202	U F2 F1	0.101	0.006187	F1	mg/Kg		6	70 - 130	

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Prep Batch: 11059

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1501-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-7749-A-1-C MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 11027

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00202	U F2 F1	0.101	0.06604	F1	mg/Kg		66	70 - 130	
m-Xylene & p-Xylene	<0.00403	U F2 F1	0.202	0.1311	F1	mg/Kg		65	70 - 130	
o-Xylene	<0.00202	U F2 F1	0.101	0.06867	F1	mg/Kg		68	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	86	70 - 130
1,4-Difluorobenzene (Surr)	71	70 - 130

Lab Sample ID: 880-7749-A-1-E MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 11027									Prep	Batch:	11059
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U F2 F1	0.0996	0.05940	F2 F1	mg/Kg		59	70 - 130	52	35
Toluene	<0.00202	U F2 F1	0.0996	0.04594	F2 F1	mg/Kg		46	70 - 130	153	35
Ethylbenzene	<0.00202	U F2 F1	0.0996	0.03657	F2 F1	mg/Kg		37	70 - 130	57	35
m-Xylene & p-Xylene	<0.00403	U F2 F1	0.199	0.07219	F2 F1	mg/Kg		36	70 - 130	58	35
o-Xylene	<0.00202	U F2 F1	0.0996	0.04080	F2 F1	mg/Kg		41	70 - 130	51	35

MSD MSD

Surrogate	%Recovery Q	Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-11158/1-A Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 11193

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/01/21 14:48	11/02/21 20:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/01/21 14:48	11/02/21 20:41	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/01/21 14:48	11/02/21 20:41	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	11/01/21 14:48	11/02/21 20:41	1
o-Terphenyl	114		70 - 130	11/01/21 14:48	11/02/21 20:41	1

Lab Sample ID: LCS 880-11158/2-A

Matrix: Solid

Analysis Batch: 11193							-	Batch: 11158
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	999.0		mg/Kg		100	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	991.9		mg/Kg		99	70 - 130	
C10-C28)								

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Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11158

Job ID: 890-1501-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

LCS LCS

%Recovery Qualifier

Lab Sample ID: LCS 880-11158/2-A

Limits

Matrix: Solid

Analysis Batch: 11193

Surrogate

C10-C28)

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11158

1-Chlorooctane 101 70 - 130 o-Terphenyl 104 70 - 130

Lab Sample ID: LCSD 880-11158/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 11193 Prep Batch: 11158

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 897.3 90 70 - 13011 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1021 102 mg/Kg 70 - 1303 20

LCSD LCSD Surrogate %Recovery Qualifier Limits 90 70 - 130 1-Chlorooctane

95 70 - 130 o-Terphenyl

Lab Sample ID: 890-1495-A-1-H MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 11193** Prep Batch: 11158

Sample Sample MS MS Spike Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 997 1026 mg/Kg 103 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 997 964.5 mg/Kg 95 70 - 130

C10-C28)

%Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 99 o-Terphenyl 99 70 - 130

MS MS

Lab Sample ID: 890-1495-A-1-I MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 11193** Prep Batch: 11158

Sample Sample MSD MSD RPD Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit U 1000 1156 Gasoline Range Organics <49.9 mg/Kg 116 70 - 130 12 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 1000 975.7 mg/Kg 95 70 - 130 20

C10-C28)

MSD MSD Qualifier Surrogate %Recovery Limits 1-Chlorooctane 102 70 - 130 115 70 - 130 o-Terphenyl

QC Sample Results

Job ID: 890-1501-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-11233/1-A

Matrix: Solid

Analysis Batch: 11381

Client Sample ID: Method Blank **Prep Type: Soluble**

мв мв

Dil Fac MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 11/07/21 01:48

Lab Sample ID: LCS 880-11233/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 11381

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 229.5 mg/Kg 92 90 - 110

Lab Sample ID: LCSD 880-11233/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 11381

LCSD LCSD %Rec. RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 233.0 mg/Kg 90 - 110

Lab Sample ID: 880-7551-A-2-E MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 11381

MS MS Sample Sample Spike %Rec. Analyte Result Qualifier Added Result Qualifier %Rec Unit Limits 12500 Chloride 17400 35790 F1 148 90 - 110 mg/Kg

Lab Sample ID: 880-7551-A-2-F MSD

Matrix: Solid

Analysis Batch: 11381

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 17400 F1 12500 35360 F1 mg/Kg 144 90 - 110 20

Eurofins Xenco, Carlsbad

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

QC Association Summary

Client: Tetra Tech, Inc.

Job ID: 890-1501-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC VOA

Analysis Batch: 11027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1501-1	DS-1 (2)	Total/NA	Solid	8021B	11059
890-1501-2	DS-2 (3)	Total/NA	Solid	8021B	11059
890-1501-3	DS-3 (2)	Total/NA	Solid	8021B	11059
MB 880-11059/5-A	Method Blank	Total/NA	Solid	8021B	11059
LCS 880-11059/1-A	Lab Control Sample	Total/NA	Solid	8021B	11059
LCSD 880-11059/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	11059
880-7749-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	11059
880-7749-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	11059

Prep Batch: 11059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-1501-1	DS-1 (2)	Total/NA	Solid	5035	
890-1501-2	DS-2 (3)	Total/NA	Solid	5035	
890-1501-3	DS-3 (2)	Total/NA	Solid	5035	
MB 880-11059/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11059/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-11059/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-7749-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-7749-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 11149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1501-1	DS-1 (2)	Total/NA	Solid	Total BTEX	
890-1501-2	DS-2 (3)	Total/NA	Solid	Total BTEX	
890-1501-3	DS-3 (2)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 11158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1501-1	DS-1 (2)	Total/NA	Solid	8015NM Prep	
890-1501-2	DS-2 (3)	Total/NA	Solid	8015NM Prep	
890-1501-3	DS-3 (2)	Total/NA	Solid	8015NM Prep	
MB 880-11158/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-11158/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-11158/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1495-A-1-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1495-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 11193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1501-1	DS-1 (2)	Total/NA	Solid	8015B NM	11158
890-1501-2	DS-2 (3)	Total/NA	Solid	8015B NM	11158
890-1501-3	DS-3 (2)	Total/NA	Solid	8015B NM	11158
MB 880-11158/1-A	Method Blank	Total/NA	Solid	8015B NM	11158
LCS 880-11158/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	11158
LCSD 880-11158/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	11158
890-1495-A-1-H MS	Matrix Spike	Total/NA	Solid	8015B NM	11158
890-1495-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	11158

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Page 13 of 22

QC Association Summary

Client: Tetra Tech, Inc.

Job ID: 890-1501-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC Semi VOA

Analysis Batch: 11344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1501-1	DS-1 (2)	Total/NA	Solid	8015 NM	
890-1501-2	DS-2 (3)	Total/NA	Solid	8015 NM	
890-1501-3	DS-3 (2)	Total/NA	Solid	8015 NM	
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Leach Batch: 11233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1501-1	DS-1 (2)	Soluble	Solid	DI Leach	
890-1501-2	DS-2 (3)	Soluble	Solid	DI Leach	
890-1501-3	DS-3 (2)	Soluble	Solid	DI Leach	
MB 880-11233/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-11233/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-11233/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-7551-A-2-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-7551-A-2-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 11381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1501-1	DS-1 (2)	Soluble	Solid	300.0	11233
890-1501-2	DS-2 (3)	Soluble	Solid	300.0	11233
890-1501-3	DS-3 (2)	Soluble	Solid	300.0	11233
MB 880-11233/1-A	Method Blank	Soluble	Solid	300.0	11233
LCS 880-11233/2-A	Lab Control Sample	Soluble	Solid	300.0	11233
LCSD 880-11233/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11233
880-7551-A-2-E MS	Matrix Spike	Soluble	Solid	300.0	11233
880-7551-A-2-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	11233

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Client: Tetra Tech, Inc. Job ID: 890-1501-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: DS-1 (2)

Date Received: 10/29/21 12:45

Lab Sample ID: 890-1501-1 Date Collected: 10/25/21 00:00

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	11059	11/01/21 10:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11027	11/01/21 22:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11344	11/03/21 08:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11158	11/01/21 14:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11193	11/02/21 22:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11233	11/02/21 12:00	CH	XEN MID
Soluble	Analysis	300.0		1			11381	11/07/21 02:32	CH	XEN MID

Client Sample ID: DS-2 (3) Lab Sample ID: 890-1501-2 Matrix: Solid

Date Collected: 10/25/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11059	11/01/21 10:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11027	11/01/21 22:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11344	11/03/21 08:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11158	11/01/21 14:48	DM	XEN MID
Total/NA	Analysis	8015B NM		5			11193	11/02/21 23:14	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11233	11/02/21 12:00	CH	XEN MID
Soluble	Analysis	300.0		20			11381	11/07/21 02:39	CH	XEN MID

Client Sample ID: DS-3 (2) Lab Sample ID: 890-1501-3 Date Collected: 10/25/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11059	11/01/21 10:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11027	11/01/21 23:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/03/21 12:38	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11344	11/03/21 08:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11158	11/01/21 14:48	DM	XEN MID
Total/NA	Analysis	8015B NM		5			11193	11/02/21 23:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11233	11/02/21 12:00	CH	XEN MID
Soluble	Analysis	300.0		10			11381	11/07/21 02:47	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Job ID: 890-1501-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority		rogram	Identification Number	Expiration Date				
Texas	N	ELAP	T104704400-21-22					
The following analytes the agency does not of		ut the laboratory is not certifi	ied by the governing authority. This list ma	ay include analytes for wh				
Analysis Method	Prep Method	Matrix	Analyte					
0045 1114		Solid	Total TPH					
8015 NM		Juliu	IOIAI IPH					

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Method Summary

Client: Tetra Tech, Inc. Job ID: 890-1501-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-1501-1

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1501-1	DS-1 (2)	Solid	10/25/21 00:00	10/29/21 12:45	2
890-1501-2	DS-2 (3)	Solid	10/25/21 00:00	10/29/21 12:45	3
890-1501-3	DS-3 (2)	Solid	10/25/21 00:00	10/29/21 12:45	2

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oject Name:	Kaiser SWD											1		1		GIF	cie	or	2b	eci	Т	IVIE	LINC		No.										
roject Location: ounty, state)	Lea County, New Mexico	Project #:			212C	-ME	D-02	230																ŧ											
voice to:	Dusty McInturff - Permian Water Solutions												Ó	Q	ᅙ	Hg								ched lis	3										
celving Laboratory:	Eurofins Xenco	Sampler Signa	ature:		Ezeq	uiel	Mor	eno					0		Pb Se h	Pb Se								Pe atta	3										
mments:												BTEX 8260B	35)		ΰρ	As Ba Cd Cr Pb Se Hg			24	82/00/625				TDS istrv (s	7 (10)										
		SAMP	LING	MA	ATRIX		PRESE	RVAT		RS.	₂	BTEX	Ext to C	OND I	rotal Metals Ag As Ba Cd Cr Pb Se Hg	Ng As B	latiles		8260B / 624	VOI. 82 608		s)		Sulfate TDS Water Chemistry (see attached list)	Anion/Cation Balance										
LAB#	SAMPLE IDENTIFICATION	YEAR: 2020		-		Τ				AINE	ED (Y	021B	1544	8270C	etals A	etals /	Semi Vo		Vol. 8	3082 /		spesto	6	Wate	ation										
LAB USE)		DATE	TIME	WATER	SOIL	걸	HNO3	None None		# CONTAINERS	FIL TERED (Y/N)	BTEX 8021B	TPH TX1005 (Ext to C35)	PAH 82	Total Me	TCLP Metals	TCLP Semi	RCI	GC/MS Vol.	GC/MS Semi. Vol. 6 PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride General V	Anion/C			Hold							
	DS-1 (2')	10/25/2021			X		$\overline{}$	x				Х	×									T = 1	х		\square			I							
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Page 20 of 22

Eurofins Xenco, Carlsbad

1089 N Canal St Carlsbad NM 88220

Chain of Custody Record



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Environment Testing America

11/8/2021

Phone. 575-988-3199 Fax 575-988-3199																			-	THE COLUMN
Client Information (Sub Contract Lab)	Sampler			B	PM amer	Jess	sica						Carrie	r Track	ing No(s	:)			COC No ⁻ 890-488 1	
Client Contact: Shipping/Receiving	Phone:			E-M	lail		er@e		finset	com				of Origi				F	Page: Page 1 of 1	
Company Eurofins Xenco			·	P	Acc	redita	tions R	Requir	red (Se	ee not			1110	MICAL					Job#	
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Midland	TAT Requested (da	ıys);														The second		B NaOH N		
State Zip TX 79701					, and a		H H										À	100 confinedore	D Nitric Acid P E NaHSO4 Q	P Na2O4S Q Na2SO3
Phone: 432-704-5440(Tel)	PO# ⁻) Full												4	G Amchlor S	R Na2S2O3 S H2SO4 F TSP Dodecahydrate
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Project Name Kaiser SWD	Project #: 88000039			***************************************	ACH C											ainers	K EDTA W	N pH 4-5 Z other (specify)		
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Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oli, BT=Tissue, A=Ai	ै Field Filten	Perform MS	8016MOD_NM/8016NM_S_Prep (MOD) Full TPH	8021B/5035FP_Calc	300_ORGFM_28D/DI_LEACH Chloride	Total_BTEX_GCV	8016MOD_Calo							Total Numb	Special Inet	ructions/Note
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DS-1 (2) (890-1501-1)	10/25/21	Mountain	10° 20° Egyptime 'n o	Solid	Ħ		Х	х	х	х	х			·				1		
DS-2 (3) (890-1501-2)	10/25/21	Mountain		Solid	\prod		x	x	х	х	х	\dagger	$\dagger \dagger$			11		1		
DS-3 (2) (890-1501-3)	10/25/21	Mountain		Solid			х	х	х	х	х							ì		
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Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC pmaintain accreditation in the State of Origin listed above for analysis/tests/matrix tattention immediately If all requested accreditations are current to date return the	neing analyzed the st	amnies must he	a chinnad hack	r to the Eurofi	ne Van	100 1	C loho	ontrai ratory	ict labo y or oth	oratorio her ins	ies. Thi struction	is sampl	e shipm e provid	nentist ded Ar	orwarde ly chang	ed under o	chain-c creditat	of-cu	ustody If the laboratory status should be brough	or does not currently that to Eurofins Xenco LLC
Possible Hazard Identification			***************************************	***************************************		Sam	_	-				ay be	asses	sed if	samp	les are	reta	ine	ed longer than 1 m	onth)
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Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-1501-1 SDG Number: Lea County NM

List Source: Eurofins Xenco, Carlsbad

Login Number: 1501 List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-1501-1

SDG Number: Lea County NM

List Source: Eurofins Xenco, Midland

List Creation: 11/01/21 08:46 AM

List Number: 2 Creator: Kramer, Jessica

Login Number: 1501

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6/2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Eurofins Xenco, Carlsbad

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Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-1770-1

Laboratory Sample Delivery Group: Lea County New Mexico Client Project/Site: Kaiser SWD

For:

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Clair Gonzales

MAMER

Authorized for release by: 1/4/2022 2:38:20 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Tetra Tech, Inc.

Laboratory Job ID: 890-1770-1

Project/Site: Kaiser SWD

SDG: Lea County New Mexico

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Definitions/Glossary

Job ID: 890-1770-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County New Mexico

Qualifiers

GC VOA Qualifier

F1 MS and/or MSD recovery exceeds control limits. F2 MS/MSD RPD exceeds control limits S1-Surrogate recovery exceeds control limits, low biased. S1+ Surrogate recovery exceeds control limits, high biased.

Qualifier Description

GC Semi VOA

Qualifier **Qualifier Description** F1 MS and/or MSD recovery exceeds control limits. S1+ Surrogate recovery exceeds control limits, high biased. U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier Qualifier Description F1 MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Indicates the analyte was analyzed for but not detected.

Listed under the "D" column to designate that the result is reported on a dry weight basis

Percent Recovery %R CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

Duplicate Error Ratio (normalized absolute difference) DER

Dil Fac Dilution Factor

Detection Limit (DoD/DOE) DL

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE) LOQ

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

Case Narrative

Client: Tetra Tech, Inc.

Job ID: 890-1770-1

Project/Site: Kaiser SWD

SDG: Lea County New Mexico

Job ID: 890-1770-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1770-1

Receipt

The samples were received on 12/28/2021 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-15736 and analytical batch 880-15788 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW-3 (890-1770-2), SW-10 (890-1770-7) and (880-9746-A-1-D). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-15746 and analytical batch 880-15825 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-15803 and analytical batch 880-15920 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Matrix: Solid

Lab Sample ID: 890-1770-1

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-1770-1

Project/Site: Kaiser SWD

SDG: Lea County New Mexico

Client Sample ID: SW-1

Date Collected: 12/23/21 00:00 Date Received: 12/28/21 10:30

Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		12/29/21 14:29	12/30/21 20:30	
Toluene	<0.00200	U	0.00200		mg/Kg		12/29/21 14:29	12/30/21 20:30	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/29/21 14:29	12/30/21 20:30	•
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/29/21 14:29	12/30/21 20:30	
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/29/21 14:29	12/30/21 20:30	•
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/29/21 14:29	12/30/21 20:30	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				12/29/21 14:29	12/30/21 20:30	
1,4-Difluorobenzene (Surr)	79		70 - 130				12/29/21 14:29	12/30/21 20:30	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/04/22 15:22	-
Method: 8015 NM - Diesel Range			RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Method: 8015 NM - Diesel Range									
· ^{``} -		Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/03/22 14:33	
Method: 8015 NM - Diesel Range Analyte Total TPH	Result <49.9	Qualifier U		MDL		<u>D</u>	Prepared		
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <49.9 ge Organics (Di	Qualifier U RO) (GC)	49.9		mg/Kg	=	· ·	01/03/22 14:33	
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Result <49.9 ge Organics (Di Result	Qualifier U RO) (GC) Qualifier	49.9	MDL	mg/Kg	<u>D</u>	Prepared	01/03/22 14:33 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	Result <49.9 ge Organics (Di	Qualifier U RO) (GC) Qualifier	49.9		mg/Kg	=	· ·	01/03/22 14:33	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Result <49.9 ge Organics (Di Result	Qualifier U RO) (GC) Qualifier U F1	49.9		mg/Kg	=	Prepared	01/03/22 14:33 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9 ge Organics (Di Result <49.9	Qualifier U RO) (GC) Qualifier U F1	49.9 RL 49.9		mg/Kg Unit mg/Kg	=	Prepared 12/29/21 15:34	01/03/22 14:33 Analyzed 12/31/21 21:44	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 ge Organics (Di Result <49.9	Qualifier U RO) (GC) Qualifier U F1 U F1	49.9 RL 49.9		mg/Kg Unit mg/Kg	=	Prepared 12/29/21 15:34	01/03/22 14:33 Analyzed 12/31/21 21:44	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U RO) (GC) Qualifier U F1 U F1	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 12/29/21 15:34 12/29/21 15:34	01/03/22 14:33 Analyzed 12/31/21 21:44 12/31/21 21:44	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U RO) (GC) Qualifier U F1 U F1	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 12/29/21 15:34 12/29/21 15:34 12/29/21 15:34	01/03/22 14:33 Analyzed 12/31/21 21:44 12/31/21 21:44 12/31/21 21:44	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9	Qualifier U RO) (GC) Qualifier U F1 U F1	49.9 RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 12/29/21 15:34 12/29/21 15:34 12/29/21 15:34 Prepared	01/03/22 14:33 Analyzed 12/31/21 21:44 12/31/21 21:44 12/31/21 21:44 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U RO) (GC) Qualifier U F1 U F1 U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 12/29/21 15:34 12/29/21 15:34 12/29/21 15:34 Prepared 12/29/21 15:34	01/03/22 14:33 Analyzed 12/31/21 21:44 12/31/21 21:44 Analyzed 12/31/21 21:44	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U RO) (GC) Qualifier U F1 U F1 U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg	=	Prepared 12/29/21 15:34 12/29/21 15:34 12/29/21 15:34 Prepared 12/29/21 15:34	01/03/22 14:33 Analyzed 12/31/21 21:44 12/31/21 21:44 Analyzed 12/31/21 21:44	Dil Fac

Client Sample ID: SW-3

Date Collected: 12/23/21 00:00 Date Received: 12/28/21 10:30

Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/29/21 14:29	12/30/21 20:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/29/21 14:29	12/30/21 20:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/29/21 14:29	12/30/21 20:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/29/21 14:29	12/30/21 20:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/29/21 14:29	12/30/21 20:50	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/29/21 14:29	12/30/21 20:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		S1+	70 - 130				12/29/21 14:29	12/30/21 20:50	1

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1770-2

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-1770-1

Project/Site: Kaiser SWD

SDG: Lea County New Mexico

Client Sample ID: SW-3 Lab Sample ID: 890-1770-2

Date Collected: 12/23/21 00:00 Matrix: Solid
Date Received: 12/28/21 10:30

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic	Compounds	(GC) (Conti	nued)						
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104		70 - 130				12/29/21 14:29	12/30/21 20:50	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/04/22 15:22	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/04/22 15:21	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/29/21 15:34	12/31/21 22:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/29/21 15:34	12/31/21 22:46	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/29/21 15:34	12/31/21 22:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				12/29/21 15:34	12/31/21 22:46	1
o-Terphenyl	116		70 - 130				12/29/21 15:34	12/31/21 22:46	1

Wethou: 300.0 - Amons, fon Chron	iatography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	341	4.95	mg/Kg			01/03/22 18:07	1

Client Sample ID: SW-6

Date Collected: 12/23/21 00:00

Matrix: Solid

Date Received: 12/28/21 10:30

Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/29/21 14:29	12/30/21 21:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/29/21 14:29	12/30/21 21:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/29/21 14:29	12/30/21 21:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/29/21 14:29	12/30/21 21:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/29/21 14:29	12/30/21 21:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/29/21 14:29	12/30/21 21:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				12/29/21 14:29	12/30/21 21:10	1
1,4-Difluorobenzene (Surr)	104		70 - 130				12/29/21 14:29	12/30/21 21:10	1
- Method: Total BTEX - Total B1	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/04/22 15:22	1
Method: 8015 NM - Diesel Rar	ige Organics (DR	O) (GC)							
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac

Eurofins Xenco, Carlsbad

01/04/22 15:21

49.9

mg/Kg

<49.9 U

Total TPH

3

5

7

10

12

13

14

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Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-1770-1 Project/Site: Kaiser SWD SDG: Lea County New Mexico

Client Sample ID: SW-6 Lab Sample ID: 890-1770-3

Date Collected: 12/23/21 00:00 Date Received: 12/28/21 10:30

Sample Depth: 0 - 4

Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/29/21 15:34	12/31/21 23:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/29/21 15:34	12/31/21 23:06	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/29/21 15:34	12/31/21 23:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				12/29/21 15:34	12/31/21 23:06	
o-Terphenyl	101		70 - 130				12/29/21 15:34	12/31/21 23:06	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4800		49.8		mg/Kg			01/03/22 17:31	10

Client Sample ID: SW-7 Lab Sample ID: 890-1770-4 Date Collected: 12/23/21 00:00 Matrix: Solid

Date Received: 12/28/21 10:30

Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/29/21 14:29	12/30/21 21:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/29/21 14:29	12/30/21 21:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/29/21 14:29	12/30/21 21:31	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/29/21 14:29	12/30/21 21:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/29/21 14:29	12/30/21 21:31	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/29/21 14:29	12/30/21 21:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				12/29/21 14:29	12/30/21 21:31	1
1,4-Difluorobenzene (Surr)	90		70 - 130				12/29/21 14:29	12/30/21 21:31	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/04/22 15:22	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/04/22 15:21	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		12/29/21 15:34	12/31/21 23:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/29/21 15:34	12/31/21 23:27	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/29/21 15:34	12/31/21 23:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				12/29/21 15:34	12/31/21 23:27	1
o-Terphenyl	108		70 - 130				12/29/21 15:34	12/31/21 23:27	1

Job ID: 890-1770-1

SDG: Lea County New Mexico

Client Sample ID: SW-7 Lab Sample ID: 890-1770-4

. Matrix: Solid

Date Received: 12/28/21 10:30 Sample Depth: 0 - 4

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Date Collected: 12/23/21 00:00

Method: 300.0 - Anions, Ion Chroma	tography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2400		50.0		mg/Kg			01/03/22 17:39	10

Client Sample ID: SW-8

Lab Sample ID: 890-1770-5

Date Collected: 12/23/21 00:00

Matrix: Solid

Date Collected: 12/23/21 00:00 Date Received: 12/28/21 10:30

Sample Depth: 0 - 4

Diesel Range Organics (Over

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/29/21 14:29	12/30/21 21:51	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/29/21 14:29	12/30/21 21:51	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/29/21 14:29	12/30/21 21:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/29/21 14:29	12/30/21 21:51	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/29/21 14:29	12/30/21 21:51	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/29/21 14:29	12/30/21 21:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130				12/29/21 14:29	12/30/21 21:51	1
1,4-Difluorobenzene (Surr)	89		70 - 130				12/29/21 14:29	12/30/21 21:51	1
., . =									
Method: Total BTEX - Total BTA	TEX Calculation	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: Total BTEX - Total B	TEX Calculation		RL 0.00402	MDL	Unit mg/Kg	D	Prepared	Analyzed 01/04/22 15:22	Dil Fac
Method: Total BTEX - Total BTA Analyte Total BTEX	TEX Calculation Result <0.00402	U		MDL		<u>D</u>	Prepared		Dil Fac
Method: Total BTEX - Total B [*] Analyte	TEX Calculation Result <0.00402 nge Organics (DR0	U				D_	Prepared Prepared		1
Method: Total BTEX - Total B Analyte Total BTEX Method: 8015 NM - Diesel Rai	TEX Calculation Result <0.00402 nge Organics (DR0	U (GC) Qualifier	0.00402		mg/Kg	=	<u> </u>	01/04/22 15:22	1
Method: Total BTEX - Total B Analyte Total BTEX Method: 8015 NM - Diesel Rai Analyte	TEX Calculation Result Result Result <50.0	O) (GC) Qualifier U	0.00402		mg/Kg	=	<u> </u>	01/04/22 15:22 Analyzed	1
Method: Total BTEX - Total BTA Analyte Total BTEX Method: 8015 NM - Diesel Rai Analyte Total TPH	TEX Calculation Result <0.00402 nge Organics (DRO Result <50.0 ange Organics (DI	O) (GC) Qualifier U	0.00402	MDL	mg/Kg	=	<u> </u>	01/04/22 15:22 Analyzed	Dil Fac Dil Fac 1 Dil Fac

C10-C28) Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	12/29/21 15:34	12/31/21 23:48	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130		12/29/21 15:34	12/31/21 23:48	1
o-Terphenyl	116		70 - 130		12/29/21 15:34	12/31/21 23:48	1

50.0

mg/Kg

<50.0 U

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9820		50.0		mg/Kg			12/31/21 10:48	10

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12/31/21 23:48

12/29/21 15:34

Matrix: Solid

Lab Sample ID: 890-1770-6

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-1770-1

Project/Site: Kaiser SWD

SDG: Lea County New Mexico

Client Sample ID: SW-9

Date Collected: 12/23/21 00:00 Date Received: 12/28/21 10:30

Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/29/21 14:29	12/30/21 22:12	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/29/21 14:29	12/30/21 22:12	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/29/21 14:29	12/30/21 22:12	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/29/21 14:29	12/30/21 22:12	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/29/21 14:29	12/30/21 22:12	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/29/21 14:29	12/30/21 22:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				12/29/21 14:29	12/30/21 22:12	1
1,4-Difluorobenzene (Surr)	75		70 - 130				12/29/21 14:29	12/30/21 22:12	1
- Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/04/22 15:22	1
Analyte Total TDH		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH			50.0	MDL	mg/Kg	— Б	Prepared		DII Fac
								01/04/22 15:21	1
					mg/rtg			01/04/22 15:21	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)			g/.tg			01/04/22 15:21	1
Method: 8015B NM - Diesel Rang Analyte	• •	RO) (GC) Qualifier	RL	MDL	Unit	D	Prepared	01/04/22 15:21 Analyzed	Dil Fac
Analyte Gasoline Range Organics	• •	Qualifier	RL 50.0	MDL		<u>D</u>	Prepared 12/29/21 15:34		
Analyte Gasoline Range Organics (GRO)-C6-C10	Result	Qualifier U		MDL	Unit	<u>D</u>		Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result < 50.0	Qualifier U	50.0	MDL	Unit mg/Kg	<u> </u>	12/29/21 15:34	Analyzed 01/01/22 00:09	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result < 50.0	Qualifier U	50.0	MDL	Unit mg/Kg	<u>D</u>	12/29/21 15:34	Analyzed 01/01/22 00:09	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 <50.0	Qualifier U U U	50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	12/29/21 15:34 12/29/21 15:34 12/29/21 15:34 Prepared	Analyzed 01/01/22 00:09 01/01/22 00:09 01/01/22 00:09 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0 <50.0 <50.0	Qualifier U U U	50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u> </u>	12/29/21 15:34 12/29/21 15:34 12/29/21 15:34	Analyzed 01/01/22 00:09 01/01/22 00:09 01/01/22 00:09	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U U U	50.0 50.0 50.0 Limits	MDL	Unit mg/Kg mg/Kg	<u>D</u>	12/29/21 15:34 12/29/21 15:34 12/29/21 15:34 Prepared	Analyzed 01/01/22 00:09 01/01/22 00:09 01/01/22 00:09 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U U Qualifier	50.0 50.0 50.0 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	12/29/21 15:34 12/29/21 15:34 12/29/21 15:34 Prepared 12/29/21 15:34	Analyzed 01/01/22 00:09 01/01/22 00:09 01/01/22 00:09 Analyzed 01/01/22 00:09	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U Qualifier	50.0 50.0 50.0 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	12/29/21 15:34 12/29/21 15:34 12/29/21 15:34 Prepared 12/29/21 15:34	Analyzed 01/01/22 00:09 01/01/22 00:09 01/01/22 00:09 Analyzed 01/01/22 00:09	Dil Face 1 1 1 Dil Face

Client Sample ID: SW-10

Date Collected: 12/23/21 00:00 Date Received: 12/28/21 10:30

Date Received. 12/20/21

Sample Depth: 0 - 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		12/29/21 14:29	12/30/21 22:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/29/21 14:29	12/30/21 22:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/29/21 14:29	12/30/21 22:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/29/21 14:29	12/30/21 22:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/29/21 14:29	12/30/21 22:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/29/21 14:29	12/30/21 22:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		S1+	70 - 130				12/29/21 14:29	12/30/21 22:32	

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Lab Sample ID: 890-1770-7

Matrix: Solid

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1/4/2022

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1770-1

SDG: Lea County New Mexico

Lab Sample ID: 890-1770-7

Matrix: Solid

Sample Depth: 0 - 4

Client Sample ID: SW-10

Date Collected: 12/23/21 00:00

Date Received: 12/28/21 10:30

Method: 8021B - Volatile Organic Compounds	(GC) (Continued)
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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	123		70 - 130	12/29/21 14:29	12/30/21 22:32	1

Method: Total	RTFX - Tota	I RTFX (Calculation

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402 U	0.00402	ma/Ka			01/04/22 15:22	1

Mothod: 8015 NM	Diosal Range	Organice	(DRO) (GC)

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	ma/Ka			01/04/22 15:21	1

Method: 8015B	NM - Diesel	Range Ore	anice l	(DRO)	(GC)
Methou. ou isb	IAIN - DIESEI	Range Org	janics i	(DRU)	(GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/29/21 15:34	01/01/22 00:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/29/21 15:34	01/01/22 00:30	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/29/21 15:34	01/01/22 00:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97	70 - 130	12/29/21 15:34	01/01/22 00:30	1
o-Terphenyl	113	70 - 130	12/29/21 15:34	01/01/22 00:30	1

Method: 300.0 - Anions, lor	n Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	354	4.98	mg/Kg			12/31/21 11:05	1

Client Sample ID: SW-11 Lab Sample ID: 890-1770-8

Date Collected: 12/23/21 00:00 Date Received: 12/28/21 10:30

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

	/								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/30/21 14:12	01/02/22 04:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/30/21 14:12	01/02/22 04:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/30/21 14:12	01/02/22 04:00	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/30/21 14:12	01/02/22 04:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/30/21 14:12	01/02/22 04:00	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/30/21 14:12	01/02/22 04:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130				12/30/21 14:12	01/02/22 04:00	1
1,4-Difluorobenzene (Surr)	89		70 - 130				12/30/21 14:12	01/02/22 04:00	1

Mothod:	Total RTF	Y - Total R	TFX Calculatio	n

Analyte	Result	Qualifier	KL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Total BTEX	<0.00401	U	0.00401	_	mg/Kg			01/04/22 15:22	1

Analyte	•	•	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH			<49.9	U	49.9	mg/l	(g		01/04/22 15:21	1

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Matrix: Solid

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1770-1 Project/Site: Kaiser SWD SDG: Lea County New Mexico

Client Sample ID: SW-11

Date Collected: 12/23/21 00:00 Date Received: 12/28/21 10:30

Sample Depth: 0 - 4

Lab Sample ID: 890-1770-8 Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier Dil Fac Analyte RL MDL Unit D Analyzed Prepared <49.9 U 12/29/21 15:34 01/01/22 00:50 49.9 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 49.9 12/29/21 15:34 01/01/22 00:50 <49.9 U mg/Kg C10-C28) mg/Kg 01/01/22 00:50 12/29/21 15:34 OII Range Organics (Over C28-C36) <49.9 U 49.9 Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed 1-Chlorooctane 70 - 130 12/29/21 15:34 01/01/22 00:50 95 o-Terphenyl 109 70 - 130 12/29/21 15:34 01/01/22 00:50

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result Q	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	348		5.03		mg/Kg			12/31/21 11:14	1

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 890-1770-1 Project/Site: Kaiser SWD SDG: Lea County New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		DED4	DED 74	Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-9746-A-1-B MS	Matrix Spike	124	79	
880-9746-A-1-C MSD	Matrix Spike Duplicate	116	92	
880-9746-A-6-G MS	Matrix Spike	127	111	
880-9746-A-6-H MSD	Matrix Spike Duplicate	127	106	
890-1770-1	SW-1	122	79	
890-1770-2	SW-3	131 S1+	104	
890-1770-3	SW-6	124	104	
890-1770-4	SW-7	128	90	
890-1770-5	SW-8	129	89	
890-1770-6	SW-9	126	75	
890-1770-7	SW-10	167 S1+	123	
890-1770-8	SW-11	156 S1+	89	
LCS 880-15736/1-A	Lab Control Sample	144 S1+	110	
LCS 880-15812/1-A	Lab Control Sample	121	0 S1-	
LCSD 880-15736/2-A	Lab Control Sample Dup	109	99	
LCSD 880-15812/2-A	Lab Control Sample Dup	143 S1+	117	
MB 880-15736/5-A	Method Blank	103	105	
MB 880-15812/5-A	Method Blank	90	87	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1770-1	SW-1	98	113	
890-1770-1 MS	SW-1	86	87	
890-1770-1 MSD	SW-1	87	88	
890-1770-2	SW-3	101	116	
890-1770-3	SW-6	90	101	
890-1770-4	SW-7	93	108	
890-1770-5	SW-8	100	116	
890-1770-6	SW-9	92	108	
890-1770-7	SW-10	97	113	
890-1770-8	SW-11	95	109	
LCS 880-15746/2-A	Lab Control Sample	112	108	
LCSD 880-15746/3-A	Lab Control Sample Dup	100	96	
MB 880-15746/1-A	Method Blank	108	132 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Tetra Tech, Inc. Job ID: 890-1770-1 Project/Site: Kaiser SWD SDG: Lea County New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-15736/5-A

Matrix: Solid Analysis Batch: 15788 Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 15736

		MB	MR						
Α	Analyte	Result	Qualifier	RL	MDL U	nit D	Prepared	Analyzed	Dil Fa
Ē	Benzene	<0.00200	U	0.00200	m	ig/Kg	12/29/21 14:29	12/30/21 14:42	
Т	- Toluene	<0.00200	U	0.00200	m	ıg/Kg	12/29/21 14:29	12/30/21 14:42	
E	Ethylbenzene	<0.00200	U	0.00200	m	ıg/Kg	12/29/21 14:29	12/30/21 14:42	
n	n-Xylene & p-Xylene	<0.00400	U	0.00400	m	ıg/Kg	12/29/21 14:29	12/30/21 14:42	
o	p-Xylene	<0.00200	U	0.00200	m	ıg/Kg	12/29/21 14:29	12/30/21 14:42	
Х	Kylenes, Total	<0.00400	U	0.00400	m	ıg/Kg	12/29/21 14:29	12/30/21 14:42	

MB MB

Surrogate	%Recovery	Qualifier	Limits	1	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	12/	/29/21 14:29	12/30/21 14:42	1
1.4-Difluorobenzene (Surr)	105		70 - 130	12/	/29/21 14:29	12/30/21 14:42	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15736

Lab Sample ID: LCS 880-15736/1-A Matrix: Solid

Analysis Batch: 15788

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08657		mg/Kg		87	70 - 130	
Toluene	0.100	0.09264		mg/Kg		93	70 - 130	
Ethylbenzene	0.100	0.09669		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	0.200	0.2048		mg/Kg		102	70 - 130	
o-Xylene	0.100	0.1026		mg/Kg		103	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: LCSD 880-15736/2-A

Matrix: Solid

Analysis Batch: 15788

Client Sample ID: Lab Control Samp

Prep Type: Total/NA

Prep Batch: 15736

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07239		mg/Kg		72	70 - 130	18	35
Toluene	0.100	0.07560		mg/Kg		76	70 - 130	20	35
Ethylbenzene	0.100	0.07364		mg/Kg		74	70 - 130	27	35
m-Xylene & p-Xylene	0.200	0.1618		mg/Kg		81	70 - 130	23	35
o-Xylene	0.100	0.08266		mg/Kg		83	70 - 130	22	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1.4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-9746-A-1-B MS

Matrix: Solid

Analysis Batch: 15788

Client Sample ID: Matrix Spik	е
Prep Type: Total/N	Α

Prep Batch: 15736

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F1	0.101	0.05309	F1	mg/Kg	_	53	70 - 130	
Toluene	<0.00200	U F1	0.101	0.06625	F1	mg/Kg		66	70 - 130	

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QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1770-1 Project/Site: Kaiser SWD SDG: Lea County New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-9746-A-1-B MS

Lab Sample ID: 880-9746-A-1-C MSD

Matrix: Solid

Matrix: Solid

Analysis Batch: 15788

Analysis Batch: 15788

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 15736

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00200 U 0.101 0.07124 71 70 - 130 mg/Kg m-Xylene & p-Xylene < 0.00399 0.202 0.1407 mg/Kg 70 70 - 130 0.101 0.07366 o-Xylene <0.00200 U mg/Kg 73 70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	79		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 15736

RPD

Sample Sample Spike MSD MSD %Rec. %Rec Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit 0.100 0.05242 F1 Benzene <0.00200 UF1 mg/Kg 52 70 - 130 35 Toluene 0.100 0.06213 F1 62 35 <0.00200 UF1 mg/Kg 70 - 130 6 Ethylbenzene <0.00200 U 0.100 0.07132 mg/Kg 71 70 - 130 0 35 <0.00399 UF1 0.200 0.1372 F1 70 - 130 35 m-Xylene & p-Xylene mg/Kg 3 0.100 o-Xylene <0.00200 U 0.07030 70 70 - 130 mg/Kg

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: MB 880-15812/5-A

Matrix: Solid

Analysis Batch: 15844

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15812

MD MD

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/30/21 14:12	01/01/22 21:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/30/21 14:12	01/01/22 21:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/30/21 14:12	01/01/22 21:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/30/21 14:12	01/01/22 21:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/30/21 14:12	01/01/22 21:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/30/21 14:12	01/01/22 21:46	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	12/30/21 14:12	01/01/22 21:46	1
1,4-Difluorobenzene (Surr)	87		70 - 130	12/30/21 14:12	01/01/22 21:46	1

Lab Sample ID: LCS 880-15812/1-A

Matrix: Solid

Analysis Batch: 15844

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15812

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09353		mg/Kg		94	70 - 130	
Toluene	0.100	0.08852		mg/Kg		89	70 - 130	
Ethylbenzene	0.100	0.07882		mg/Kg		79	70 - 130	
m-Xylene & p-Xylene	0.200	0.1608		mg/Kg		80	70 - 130	

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Prep Batch: 15812

Prep Type: Total/NA

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1770-1 Project/Site: Kaiser SWD SDG: Lea County New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-15812/1-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Solid Analysis Batch: 15844

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits D o-Xylene 0.100 0.07679 70 - 130 mg/Kg

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 121 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 0 S1-

Lab Sample ID: LCSD 880-15812/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 15844

Prep Batch: 15812 Spike LCSD LCSD RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Benzene 0.100 0.07182 mg/Kg 72 70 - 130 26 35 Toluene 0.100 0.08616 mg/Kg 86 70 - 130 3 35 Ethylbenzene 0.100 0.08216 mg/Kg 82 70 - 130 4 35 35 m-Xylene & p-Xylene 0.200 0.1660 mg/Kg 83 70 - 130 o-Xylene 0.100 0.08149 mg/Kg 81 70 - 130

LCSD LCSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 143 S1+ 70 - 130 1,4-Difluorobenzene (Surr) 117 70 - 130

Lab Sample ID: 880-9746-A-6-G MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 15844

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U F1	0.0994	0.06266	F1	mg/Kg		63	70 _ 130	
Toluene	<0.00202	U F2 F1	0.0994	0.06389	F1	mg/Kg		64	70 _ 130	
Ethylbenzene	<0.00202	U F1	0.0994	0.06876	F1	mg/Kg		69	70 _ 130	
m-Xylene & p-Xylene	<0.00403	U	0.199	0.1390		mg/Kg		70	70 _ 130	
o-Xylene	<0.00202	U F1	0.0994	0.06885	F1	mg/Kg		69	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 127 70 - 130 1,4-Difluorobenzene (Surr) 111

Lab Sample ID: 880-9746-A-6-H MSD

Matrix: Solid Analysis Batch: 15844

Analysis Batch: 15844									Prep	Batch:	15812
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U F1	0.0998	0.06980		mg/Kg		70	70 - 130	11	35
Toluene	<0.00202	U F2 F1	0.0998	0.007273	F2 F1	mg/Kg		7	70 - 130	159	35
Ethylbenzene	<0.00202	U F1	0.0998	0.06958		mg/Kg		70	70 - 130	1	35
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1399		mg/Kg		70	70 - 130	1	35
o-Xylene	<0.00202	U F1	0.0998	0.06893	F1	mg/Kg		69	70 - 130	0	35

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Prep Type: Total/NA

Prep Batch: 15812

Prep Type: Total/NA

Limits

Job ID: 890-1770-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

MSD MSD

Lab Sample ID: 880-9746-A-6-H MSD

Matrix: Solid

Analysis Batch: 15844

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 15812

Surrogate %Recovery Qualifier 4-Bromofluorobenzene (Surr) 127 70 - 130 1,4-Difluorobenzene (Surr) 106 70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-15746/1-A

Matrix: Solid

Analysis Batch: 15825

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15746

MB MB Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 12/29/21 15:34 12/31/21 20:42 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 12/29/21 15:34 12/31/21 20:42 C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 12/29/21 15:34 12/31/21 20:42

MB MB

Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed 108 70 - 130 12/29/21 15:34 12/31/21 20:42 1-Chlorooctane o-Terphenyl 132 S1+ 70 - 130 12/29/21 15:34 12/31/21 20:42

Lab Sample ID: LCS 880-15746/2-A

Matrix: Solid

Analysis Batch: 15825

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 15746

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 941.7 mg/Kg 94 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1152 mg/Kg 115 70 - 130 C10-C28)

LCS LCS

%Recovery Surrogate Qualifier Limits 70 - 130 1-Chlorooctane 112 o-Terphenyl 108 70 - 130

Lab Sample ID: LCSD 880-15746/3-A

Matrix: Solid

Analysis Batch: 15825

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 15746

%Rec. RPD Limit

LCSD LCSD Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 888.9 89 70 - 130 6 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1107 70 - 130 20 mg/Kg 111 C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	96		70 - 130

Client: Tetra Tech, Inc. Job ID: 890-1770-1 Project/Site: Kaiser SWD SDG: Lea County New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1770-1 MS

Matrix: Solid

Analysis Batch: 15825

Client Sample ID: SW-1
Prep Type: Total/NA
Duan Databi 45740

Prep Batch: 15746

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U F1	996	484.2	F1	mg/Kg		46	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U F1	996	456.9	F1	mg/Kg		46	70 - 130	
C10-C28)										

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	87		70 - 130

Lab Sample ID: 890-1770-1 MSD Client Sample ID: SW-1 Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 15825									Prep	Batch:	15746	
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<49.9	U F1	999	495.1	F1	mg/Kg		47	70 - 130	2	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<49.9	U F1	999	467.3	F1	mg/Kg		47	70 - 130	2	20	

C10-C28)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	88		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-15755/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 15821

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			12/31/21 07:03	1

Lab Sample ID: LCS 880-15755/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 15821

		Spike	LCS	LCS				%Rec.	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	 	250	249.8	·	ma/Ka		100	90 - 110	 -

Lab Sample ID: LCSD 880-15755/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 15821

Spike LCSD LCSD %Rec. **RPD** Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 253.3 101 90 - 110 20 mg/Kg

Job ID: 890-1770-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-9745-A-1-B MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 15821

Sample Sample MS MS %Rec. Spike Qualifier Analyte Result Added Result Qualifier %Rec Limits Unit D Chloride 274 2500 2976 mg/Kg 108 90 - 110

Lab Sample ID: 880-9745-A-1-C MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 15821

Sample Sample Spike MSD MSD %Rec. RPD Qualifier Analyte Result Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 274 2500 2966 mg/Kg 108 90 - 110 n

Lab Sample ID: 880-9747-A-3-D MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 15821

MS MS Spike %Rec. Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride <5.04 U 252 262.9 mg/Kg 103 90 - 110

Lab Sample ID: 880-9747-A-3-E MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 15821

MSD MSD RPD Sample Sample Spike %Rec. Qualifier Added Limit Analyte Result Result Qualifier Unit %Rec Limits RPD Chloride <5.04 252 259.9 101 90 - 110 20 mg/Kg

Lab Sample ID: MB 880-15803/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 15920

MR MR

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 5.00 Chloride <5.00 U mg/Kg 01/03/22 16:56

Lab Sample ID: LCS 880-15803/2-A Client Sample ID: Lab Control Sample **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 15920

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit %Rec Limits Chloride 250 245.5 mg/Kg 90 - 110

Lab Sample ID: LCSD 880-15803/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 15920

LCSD LCSD RPD Spike %Rec. Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Chloride 250 239.6 mg/Kg 96 90 - 110 20

Lab Sample ID: 890-1770-1 MS Client Sample ID: SW-1 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 15920

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Spike MS MS %Rec. Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 287 F1 250 527.7 mg/Kg 97 90 - 110

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Prep Type: Soluble

Analysis Batch: 15920

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1770-1 Project/Site: Kaiser SWD SDG: Lea County New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1770-1 MSD **Client Sample ID: SW-1 Matrix: Solid**

Prep Type: Soluble

RPD Sample Sample Spike MSD MSD %Rec. Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit %Rec Chloride 287 F1 250 505.3 F1 mg/Kg 88 90 - 110 4 20

QC Association Summary

Client: Tetra Tech, Inc.

Job ID: 890-1770-1

Project/Site: Kaiser SWD

SDG: Lea County New Mexico

GC VOA

Prep Batch: 15736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1770-1	SW-1	Total/NA	Solid	5035	
890-1770-2	SW-3	Total/NA	Solid	5035	
890-1770-3	SW-6	Total/NA	Solid	5035	
890-1770-4	SW-7	Total/NA	Solid	5035	
890-1770-5	SW-8	Total/NA	Solid	5035	
890-1770-6	SW-9	Total/NA	Solid	5035	
890-1770-7	SW-10	Total/NA	Solid	5035	
MB 880-15736/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-15736/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-15736/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9746-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-9746-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 15788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1770-1	SW-1	Total/NA	Solid	8021B	15736
890-1770-2	SW-3	Total/NA	Solid	8021B	15736
890-1770-3	SW-6	Total/NA	Solid	8021B	15736
890-1770-4	SW-7	Total/NA	Solid	8021B	15736
890-1770-5	SW-8	Total/NA	Solid	8021B	15736
890-1770-6	SW-9	Total/NA	Solid	8021B	15736
890-1770-7	SW-10	Total/NA	Solid	8021B	15736
MB 880-15736/5-A	Method Blank	Total/NA	Solid	8021B	15736
LCS 880-15736/1-A	Lab Control Sample	Total/NA	Solid	8021B	15736
LCSD 880-15736/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	15736
880-9746-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	15736
880-9746-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	15736

Prep Batch: 15812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1770-8	SW-11	Total/NA	Solid	5035	
MB 880-15812/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-15812/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-15812/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9746-A-6-G MS	Matrix Spike	Total/NA	Solid	5035	
880-9746-A-6-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 15844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1770-8	SW-11	Total/NA	Solid	8021B	15812
MB 880-15812/5-A	Method Blank	Total/NA	Solid	8021B	15812
LCS 880-15812/1-A	Lab Control Sample	Total/NA	Solid	8021B	15812
LCSD 880-15812/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	15812
880-9746-A-6-G MS	Matrix Spike	Total/NA	Solid	8021B	15812
880-9746-A-6-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	15812

Analysis Batch: 16004

 Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1770-1	SW-1	Total/NA	Solid	Total BTEX	
890-1770-2	SW-3	Total/NA	Solid	Total BTEX	
890-1770-3	SW-6	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Tetra Tech, Inc.

Job ID: 890-1770-1

Project/Site: Kaiser SWD

SDG: Lea County New Mexico

GC VOA (Continued)

Analysis Batch: 16004 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1770-4	SW-7	Total/NA	Solid	Total BTEX	
890-1770-5	SW-8	Total/NA	Solid	Total BTEX	
890-1770-6	SW-9	Total/NA	Solid	Total BTEX	
890-1770-7	SW-10	Total/NA	Solid	Total BTEX	
890-1770-8	SW-11	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 15746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1770-1	SW-1	Total/NA	Solid	8015NM Prep	
890-1770-2	SW-3	Total/NA	Solid	8015NM Prep	
890-1770-3	SW-6	Total/NA	Solid	8015NM Prep	
890-1770-4	SW-7	Total/NA	Solid	8015NM Prep	
890-1770-5	SW-8	Total/NA	Solid	8015NM Prep	
890-1770-6	SW-9	Total/NA	Solid	8015NM Prep	
890-1770-7	SW-10	Total/NA	Solid	8015NM Prep	
890-1770-8	SW-11	Total/NA	Solid	8015NM Prep	
MB 880-15746/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-15746/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-15746/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1770-1 MS	SW-1	Total/NA	Solid	8015NM Prep	
890-1770-1 MSD	SW-1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 15825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1770-1	SW-1	Total/NA	Solid	8015B NM	15746
890-1770-2	SW-3	Total/NA	Solid	8015B NM	15746
890-1770-3	SW-6	Total/NA	Solid	8015B NM	15746
890-1770-4	SW-7	Total/NA	Solid	8015B NM	15746
890-1770-5	SW-8	Total/NA	Solid	8015B NM	15746
890-1770-6	SW-9	Total/NA	Solid	8015B NM	15746
890-1770-7	SW-10	Total/NA	Solid	8015B NM	15746
890-1770-8	SW-11	Total/NA	Solid	8015B NM	15746
MB 880-15746/1-A	Method Blank	Total/NA	Solid	8015B NM	15746
LCS 880-15746/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	15746
LCSD 880-15746/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	15746
890-1770-1 MS	SW-1	Total/NA	Solid	8015B NM	15746
890-1770-1 MSD	SW-1	Total/NA	Solid	8015B NM	15746

Analysis Batch: 15912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1770-1	SW-1	Total/NA	Solid	8015 NM	
890-1770-2	SW-3	Total/NA	Solid	8015 NM	
890-1770-3	SW-6	Total/NA	Solid	8015 NM	
890-1770-4	SW-7	Total/NA	Solid	8015 NM	
890-1770-5	SW-8	Total/NA	Solid	8015 NM	
890-1770-6	SW-9	Total/NA	Solid	8015 NM	
890-1770-7	SW-10	Total/NA	Solid	8015 NM	
890-1770-8	SW-11	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Tetra Tech, Inc.

Job ID: 890-1770-1

Project/Site: Kaiser SWD

SDG: Lea County New Mexico

HPLC/IC

Leach Batch: 15755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1770-3	SW-6	Soluble	Solid	DI Leach	
890-1770-4	SW-7	Soluble	Solid	DI Leach	
890-1770-5	SW-8	Soluble	Solid	DI Leach	
890-1770-6	SW-9	Soluble	Solid	DI Leach	
890-1770-7	SW-10	Soluble	Solid	DI Leach	
890-1770-8	SW-11	Soluble	Solid	DI Leach	
MB 880-15755/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-15755/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-15755/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-9745-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-9745-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-9747-A-3-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-9747-A-3-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 15803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1770-1	SW-1	Soluble	Solid	DI Leach	
890-1770-2	SW-3	Soluble	Solid	DI Leach	
MB 880-15803/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-15803/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-15803/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1770-1 MS	SW-1	Soluble	Solid	DI Leach	
890-1770-1 MSD	SW-1	Soluble	Solid	DI Leach	

Analysis Batch: 15821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1770-3	SW-6	Soluble	Solid	300.0	15755
890-1770-4	SW-7	Soluble	Solid	300.0	15755
890-1770-5	SW-8	Soluble	Solid	300.0	15755
890-1770-6	SW-9	Soluble	Solid	300.0	15755
890-1770-7	SW-10	Soluble	Solid	300.0	15755
890-1770-8	SW-11	Soluble	Solid	300.0	15755
MB 880-15755/1-A	Method Blank	Soluble	Solid	300.0	15755
LCS 880-15755/2-A	Lab Control Sample	Soluble	Solid	300.0	15755
LCSD 880-15755/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	15755
880-9745-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	15755
880-9745-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	15755
880-9747-A-3-D MS	Matrix Spike	Soluble	Solid	300.0	15755
880-9747-A-3-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	15755

Analysis Batch: 15920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1770-1	SW-1	Soluble	Solid	300.0	15803
890-1770-2	SW-3	Soluble	Solid	300.0	15803
MB 880-15803/1-A	Method Blank	Soluble	Solid	300.0	15803
LCS 880-15803/2-A	Lab Control Sample	Soluble	Solid	300.0	15803
LCSD 880-15803/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	15803
890-1770-1 MS	SW-1	Soluble	Solid	300.0	15803
890-1770-1 MSD	SW-1	Soluble	Solid	300.0	15803

Eurofins Xenco, Carlsbad

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Client: Tetra Tech, Inc.

Job ID: 890-1770-1

Project/Site: Kaiser SWD

SDG: Lea County New Mexico

Client Sample ID: SW-1 Lab Sample ID: 890-1770-1

Date Collected: 12/23/21 00:00 Matrix: Solid
Date Received: 12/28/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	15736	12/29/21 14:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15788	12/30/21 20:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			16004	01/04/22 15:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15912	01/03/22 14:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	15746	12/29/21 15:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15825	12/31/21 21:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	15803	12/30/21 12:27	CA	XEN MID
Soluble	Analysis	300.0		1			15920	01/03/22 17:31	CH	XEN MID

Client Sample ID: SW-3 Lab Sample ID: 890-1770-2

Date Collected: 12/23/21 00:00 Matrix: Solid
Date Received: 12/28/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	15736	12/29/21 14:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15788	12/30/21 20:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			16004	01/04/22 15:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15912	01/04/22 15:21	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	15746	12/29/21 15:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15825	12/31/21 22:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	15803	12/30/21 12:27	CA	XEN MID
Soluble	Analysis	300.0		1			15920	01/03/22 18:07	CH	XEN MID

Client Sample ID: SW-6 Lab Sample ID: 890-1770-3

Date Collected: 12/23/21 00:00 Matrix: Solid
Date Received: 12/28/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	15736	12/29/21 14:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15788	12/30/21 21:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			16004	01/04/22 15:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15912	01/04/22 15:21	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	15746	12/29/21 15:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15825	12/31/21 23:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	15755	12/29/21 16:19	CA	XEN MID
Soluble	Analysis	300.0		10			15821	01/03/22 17:31	CH	XEN MID

Client Sample ID: SW-7 Lab Sample ID: 890-1770-4

Date Collected: 12/23/21 00:00 Matrix: Solid
Date Received: 12/28/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	15736	12/29/21 14:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15788	12/30/21 21:31	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			16004	01/04/22 15:22	AJ	XEN MID

Eurofins Xenco, Carlsbad

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Client: Tetra Tech, Inc.

Job ID: 890-1770-1

Project/Site: Kaiser SWD

SDG: Lea County New Mexico

Client Sample ID: SW-7

Lab Sample ID: 890-1770-4

Date Collected: 12/23/21 00:00 Matrix: Solid
Date Received: 12/28/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			15912	01/04/22 15:21	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	15746	12/29/21 15:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15825	12/31/21 23:27	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	15755	12/29/21 16:19	CA	XEN MID
Soluble	Analysis	300.0		10			15821	01/03/22 17:39	CH	XEN MID

Client Sample ID: SW-8 Lab Sample ID: 890-1770-5

Date Collected: 12/23/21 00:00 Matrix: Solid

Date Received: 12/28/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	15736	12/29/21 14:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15788	12/30/21 21:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			16004	01/04/22 15:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15912	01/04/22 15:21	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	15746	12/29/21 15:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15825	12/31/21 23:48	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	15755	12/29/21 16:19	CA	XEN MID
Soluble	Analysis	300.0		10			15821	12/31/21 10:48	CH	XEN MID

Client Sample ID: SW-9 Lab Sample ID: 890-1770-6

Date Collected: 12/23/21 00:00 Date Received: 12/28/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	15736	12/29/21 14:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15788	12/30/21 22:12	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			16004	01/04/22 15:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15912	01/04/22 15:21	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	15746	12/29/21 15:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15825	01/01/22 00:09	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	15755	12/29/21 16:19	CA	XEN MID
Soluble	Analysis	300.0		1			15821	12/31/21 10:57	CH	XEN MID

Client Sample ID: SW-10 Lab Sample ID: 890-1770-7

Date Collected: 12/23/21 00:00 Date Received: 12/28/21 10:30

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	15736	12/29/21 14:29	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15788	12/30/21 22:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			16004	01/04/22 15:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15912	01/04/22 15:21	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.00 g	10 mL	15746 15825	12/29/21 15:34 01/01/22 00:30	DM AJ	XEN MID XEN MID

Eurofins Xenco, Carlsbad

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Matrix: Solid

Matrix: Solid

Leach

XEN MID

Client: Tetra Tech, Inc. Job ID: 890-1770-1 Project/Site: Kaiser SWD SDG: Lea County New Mexico

Client Sample ID: SW-10 Lab Sample ID: 890-1770-7

Date Collected: 12/23/21 00:00 Matrix: Solid Date Received: 12/28/21 10:30

Batch Batch Dil Initial Final Batch Prepared Method Prep Type Туре Run Factor Amount Amount Number or Analyzed Analyst Lab

300.0 Soluble Analysis 1 15821 12/31/21 11:05 СН XEN MID Client Sample ID: SW-11 Lab Sample ID: 890-1770-8

Date Collected: 12/23/21 00:00 **Matrix: Solid**

5.02 g

15755

12/29/21 16:19

CA

50 mL

Date Received: 12/28/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	15812	12/30/21 14:12	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	15844	01/02/22 04:00	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16004	01/04/22 15:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15912	01/04/22 15:21	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	15746	12/29/21 15:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15825	01/01/22 00:50	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	15755	12/29/21 16:19	CA	XEN MID
Soluble	Analysis	300.0		1			15821	12/31/21 11:14	CH	XEN MID

Laboratory References:

Soluble

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

DI Leach

Released to Imaging: 9/1/2023 2:55:43 PM

Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Job ID: 890-1770-1

Project/Site: Kaiser SWD

SDG: Lea County New Mexico

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pre	ogram	Identification Number	Expiration Date
Texas	NELAP T104		T104704400-21-22	06-30-22
The following analytes	are included in this report, bu	t the laboratory is not certifi	ed by the governing authority. This list ma	y include analytes for y
the agency does not of	' '	t the laberatory to het eertin	od by the governing additionty. The not me	ly include unalytes for t
the agency does not of Analysis Method	' '	Matrix	Analyte	y molude analytes for t
9 ,	fer certification.	•	, , ,	

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Method Summary

Client: Tetra Tech, Inc.

Job ID: 890-1770-1

Project/Site: Kaiser SWD

SDG: Lea County New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

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Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-1770-1 SDG: Lea County New Mexico

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1770-1	SW-1	Solid	12/23/21 00:00	12/28/21 10:30	0 - 4
890-1770-2	SW-3	Solid	12/23/21 00:00	12/28/21 10:30	0 - 4
890-1770-3	SW-6	Solid	12/23/21 00:00	12/28/21 10:30	0 - 4
890-1770-4	SW-7	Solid	12/23/21 00:00	12/28/21 10:30	0 - 4
890-1770-5	SW-8	Solid	12/23/21 00:00	12/28/21 10:30	0 - 4
890-1770-6	SW-9	Solid	12/23/21 00:00	12/28/21 10:30	0 - 4
890-1770-7	SW-10	Solid	12/23/21 00:00	12/28/21 10:30	0 - 4
890-1770-8	SW-11	Solid	12/23/21 00:00	12/28/21 10:30	0 - 4

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Received by OCD: 8/28/2023 2:02:22 PM

1/4/2022

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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Analysis Reque	st of Chain of Custody Record Tetra Tech, Inc.		890-1	770	Cha		of Cur						_									ſ	Page	<u>e</u>			<u>1</u> of		1
Client Name:	Permian Water Solutions	Site Manager:				,	nzale						AN	AL	/SIS									_					
Project Name:	Kaiser SWD												ı	1		(0	Sire 	cle	or:	5 p e	ecii	fy N	leti	100	dN	0.)			
Project Location: (county, state)	Lea County, New Mexico	Project #:	· · · · · · · · · · · · · · · · · · ·		21	2C	-MD-	-022	30																٦				
Invoice to:	Dusty McInturff - Permian Water Solutions													(RO)		위	шĝ								ched lis				
Receiving Laboratory:	Eurofins Xenco	Sampler Signa	ture:		Ez	eq	uiel N	/lore	no				8	ORO-A		Cr Pb Se Hg	L Lo Se			ñ	,				see atta				
Comments:													X 8260B	DRO-		8 3	3			/ 624 8270C/625				TDS	nistry (s	9)			
		SAMP	LING	N	ATF	RIX	P		VATIVE HOD	2	RS	(N)	BTEX	GRO.		Ag As Ba	g As	olatiles		Vol 82	809)S)	Sulfate	er Cher	Balanc			
LAB#	SAMPLE IDENTIFICATION	YEAR: 2020 H V Q	TIME	WATER	SOIL		HGL.	HNO ₃	None		# CONTAINERS	FILTERED (Y/N)	BTEX 8021B		PAH 8270C	Total Metals A	TCI P Volatiles	TCLP Semi Volatiles	RCI	GC/MS Semi Vol. 8270C/	PCB's 8082	NORM	PLM (Asbestos) Chloride	Chloride S	General Water Chemistry (see attached list)	Anion/Cation Balance			Hold
	SW-1 (0-4')	12/23/2021		T	Х			X	_				X	Х			I			I		П	×	_	\prod				
	SW-3 (0-4')	12/23/2021			Х			X	\prod				X	X									X						
	SW-6 (0-4')	12/23/2021		I	х			X					X	Х						\perp			X				Ш		
	SW-7 (0-4')	12/23/2021			X			Х					х	Х									×	_	Ш		Ш		
	SW-8 (0-4')	12/23/2021			X			X					Х	X						上			X				П		
	SW-9 (0-4')	12/23/2021			X			X					X	Х			\perp	L		\perp	\perp	Ц	X	_	Ш		$\perp \downarrow$		
	SW-10 (0-4')	12/23/2021		L	X			X					X	X	Ц		\perp			\perp	\perp	\sqcup	X	L	Ш	\perp	$\perp \! \! \! \! \! \! \! \! \! \! \perp$	\rightarrow	
	SW-11 (0-4')	12/23/2021			X			X					X	X		1	1	_		\perp	\perp	\sqcup	X	\perp	Н	4	\bot	\rightarrow	
							\sqcup		11				1	_	Ц	1	\perp	_		\bot	\perp	\sqcup	\bot	\bot	\sqcup	+	+		
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Relinquished by:	Date: Time:	Received by:					Date:		Time:				2	٠ لير	0			_	,			ort Lim			RP I	Repo	rt		

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-1770-1

SDG Number: Lea County New Mexico

ODG Namber. Lea Gounty New Mexico

Login Number: 1770 List Source: Eurofins Xenco, Carlsbad

List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-1770-1

SDG Number: Lea County New Mexico

List Source: Eurofins Xenco, Midland

List Creation: 12/29/21 11:05 AM

Login Number: 1770 List Number: 2

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

Euronnis Aerico, Carisbau

Released to Imaging: 9/1/2023 2:55:43 PM

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<6mm (1/4").

Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-1502-1

Laboratory Sample Delivery Group: 212C-MD-02230

Client Project/Site: Kaiser SWD

For:

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Clair Gonzales

RAMER

Authorized for release by: 11/10/2021 1:19:33 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env Released to Imaging: 9/1/2023 2:55:43 PM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-1502-1 SDG: 212C-MD-02230

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Definitions/Glossary

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

Qualifiers

GC VOA
Qualifier

F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Qualifier Description

GC Semi VOA

Qualifier	Qualifier Description							
*1	LCS/LCSD RPD exceeds control limits.							
F1	MS and/or MSD recovery exceeds control limits.							
F2	MS/MSD RPD exceeds control limits							
S1-	Surrogate recovery exceeds control limits, low biased.							
S1+	Surrogate recovery exceeds control limits, high biased.							
U	Indicates the analyte was analyzed for but not detected.							

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Eurofins Xenco, Carlsbad

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RPD

Definitions/Glossary

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Case Narrative

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Job ID: 890-1502-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1502-1

Receipt

The samples were received on 10/29/2021 12:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-3 (6) (890-1502-3), BH-4 (6) (890-1502-4), BH-5 (6) (890-1502-5), BH-6 (6) (890-1502-6), BH-8 (6) (890-1502-8), BH-9 (6) (890-1502-9), BH-10 (6) (890-1502-10), BH-12 (6) (890-1502-12) and BH-15 (6) (890-1502-15). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-11075 and analytical batch 880-11206 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-11109 and 880-11112 and analytical batch 880-11221 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: BH-65 (15) (890-1502-65). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-11111 and analytical batch 880-11259 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-41 (15) (890-1502-41), BH-42 (15) (890-1502-42), BH-43 (15) (890-1502-43), BH-44 (15) (890-1502-44), BH-45 (15) (890-1502-45), BH-46 (15) (890-1502-46), BH-47 (15) (890-1502-47), BH-48 (15) (890-1502-48), BH-49 (15) (890-1502-49), BH-50 (15) (890-1502-50), BH-51 (15) (890-1502-51), BH-52 (15) (890-1502-52), BH-54 (15) (890-1502-54), BH-55 (15) (890-1502-55), BH-56 (15) (890-1502-56), (CCV 880-11259/51) and (MB 880-11111/5-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-11113 and 880-11114 and analytical batch 880-11374 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW-12 (10) (890-1502-103), SW-14 (15) (890-1502-105), SW-15 (15) (890-1502-106) and SW-25 (15) (890-1502-116). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-11258/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-11445 and analytical batch 880-11449 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-57 (15) (890-1502-57), BH-58 (15) (890-1502-58), BH-59 (15) (890-1502-59), BH-60 (15) (890-1502-60), SW-29 (15) (890-1502-120), (CCV 880-11449/30) and (890-1520-A-1-D). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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Eurofins Xenco, Carlsbad 11/10/2021

Case Narrative

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Job ID: 890-1502-1 (Continued)

Laboratory: Eurofins Xenco, Carlsbad (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-11223 and analytical batch 880-11317 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH-2 (6) (890-1502-2) and BH-20 (6) (890-1502-20). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-11356 and analytical batch 880-11323 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH-61 (15) (890-1502-61), (890-1502-A-61-F MS) and (890-1502-A-61-G MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-11375 and analytical batch 880-11418 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-11237 and analytical batch 880-11453 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-11227 and analytical batch 880-11379 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-11240 and analytical batch 880-11455 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-11238 and 880-11238 and analytical batch 880-11454 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-11242 and analytical batch 880-11456 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-11236 and analytical batch 880-11452 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-11243 and analytical batch 880-11705 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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Eurofins Xenco, Carlsbad 11/10/2021

Case Narrative

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Job ID: 890-1502-1 (Continued)

Laboratory: Eurofins Xenco, Carlsbad (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Lab Sample ID: 890-1502-1

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-1 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199		mg/Kg		11/01/21 11:05	11/03/21 00:47	1
Toluene	< 0.00199	U F1	0.00199		mg/Kg		11/01/21 11:05	11/03/21 00:47	1
Ethylbenzene	< 0.00199	U F1	0.00199		mg/Kg		11/01/21 11:05	11/03/21 00:47	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		11/01/21 11:05	11/03/21 00:47	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 00:47	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		11/01/21 11:05	11/03/21 00:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				11/01/21 11:05	11/03/21 00:47	1
1,4-Difluorobenzene (Surr)	73		70 - 130				11/01/21 11:05	11/03/21 00:47	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/08/21 17:11	1
Method: 8015 NM - Diesel Range	•		DI	MDI	Unit	n	Propared	Analyzed	Dil Fa
Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	
Analyte Total TPH		Qualifier U	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/05/21 13:50	
Analyte	Result <49.9 ge Organics (D	Qualifier U RO) (GC)	49.9		mg/Kg		<u> </u>		1
Analyte Total TPH	Result <49.9 ge Organics (D Result	Qualifier U RO) (GC) Qualifier	49.9			<u>D</u>	Prepared Prepared	11/05/21 13:50 Analyzed	1
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <49.9 ge Organics (D Result	Qualifier U RO) (GC)	49.9		mg/Kg		<u> </u>	11/05/21 13:50	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 ge Organics (D Result	Qualifier U RO) (GC) Qualifier U F1 F2	49.9		mg/Kg		Prepared	11/05/21 13:50 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (D) Result <49.9 49.9	Qualifier U RO) (GC) Qualifier U F1 F2	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 11/02/21 11:44	11/05/21 13:50 Analyzed 11/03/21 11:42	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U RO) (GC) Qualifier U F1 F2 U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/02/21 11:44 11/02/21 11:44	11/05/21 13:50 Analyzed 11/03/21 11:42 11/03/21 11:42	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U RO) (GC) Qualifier U F1 F2 U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/02/21 11:44 11/02/21 11:44 11/02/21 11:44	Analyzed 11/03/21 11:42 11/03/21 11:42 11/03/21 11:42	Dil Face
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U RO) (GC) Qualifier U F1 F2 U	49.9 RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/02/21 11:44 11/02/21 11:44 11/02/21 11:44 Prepared	Analyzed 11/03/21 11:42 11/03/21 11:42 11/03/21 11:42 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U RO) (GC) Qualifier U F1 F2 U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/02/21 11:44 11/02/21 11:44 11/02/21 11:44 Prepared 11/02/21 11:44	11/05/21 13:50 Analyzed 11/03/21 11:42 11/03/21 11:42 11/03/21 11:42 Analyzed 11/03/21 11:42	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.9	Qualifier U RO) (GC) Qualifier U F1 F2 U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 11/02/21 11:44 11/02/21 11:44 11/02/21 11:44 Prepared 11/02/21 11:44	11/05/21 13:50 Analyzed 11/03/21 11:42 11/03/21 11:42 11/03/21 11:42 Analyzed 11/03/21 11:42	Dil Fac

Client Sample ID: BH-2 (6)
Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 01:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 01:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 01:08	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 11:05	11/03/21 01:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 01:08	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 11:05	11/03/21 01:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				11/01/21 11:05	11/03/21 01:08	1

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1502-2

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Matrix: Solid

Lab Sample ID: 890-1502-2

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-2 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Method: 8021B -	Volatile Ord	anic Com	nounds (GC) ((Continued)	
Method. 002 1D	Volatile Oit	jaine com	poullus ($\circ\circ$	(Continueu)	

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98	70 - 130	11/01/21 11:05	11/03/21 01:08	1

Mothod	Total BTEX	Total B	TEV Ca	loulation
wetnoa:	TOTAL BIEN	Total 🗖		liculation

Analyte	Result	Qualifier	RL	MDL	Unit	כ	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg		_	11/08/21 17:11	1

1 1	Mothod:	8015 NM	Discol	Pango O	raaniee i		(CC)
1	vietilou.	OU 13 INIVI	- Diesei	Rallye C	n yanicə i	UNU	1001

Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg				11/05/21 13:50	1

Mothod: 904ED N	IM Discol	Dange Ore	raniaa /	DBO) /	CCI
Method: 8015B N	AIM - DIESEL	Range Oil	janicə (i		GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 12:43	1
(GRO)-C6-C10 Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 12:43	1
C10-C28)	.0.0		.0.0		99				·
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 12:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Juniogate	fortecovery Quantici	Lillits	770	.pui cu	Analyzea	Dii i uc
1-Chlorooctane	119	70 - 130	11/02/	/21 11:44	11/03/21 12:43	1
o-Terphenyl	131 S1+	70 - 130	11/02/	/21 11:44	11/03/21 12:43	1

 ${\bf Method:\ 300.0\ -\ Anions,\ lon\ Chromatography\ -\ Soluble}$

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	235	5.04	mg/Kg			11/06/21 06:09	1

Client Sample ID: BH-3 (6)

Date Collected: 10/27/21 00:00

Lab Sample ID: 890-1502-3

Matrix: Solid

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Mathadi 0004D	Valatile Overen	ic Compounds (GC)
Memoo: Auzib	- voianie Urdan	ic Compounds (GC)

wethod: 8021B - volatile Orga	nic Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 01:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 01:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 01:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 11:05	11/03/21 01:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 01:28	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 11:05	11/03/21 01:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				11/01/21 11:05	11/03/21 01:28	1
1,4-Difluorobenzene (Surr)	70		70 - 130				11/01/21 11:05	11/03/21 01:28	1

Mothod:	Total RTF	Y - Total R	TFX Calculatio	n

Analyte	Result	Qualifier	RL	MDL	Unit	0)	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399		ma/Ka				11/08/21 17:11	1

Analyte	•	•	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH			<50.0	U	50.0		mg/Kg			11/05/21 13:50	1

Eurofins Xenco, Carlsbad

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Lab Sample ID: 890-1502-3

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-3 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		11/02/21 11:44	11/03/21 13:03	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/02/21 11:44	11/03/21 13:03	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/21 11:44	11/03/21 13:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				11/02/21 11:44	11/03/21 13:03	1
o-Terphenyl	117		70 - 130				11/02/21 11:44	11/03/21 13:03	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
			DI.	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	RL	MDL	Ullit	U	Prepareu	Allalyzeu	Dil Fac

Client Sample ID: BH-4 (6)

Date Collected: 10/27/21 00:00

Matrix: Solid

Date Received: 10/29/21 12:45

Date (Cecivea: 10/25/21 12:40

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 01:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 01:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 01:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 11:05	11/03/21 01:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 01:49	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 11:05	11/03/21 01:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				11/01/21 11:05	11/03/21 01:49	1
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130				11/01/21 11:05	11/03/21 01:49	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/08/21 17:11	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/02/21 11:44	11/03/21 13:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/02/21 11:44	11/03/21 13:23	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/21 11:44	11/03/21 13:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				11/02/21 11:44	11/03/21 13:23	1
o-Terphenyl	125		70 - 130				11/02/21 11:44	11/03/21 13:23	1

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Lab Sample ID: 890-1502-4

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-4 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.9		5.05		mg/Kg			11/08/21 09:05	1

Client Sample ID: BH-5 (6)

Date Collected: 10/27/21 00:00

Matrix: Solid

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00202	U	0.00202		mg/Kg		11/01/21 11:05	11/03/21 02:09	
Toluene	<0.00202	U	0.00202		mg/Kg		11/01/21 11:05	11/03/21 02:09	
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/01/21 11:05	11/03/21 02:09	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/01/21 11:05	11/03/21 02:09	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/01/21 11:05	11/03/21 02:09	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/01/21 11:05	11/03/21 02:09	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130				11/01/21 11:05	11/03/21 02:09	1
1,4-Difluorobenzene (Surr)	97		70 - 130				11/01/21 11:05	11/03/21 02:09	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			11/08/21 17:11	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	51.5		49.8		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/02/21 11:44	11/03/21 13:43	1
Diesel Range Organics (Over C10-C28)	51.5		49.8		mg/Kg		11/02/21 11:44	11/03/21 13:43	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/02/21 11:44	11/03/21 13:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				11/02/21 11:44	11/03/21 13:43	1
o-Terphenyl	117		70 - 130				11/02/21 11:44	11/03/21 13:43	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride			4.97		mg/Kg			11/07/21 05:30	

Released to Imaging: 9/1/2023 2:55:43 PM

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Lab Sample ID: 890-1502-6

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-6 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 02:29	
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 02:29	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 02:29	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 11:05	11/03/21 02:29	
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 02:29	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 11:05	11/03/21 02:29	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130				11/01/21 11:05	11/03/21 02:29	
1,4-Difluorobenzene (Surr)	104		70 - 130				11/01/21 11:05	11/03/21 02:29	
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/08/21 17:11	
Analyte Total TPH	<50.0	Qualifier U	RL 50.0		mg/Kg	D	Prepared	Analyzed 11/05/21 13:50	Dil Fa
			50.0		ilig/Kg			11/05/21 15.50	
Method: 8015B NM - Diesel Rang									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		11/02/21 11:44	11/03/21 14:03	
(GRO)-C6-C10 Diesel Range Organics (Over	<50.0	П	50.0		mg/Kg		11/02/21 11:44	11/03/21 14:03	
C10-C28)	-00.0	J	00.0		mgritg		11702721 11.11	11/00/21 11:00	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/21 11:44	11/03/21 14:03	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	111		70 - 130				11/02/21 11:44	11/03/21 14:03	
o-Terphenyl	123		70 - 130				11/02/21 11:44	11/03/21 14:03	
Method: 300.0 - Anions, Ion Chro	0								
Analyte	Result	Qualifier	RL 4.95	MDL	Unit mg/Kg	D	Prepared	Analyzed	Dil Fa

Client Sample ID: BH-7 (6)
Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 02:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 02:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 02:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 11:05	11/03/21 02:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 02:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 11:05	11/03/21 02:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				11/01/21 11:05	11/03/21 02:50	1

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Lab Sample ID: 890-1502-7

Matrix: Solid

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Lab Sample ID: 890-1502-7

Lab Sample ID: 890-1502-8

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-7 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Method: 8021B - Volatile Organic Compounds	(GC) (Continued)
Method. 002 1D - Volatile Organic Compounds	(OO) (Oolillillided)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97	70 - 130	11/01/21 11:05	11/03/21 02:50	1

Mothod	Total BTEX	Total B	TEV Ca	loulation
wetnoa:	TOTAL BIEN	Total 🗖		liculation

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			11/08/21 17:11	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/05/21 13:50	1

Method: 8015B	NM - Diesel	Range Ord	anics i	(DRO)	(GC)
Mictiliou. 00 10D	ITIN - DICSCI	italige Oig	Julii Co	(DIXO)	100)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/02/21 11:44	11/03/21 14:23	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/02/21 11:44	11/03/21 14:23	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/02/21 11:44	11/03/21 14:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surroyate	70Necovery	Quanner	Lillits		rrepareu	Allalyzeu	DII Fac
1-Chlorooctane	103		70 - 130	_	11/02/21 11:44	11/03/21 14:23	1
o-Terphenyl	115		70 - 130		11/02/21 11:44	11/03/21 14:23	1
_							

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	546		5.00		mg/Kg			11/07/21 05:59	1

Client Sample ID: BH-8 (6)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 6

Method: 8021B -	. Volatila	Organic (Compounds	(GC)

Wethou. 002 ID - Volatile Orga	ine compounds ((00)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/01/21 11:05	11/03/21 03:10	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 11:05	11/03/21 03:10	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 11:05	11/03/21 03:10	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/21 11:05	11/03/21 03:10	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/21 11:05	11/03/21 03:10	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/21 11:05	11/03/21 03:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130				11/01/21 11:05	11/03/21 03:10	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130				11/01/21 11:05	11/03/21 03:10	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130				11/01/21 11:05	11/03/21 03:10	

Mothod:	Total RT	Y - Total I	RTEY Ca	lculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00402	U	0.00402		ma/Ka		·	11/08/21 17:11	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/05/21 13:50	1

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Lab Sample ID: 890-1502-8

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-8 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		11/02/21 11:44	11/03/21 14:43	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/02/21 11:44	11/03/21 14:43	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/21 11:44	11/03/21 14:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				11/02/21 11:44	11/03/21 14:43	1
o-Terphenyl	117		70 - 130				11/02/21 11:44	11/03/21 14:43	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1990		24.9	•	mg/Kg			11/07/21 06:07	5

Client Sample ID: BH-9 (6) Lab Sample ID: 890-1502-9 Date Collected: 10/27/21 00:00 Matrix: Solid

Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 03:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 03:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 03:31	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/01/21 11:05	11/03/21 03:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 03:31	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/01/21 11:05	11/03/21 03:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130				11/01/21 11:05	11/03/21 03:31	1
1,4-Difluorobenzene (Surr)	93		70 - 130				11/01/21 11:05	11/03/21 03:31	1
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/08/21 17:11	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 15:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 15:03	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 15:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				11/02/21 11:44	11/03/21 15:03	1
o-Terphenyl	122		70 ₋ 130				11/02/21 11:44	11/03/21 15:03	1

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11/10/2021

Job ID: 890-1502-1 SDG: 212C-MD-02230

Client Sample ID: BH-9 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Lab Sample ID: 890-1502-9

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	1980		25.0		mg/Kg			11/07/21 06:14	5	

Client Sample ID: BH-10 (6)

Date Collected: 10/27/21 00:00

Lab Sample ID: 890-1502-10

Matrix: Solid

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Surrogate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/01/21 11:05	11/03/21 03:51	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 11:05	11/03/21 03:51	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 11:05	11/03/21 03:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/21 11:05	11/03/21 03:51	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/21 11:05	11/03/21 03:51	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/21 11:05	11/03/21 03:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130				11/01/21 11:05	11/03/21 03:51	1
1,4-Difluorobenzene (Surr)	105		70 - 130				11/01/21 11:05	11/03/21 03:51	1
- Method: Total BTEX - Total BT	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Total BTEX -	<0.00402	U	0.00402		mg/Kg			11/08/21 17:11	1
- Method: 8015 NM - Diesel Range C	rganics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Range Analyte	•								
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	Qualifier U	— RL 49.9	MDL	Unit mg/Kg	D	Prepared 11/02/21 11:44	Analyzed 11/03/21 15:23	Dil Fac
		U		MDL		<u>D</u>			Dil Fac 1

1-Chlorooctane	106		70 - 130	11/02/21 11:44	11/03/21 15:23	1
o-Terphenyl	118		70 - 130	11/02/21 11:44	11/03/21 15:23	1
Mothod: 200 0 Anions Ion Chrom	otography (Colubia				

Limits

%Recovery Qualifier

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	1500		24.9		mg/Kg			11/07/21 06:36	5

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Analyzed

Prepared

Dil Fac

Lab Sample ID: 890-1502-11

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-11 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 05:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 05:13	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 05:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 11:05	11/03/21 05:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 05:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 11:05	11/03/21 05:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				11/01/21 11:05	11/03/21 05:13	1
1,4-Difluorobenzene (Surr)	76		70 - 130				11/01/21 11:05	11/03/21 05:13	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mothod: 9015 NM Diocal Panga	Organics (DD	O) (GC)							
Method: 8015 NM - Diesel Range Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 16:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 16:02	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 16:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				11/02/21 11:44	11/03/21 16:02	1
o-Terphenyl	123		70 - 130				11/02/21 11:44	11/03/21 16:02	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
		O 11.C		MADI	1114		Danamana	A II	B.: E
Analyte	Result	Qualifier	RL 4.95	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH-12 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 05:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 05:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 05:34	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/01/21 11:05	11/03/21 05:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 05:34	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/01/21 11:05	11/03/21 05:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130				11/01/21 11:05	11/03/21 05:34	

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1502-12

Matrix: Solid

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

Lab Sample ID: 890-1502-12

Matrix: Solid

Client Sample ID: BH-12 (6) Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 6

Method: 8021B -	Volatile Ord	anic Com	nounds (GC) ((Continued)	
Method. 002 1D	Volatile Oit	jaine com	poullus ($\circ\circ$	(Continueu)	

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98	70 - 130	11/01/21 11:05	11/03/21 05:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			11/08/21 17:11	1

Method: 8015 NM - Diesel Range Organics (DRO) (
Method: 8015 NM = Diesel Rande Ordanics (DRO) (Made al. COAT NIM Diag		: (DDO) (OO)
	Wetnoo: 8015 NW - Dies	iei Kande Ordani	ICS (IJKU) (GU)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg]		11/05/21 13:50	1

			_		
	Method: 8015B NM -	. Niosal Rango	Organice	(DRO) ((GC)
ı	MICHIGA. OUTOD MINI	Dicaci italige	Organics	(0110)	(00)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 16:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 16:22	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 16:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	70Necovery	Qualifier	Lillits	rrepareu	Allalyzeu	DII Fac
1-Chlorooctane	104		70 - 130	11/02/21 11:44	11/03/21 16:22	1
o-Terphenyl	112		70 - 130	11/02/21 11:44	11/03/21 16:22	1
_						

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1170		4.95		mg/Kg		•	11/07/21 06:51	1

Client Sample ID: BH-13 (6)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 6

Method: 8021B -	Volatile Organic	c Compounds (GC)

motification volutile orga	ino compoundo ((33)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 05:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 05:54	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 05:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 11:05	11/03/21 05:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 05:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 11:05	11/03/21 05:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				11/01/21 11:05	11/03/21 05:54	1
1,4-Difluorobenzene (Surr)	96		70 - 130				11/01/21 11:05	11/03/21 05:54	1

Method: Tota	I RTFX - '	Total BTFX	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		ma/Ka			11/09/21 10:40	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			11/05/21 13:50	1

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1502-13

Matrix: Solid

Lab Sample ID: 890-1502-13

Lab Sample ID: 890-1502-14

Matrix: Solid

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-13 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 16:42	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 16:42	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 16:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				11/02/21 11:44	11/03/21 16:42	1
o-Terphenyl	116		70 - 130				11/02/21 11:44	11/03/21 16:42	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1370		25.2		mg/Kg			11/07/21 14:10	5

Client Sample ID: BH-14 (6)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 06:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 06:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 06:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 11:05	11/03/21 06:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 06:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 11:05	11/03/21 06:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130				11/01/21 11:05	11/03/21 06:15	1
1,4-Difluorobenzene (Surr)	95		70 - 130				11/01/21 11:05	11/03/21 06:15	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 17:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 17:02	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 17:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				11/02/21 11:44	11/03/21 17:02	1
o-Terphenyl	113		70 - 130				11/02/21 11:44	11/03/21 17:02	1

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11/10/2021

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

Client Sample ID: BH-14 (6)

Lab Sample ID: 890-1502-14

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45 Matrix: Solid

Sample Depth: 6

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4450		24.9		mg/Kg			11/07/21 07:06	5

Client Sample ID: BH-15 (6) Lab Sample ID: 890-1502-15

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Matrix: Solid

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 06:35	-
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 06:35	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 06:35	
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 11:05	11/03/21 06:35	· · · · · · · · ·
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 06:35	•
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 11:05	11/03/21 06:35	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130				11/01/21 11:05	11/03/21 06:35	
1,4-Difluorobenzene (Surr)	98		70 - 130				11/01/21 11:05	11/03/21 06:35	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/09/21 10:40	•
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/05/21 13:50	•
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/02/21 11:44	11/03/21 17:22	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/02/21 11:44	11/03/21 17:22	,
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/21 11:44	11/03/21 17:22	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	111		70 - 130				11/02/21 11:44	11/03/21 17:22	
o-Terphenyl	123		70 - 130				11/02/21 11:44	11/03/21 17:22	
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac

11/07/21 07:13

25.0

mg/Kg

4220 F1

Chloride

Lab Sample ID: 890-1502-16

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-16 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/01/21 11:05	11/03/21 06:55	
Toluene	<0.00202	U	0.00202		mg/Kg		11/01/21 11:05	11/03/21 06:55	•
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/01/21 11:05	11/03/21 06:55	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/01/21 11:05	11/03/21 06:55	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/01/21 11:05	11/03/21 06:55	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/01/21 11:05	11/03/21 06:55	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				11/01/21 11:05	11/03/21 06:55	1
1,4-Difluorobenzene (Surr)	82		70 - 130				11/01/21 11:05	11/03/21 06:55	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			11/09/21 10:40	1
Analyte		Qualifier							
· ······ · · · · · · · · · · · · · · ·	Result	Qualifici	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8		49.8	MDL	mg/Kg	— Б	Prepared	Analyzed 11/05/21 13:50	
Total TPH Method: 8015B NM - Diesel Range	<49.8 ge Organics (D	U (GC)	49.8		mg/Kg	<u> </u>	· ·	11/05/21 13:50	1
Total TPH Method: 8015B NM - Diesel Ran Analyte	<49.8 ge Organics (D	RO) (GC) Qualifier	49.8		mg/Kg	D	Prepared	11/05/21 13:50 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Range	<49.8 ge Organics (D	RO) (GC) Qualifier	49.8		mg/Kg	<u> </u>	· ·	11/05/21 13:50	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<49.8 ge Organics (D	RO) (GC) Qualifier	49.8		mg/Kg	<u> </u>	Prepared	11/05/21 13:50 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.8 ge Organics (Di Result <49.8	U RO) (GC) Qualifier U	49.8 RL 49.8		mg/Kg Unit mg/Kg	<u> </u>	Prepared 11/02/21 11:44	11/05/21 13:50 Analyzed 11/03/21 17:42	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.8 ge Organics (Di Result <49.8 <49.8	U RO) (GC) Qualifier U U	49.8 RL 49.8 49.8		mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 11/02/21 11:44 11/02/21 11:44	11/05/21 13:50 Analyzed 11/03/21 17:42 11/03/21 17:42	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.8 ge Organics (Di Result <49.8 <49.8 <49.8	U RO) (GC) Qualifier U U	49.8 RL 49.8 49.8 49.8		mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 11/02/21 11:44 11/02/21 11:44	Analyzed 11/03/21 17:42 11/03/21 17:42 11/03/21 17:42	Dil Fac
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.8 ge Organics (D) Result <49.8 <49.8 <49.8 %Recovery	U RO) (GC) Qualifier U U	49.8 RL 49.8 49.8 49.8 Limits		mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 11/02/21 11:44 11/02/21 11:44 11/02/21 11:44 Prepared	Analyzed 11/03/21 17:42 11/03/21 17:42 11/03/21 17:42 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.8 ge Organics (D) Result <49.8 <49.8 <49.8 %Recovery 100 113	U RO) (GC) Qualifier U U Qualifier	49.8 49.8 49.8 49.8 49.8 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 11/02/21 11:44 11/02/21 11:44 11/02/21 11:44 Prepared 11/02/21 11:44	11/05/21 13:50 Analyzed 11/03/21 17:42 11/03/21 17:42 11/03/21 17:42 Analyzed 11/03/21 17:42	Dil Fac
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	49.8 ge Organics (D) Result <49.8 <49.8 <49.8 <8ecovery 100 113 omatography -	U RO) (GC) Qualifier U U Qualifier	49.8 49.8 49.8 49.8 49.8 Limits 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 11/02/21 11:44 11/02/21 11:44 11/02/21 11:44 Prepared 11/02/21 11:44	11/05/21 13:50 Analyzed 11/03/21 17:42 11/03/21 17:42 11/03/21 17:42 Analyzed 11/03/21 17:42	Dil Face Dil Face Dil Face Dil Face Dil Face Dil Face

Client Sample ID: BH-17 (6)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 07:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 07:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 07:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 11:05	11/03/21 07:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 07:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 11:05	11/03/21 07:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				11/01/21 11:05	11/03/21 07:16	1

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Lab Sample ID: 890-1502-17

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4

7

10

12

13

Matrix: Solid

Lab Sample ID: 890-1502-17

Lab Sample ID: 890-1502-18

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-17 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Method: 8021B - Volatile Or	ganic Compounds	(GC) (Continued)
Michigal COLID Volume Of	gaine compounds	(GG) (GG) (GG)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98	70 - 130	11/01/21 11:05	11/03/21 07:16	1

Mothod	Total BTEX	Total B	TEV Ca	loulation
wetnoa:	TOTAL BIEN	Total 🗖		liculation

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398		0.00398		mg/Kg			11/09/21 10:40	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1

Mothod: 904ED N	IM Discol	Dange Ore	raniaa /	DBO) /	CCI
Method: 8015B N	AIM - DIESEL	Range Oil	janicə (i		GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 18:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 18:03	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 18:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surroyate	/orecovery	Qualifier	Lillits	riepaieu	Allalyzeu	DII Fac
1-Chlorooctane	102		70 - 130	11/02/21 11:44	11/03/21 18:03	1
o-Terphenyl	113		70 - 130	11/02/21 11:44	11/03/21 18:03	1
_						

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3350	25.3	mg/Kg			11/07/21 07:43	5

Client Sample ID: BH-18 (6)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 6

Method: 8021B -	Volatile	Organic (Compounds (GC)	

mountain colling and and and and									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/01/21 11:05	11/03/21 07:36	1
Toluene	<0.00201	U	0.00201	1	mg/Kg		11/01/21 11:05	11/03/21 07:36	1
Ethylbenzene	<0.00201	U	0.00201	I	mg/Kg		11/01/21 11:05	11/03/21 07:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/21 11:05	11/03/21 07:36	1
o-Xylene	<0.00201	U	0.00201	I	mg/Kg		11/01/21 11:05	11/03/21 07:36	1
Xylenes, Total	<0.00402	U	0.00402	1	mg/Kg		11/01/21 11:05	11/03/21 07:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				11/01/21 11:05	11/03/21 07:36	1
1,4-Difluorobenzene (Surr)	98		70 - 130				11/01/21 11:05	11/03/21 07:36	1

Mothod:	Total RTFX	- Total RTFX	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/09/21 10:40	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			11/05/21 13:50	1

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Lab Sample ID: 890-1502-18

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-18 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 18:22	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 18:22	•
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 18:22	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	100		70 - 130				11/02/21 11:44	11/03/21 18:22	
o-Terphenyl	107		70 - 130				11/02/21 11:44	11/03/21 18:22	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2390		24.9		mg/Kg			11/07/21 08:05	5

Client Sample ID: BH-19 (6) Lab Sample ID: 890-1502-19 Matrix: Solid

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 07:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 07:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 07:57	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/01/21 11:05	11/03/21 07:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 07:57	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/01/21 11:05	11/03/21 07:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				11/01/21 11:05	11/03/21 07:57	1
1,4-Difluorobenzene (Surr)	81		70 - 130				11/01/21 11:05	11/03/21 07:57	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/09/21 10:40	1
Mothed: 2045 NM Discal Danse	Ormaniaa (DD	0) (00)							
Method: 8015 NM - Diesel Range			DI	MDI	Unit	D	Propared	Analyzad	Dil Eac
Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
_		Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/05/21 13:50	Dil Fac
Analyte	Result <49.9	Qualifier U		MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result <49.9	Qualifier U		MDL MDL	mg/Kg	<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <49.9	Qualifier U RO) (GC) Qualifier	49.9		mg/Kg			11/05/21 13:50	1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <49.9 ge Organics (D Result	Qualifier U RO) (GC) Qualifier U	49.9		mg/Kg		Prepared	11/05/21 13:50 Analyzed	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9 ge Organics (D Result <49.9	Qualifier U RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 11/02/21 11:44	11/05/21 13:50 Analyzed 11/03/21 18:42	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 ge Organics (D Result <49.9	Qualifier U RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 11/02/21 11:44	11/05/21 13:50 Analyzed 11/03/21 18:42	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/02/21 11:44 11/02/21 11:44	11/05/21 13:50 Analyzed 11/03/21 18:42 11/03/21 18:42	1 Dil Fac 1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/02/21 11:44 11/02/21 11:44 11/02/21 11:44	Analyzed 11/03/21 18:42 11/03/21 18:42 11/03/21 18:42	1 Dil Fac 1

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Lab Sample ID: 890-1502-19

Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-19 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Client: Tetra Tech, Inc.

Method: 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	2060		24.8		mg/Kg			11/07/21 08:13	5	

Lab Sample ID: 890-1502-20 Client Sample ID: BH-20 (6) Matrix: Solid

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 08:17	
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 08:17	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 08:17	
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/01/21 11:05	11/03/21 08:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 08:17	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/01/21 11:05	11/03/21 08:17	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				11/01/21 11:05	11/03/21 08:17	1
1,4-Difluorobenzene (Surr)	94		70 - 130				11/01/21 11:05	11/03/21 08:17	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	•								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/02/21 11:44	11/03/21 19:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/02/21 11:44	11/03/21 19:03	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/02/21 11:44	11/03/21 19:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	9	S1-	70 - 130				11/02/21 11:44	11/03/21 19:03	1
o-Terphenyl	10	S1-	70 - 130				11/02/21 11:44	11/03/21 19:03	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Released to Imaging: 9/1/2023 2:55:43 PM

Lab Sample ID: 890-1502-21

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-21 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U F1 F2	0.00202		mg/Kg		11/01/21 12:05	11/02/21 18:15	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:05	11/02/21 18:15	1
Ethylbenzene	<0.00202	U F1	0.00202		mg/Kg		11/01/21 12:05	11/02/21 18:15	1
m-Xylene & p-Xylene	<0.00403	U F1	0.00403		mg/Kg		11/01/21 12:05	11/02/21 18:15	1
o-Xylene	<0.00202	U F1	0.00202		mg/Kg		11/01/21 12:05	11/02/21 18:15	1
Xylenes, Total	<0.00403	U F1	0.00403		mg/Kg		11/01/21 12:05	11/02/21 18:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				11/01/21 12:05	11/02/21 18:15	1
1,4-Difluorobenzene (Surr)	72		70 - 130				11/01/21 12:05	11/02/21 18:15	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			11/09/21 10:40	1
Mathada 0045 NM - Diagal Danas	. Oi (DD	0) (00)							
Method: 8015 NM - Diesel Range Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH				- INDE			Порагса	Analyzea	Dii i ac
Total II II			499					11/05/21 13:50	1
- -		Ü	49.9		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Ran	ge Organics (D		49.9		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Ran Analyte			49.9 RL	MDL		D	Prepared	11/05/21 13:50 Analyzed	Dil Fac
Analyte Gasoline Range Organics		RO) (GC) Qualifier		MDL		<u>D</u>	Prepared 11/02/21 14:45		Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result	RO) (GC) Qualifier	RL	MDL	Unit	<u>D</u>		Analyzed	Dil Fac
	Result <49.9	RO) (GC) Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	11/02/21 14:45	Analyzed 11/03/21 11:27	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9	RO) (GC) Qualifier U	RL	MDL	Unit mg/Kg	<u>D</u>	11/02/21 14:45	Analyzed 11/03/21 11:27	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 <49.9	RO) (GC) Qualifier U	RL 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/02/21 14:45	Analyzed 11/03/21 11:27 11/03/21 11:27	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9 <49.9	RO) (GC) Qualifier U	RL 49.9 49.9 49.9	MDL	Unit mg/Kg mg/Kg	<u> </u>	11/02/21 14:45 11/02/21 14:45 11/02/21 14:45	Analyzed 11/03/21 11:27 11/03/21 11:27 11/03/21 11:27	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	RO) (GC) Qualifier U	RL 49.9 49.9 49.9 <i>Limits</i>	MDL	Unit mg/Kg mg/Kg	<u> </u>	11/02/21 14:45 11/02/21 14:45 11/02/21 14:45 Prepared	Analyzed 11/03/21 11:27 11/03/21 11:27 11/03/21 11:27 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	RO) (GC) Qualifier U U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/02/21 14:45 11/02/21 14:45 11/02/21 14:45 Prepared 11/02/21 14:45	Analyzed 11/03/21 11:27 11/03/21 11:27 11/03/21 11:27 Analyzed 11/03/21 11:27	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	RO) (GC) Qualifier U U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	11/02/21 14:45 11/02/21 14:45 11/02/21 14:45 Prepared 11/02/21 14:45	Analyzed 11/03/21 11:27 11/03/21 11:27 11/03/21 11:27 Analyzed 11/03/21 11:27	Dil Face 1 1 1 Dil Face

Client Sample ID: BH-22 (6)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:05	11/02/21 18:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:05	11/02/21 18:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:05	11/02/21 18:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:05	11/02/21 18:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:05	11/02/21 18:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:05	11/02/21 18:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130				11/01/21 12:05	11/02/21 18:35	1

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Lab Sample ID: 890-1502-22

Matrix: Solid

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Lab Sample ID: 890-1502-22

Lab Sample ID: 890-1502-23

Matrix: Solid

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-22 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Method: 8021B - Volatile Organic Compou	nds (GC) (Continued)
Welliou. 002 ID - Volatile Organic Compou	iluə (OO) (Oolillilu c u)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	98	70 - 130	11/01/21 12:05	11/02/21 18:35	1

Method: Tot	al BTEX - Tota	al BTEX Ca	alculation
mounou. Tot	u. D. L		aiouiutioii

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg	 		11/09/21 10:40	1

l .		
Mothod: 904E NM Dia	sel Range Organics (DRO) (GC)	١
INICITIOU. OUTS ININI - DIC	sei Kange Organics (DKO) (GC)	,

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg]		11/05/21 13:50	1

Method: 8015B NM - Diese	I Range Organics (D	RO) (GC)
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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 12:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 12:32	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 12:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

1-Chlorooctane	103	 70 - 130	
o-Terphenyl	117	70 - 130	

o-Terphenyl	117	70 - 130	11/02/21 14:45	11/03/21 12:32	1
1-Chlorooctane	103	70 - 130	11/02/21 14:45	11/03/21 12:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1220	4.96	mg/Kg		_	11/07/21 08:35	1

Client Sample ID: BH-23 (6)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 6

Method: 8021B -	Volatile Organ	ic Compounds	s (GC)
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		(/							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 18:56	1
Toluene	<0.00200	U	0.00200	1	mg/Kg		11/01/21 12:05	11/02/21 18:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 18:56	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/01/21 12:05	11/02/21 18:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 18:56	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/01/21 12:05	11/02/21 18:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				11/01/21 12:05	11/02/21 18:56	1
1,4-Difluorobenzene (Surr)	100		70 - 130				11/01/21 12:05	11/02/21 18:56	1

Mothod:	Total RTF	Y - Total R	TFX Calculatio	n

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg		_	11/09/21 10:40	1

Analyte	•	•	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH			<50.0	U	50.0		mg/Kg			11/05/21 13:50	1

Eurofins Xenco, Carlsbad

Matrix: Solid

Lab Sample ID: 890-1502-23

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-23 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/02/21 14:45	11/03/21 12:53	1
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/02/21 14:45	11/03/21 12:53	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/21 14:45	11/03/21 12:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				11/02/21 14:45	11/03/21 12:53	1
o-Terphenyl	106		70 - 130				11/02/21 14:45	11/03/21 12:53	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
					mg/Kg			11/07/21 08:42	

Client Sample ID: BH-24 (6) Lab Sample ID: 890-1502-24

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 19:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 19:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 19:16	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/01/21 12:05	11/02/21 19:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 19:16	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/01/21 12:05	11/02/21 19:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				11/01/21 12:05	11/02/21 19:16	1
1,4-Difluorobenzene (Surr)	96		70 - 130				11/01/21 12:05	11/02/21 19:16	1
Method: Total BTEX - Total BTE	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/02/21 14:45	11/03/21 13:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/02/21 14:45	11/03/21 13:14	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/21 14:45	11/03/21 13:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				11/02/21 14:45	11/03/21 13:14	1
o-Terphenyl	123		70 - 130				11/02/21 14:45	11/03/21 13:14	1

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Lab Sample ID: 890-1502-24

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-24 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Method: 300.0 - Anions, Ion Chromatography - Soluble											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	107		4.97		mg/Kg			11/07/21 08:49	1		

Client Sample ID: BH-25 (15) Lab Sample ID: 890-1502-25 Matrix: Solid

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/02/21 19:37	
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/02/21 19:37	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/02/21 19:37	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/21 12:05	11/02/21 19:37	
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/02/21 19:37	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/21 12:05	11/02/21 19:37	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	122		70 - 130				11/01/21 12:05	11/02/21 19:37	
1,4-Difluorobenzene (Surr)	97		70 - 130				11/01/21 12:05	11/02/21 19:37	
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/09/21 10:40	
Method: 8015 NM - Diesel Range	e Organics (DR)	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.8	U	49.8		mg/Kg			11/05/21 13:50	
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)							
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/02/21 14:45	11/03/21 13:36	
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/02/21 14:45	11/03/21 13:36	
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/02/21 14:45	11/03/21 13:36	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane			70 - 130				11/02/21 14:45	11/03/21 13:36	
o-Terphenyl	122		70 - 130				11/02/21 14:45	11/03/21 13:36	
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble							
Method: 300.0 - Anions, Ion Chr Analyte	•	Soluble Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa

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Lab Sample ID: 890-1502-26

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-26 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:05	11/02/21 19:57	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:05	11/02/21 19:57	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:05	11/02/21 19:57	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		11/01/21 12:05	11/02/21 19:57	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:05	11/02/21 19:57	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/01/21 12:05	11/02/21 19:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				11/01/21 12:05	11/02/21 19:57	1
1,4-Difluorobenzene (Surr)	107		70 - 130				11/01/21 12:05	11/02/21 19:57	1
- Method: Total BTEX - Total BTE)	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/05/21 13:50	1
- Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/02/21 14:45	11/03/21 13:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/02/21 14:45	11/03/21 13:57	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/21 14:45	11/03/21 13:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				11/02/21 14:45	11/03/21 13:57	1
o-Terphenyl	119		70 - 130				11/02/21 14:45	11/03/21 13:57	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH-27 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 20:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 20:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 20:17	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/01/21 12:05	11/02/21 20:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 20:17	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/01/21 12:05	11/02/21 20:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				11/01/21 12:05	11/02/21 20:17	

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Lab Sample ID: 890-1502-27

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

Lab Sample ID: 890-1502-27

Lab Sample ID: 890-1502-28

Matrix: Solid

Matrix: Solid

Client Sample ID: BH-27 (15) Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45 Sample Depth: 15

Method: 8021B - Volatile Or	ganic Compounds	(GC) (Continued)
Michigal COLID Volume Of	gaine compounds	(GG) (GG) (GG)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	85	70 - 130	11/01/21 12:05	11/02/21 20:17	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg		_	11/09/21 10:40	1

ſ		
ı	Method: 8015 NM - Diesel Range Organics (DRO) (0	CO

Analyte	Result	Qualifier	RL	MDL	Unit	D	F	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg				11/05/21 13:50	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/02/21 14:45	11/03/21 14:18	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/02/21 14:45	11/03/21 14:18	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/02/21 14:45	11/03/21 14:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105	70 - 130	11/02/21 14:45	11/03/21 14:18	1
o-Terphenyl	120	70 - 130	11/02/21 14:45	11/03/21 14:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Chloride	372		4.98		mg/Kg			11/07/21 10:18	1

Client Sample ID: BH-28 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Mothod: 9021D	Volatile Organie	Compounds (GC)
I WIELIIOU. OUZ ID '	- voiatile Organic	Compounds (GC)

motification could be seen as a	, , , , , , , , , , , , , , , , , , , ,	()							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:05	11/02/21 20:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:05	11/02/21 20:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:05	11/02/21 20:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:05	11/02/21 20:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:05	11/02/21 20:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:05	11/02/21 20:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				11/01/21 12:05	11/02/21 20:38	1
1,4-Difluorobenzene (Surr)	104		70 - 130				11/01/21 12:05	11/02/21 20:38	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		ma/Ka			11/09/21 10:40	1

Analyte	•	•	Result	Qualifier	RL	MDL U	nit	D	Prepared	Analyzed	Dil Fac
Total TPH			<50.0	U	50.0	m	g/Kg		-	11/05/21 13:50	1

Lab Sample ID: 890-1502-28

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-28 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		11/02/21 14:45	11/03/21 14:39	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/02/21 14:45	11/03/21 14:39	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/21 14:45	11/03/21 14:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				11/02/21 14:45	11/03/21 14:39	1
o-Terphenyl	120		70 - 130				11/02/21 14:45	11/03/21 14:39	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	290		4.95		mg/Kg			11/07/21 10:26	

Client Sample ID: BH-29 (15) Lab Sample ID: 890-1502-29 Date Collected: 10/27/21 00:00 Matrix: Solid

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:05	11/02/21 20:58	
Toluene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:05	11/02/21 20:58	
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:05	11/02/21 20:58	
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/01/21 12:05	11/02/21 20:58	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:05	11/02/21 20:58	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/01/21 12:05	11/02/21 20:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				11/01/21 12:05	11/02/21 20:58	1
1,4-Difluorobenzene (Surr)	91		70 - 130				11/01/21 12:05	11/02/21 20:58	1
- Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			11/09/21 10:40	1
-									
⊡ Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
•	•	Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/05/21 13:50	Dil Fac
Analyte		Qualifier U		MDL		<u>D</u>	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <49.9 ge Organics (Di	Qualifier U		MDL	mg/Kg	<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <49.9 ge Organics (Di	Qualifier U RO) (GC) Qualifier	49.9		mg/Kg			11/05/21 13:50	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9 ge Organics (Di Result <49.9	Qualifier U RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 11/02/21 14:45	11/05/21 13:50 Analyzed 11/03/21 15:00	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 ge Organics (D	Qualifier U RO) (GC) Qualifier U	49.9		mg/Kg		Prepared	11/05/21 13:50 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9 ge Organics (Di Result <49.9	Qualifier U RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 11/02/21 14:45	11/05/21 13:50 Analyzed 11/03/21 15:00	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/02/21 14:45 11/02/21 14:45	11/05/21 13:50 Analyzed 11/03/21 15:00 11/03/21 15:00	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/02/21 14:45 11/02/21 14:45 11/02/21 14:45	Analyzed 11/03/21 15:00 11/03/21 15:00 11/03/21 15:00	

Lab Sample ID: 890-1502-29

Job ID: 890-1502-1 SDG: 212C-MD-02230

Client Sample ID: BH-29 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	139		4.97		mg/Kg			11/07/21 10:33	1

Client Sample ID: BH-30 (15)

Date Collected: 10/27/21 00:00

Matrix: Solid

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/02/21 21:19	
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/02/21 21:19	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/02/21 21:19	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/21 12:05	11/02/21 21:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/02/21 21:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/21 12:05	11/02/21 21:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130				11/01/21 12:05	11/02/21 21:19	1
1,4-Difluorobenzene (Surr)	70		70 - 130				11/01/21 12:05	11/02/21 21:19	1
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 15:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 15:21	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 15:21	1
							Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits				•	,u. y = u u	DII Fac
Surrogate 1-Chlorooctane	%Recovery	Qualifier	70 - 130				11/02/21 14:45	11/03/21 15:21	
1-Chlorooctane	115	Qualifier S1+					11/02/21 14:45 11/02/21 14:45		1
	115 136	S1+	70 - 130					11/03/21 15:21	
1-Chlorooctane o-Terphenyl	115 136 omatography -	S1+	70 - 130	MDL	Unit	D		11/03/21 15:21	1

Lab Sample ID: 890-1502-31

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-31 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:05	11/02/21 23:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:05	11/02/21 23:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:05	11/02/21 23:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:05	11/02/21 23:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:05	11/02/21 23:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:05	11/02/21 23:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				11/01/21 12:05	11/02/21 23:07	1
1,4-Difluorobenzene (Surr)	111		70 - 130				11/01/21 12:05	11/02/21 23:07	1
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX - -	<0.00398		0.00398		mg/Kg			11/09/21 10:40	
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 16:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 16:03	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 16:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				11/02/21 14:45	11/03/21 16:03	1
o-Terphenyl	123		70 - 130				11/02/21 14:45	11/03/21 16:03	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Pocult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allalyte	_ INCOUNT	Qualifici	4.99	14101	O I II C	=	Порагоа	Allalyzea	1

Client Sample ID: BH-32 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 23:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 23:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 23:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:05	11/02/21 23:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 23:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 12:05	11/02/21 23:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				11/01/21 12:05	11/02/21 23:28	1

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Lab Sample ID: 890-1502-32

Lab Sample ID: 890-1502-32

Lab Sample ID: 890-1502-33

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-32 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 8021B - Volatile Or	ganic Compounds	(GC) (Continued)
Michigal COLID Volume Of	gaine compounds	(GG) (GG) (GG)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	93	70 - 130	11/01/21 12:05	11/02/21 23:28	1

ı	Mothodi	Total DTEV	- Total BTEX	Coloulation
ı	wethou.	TOTAL DIEV	- IUIAI DIEA	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Р	repared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg				11/09/21 10:40	1

ı		
ı	Method: 8015 NM - Diesel Range Organics (DRO)	(CC)
ı	Method. 0013 NM - Diesel Kange Organics (DKO)	(00)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg]		11/05/21 13:50	1

		_			
Method: 8015B	NM - Diesel	Range Org	ranics ('DROL	GC
motriou. ou rob	THE DIGGOI	itunge or	garnoo (D. (U)	(–

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 16:24	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 16:24	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 16:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualitier	Limits	Prepared	Analyzea	DII Fa
1-Chlorooctane	123	70 - 130	11/02/21 14:45	11/03/21 16:24	
o-Terphenyl	150 S1+	70 - 130	11/02/21 14:45	11/03/21 16:24	

 $\label{eq:method:method:method:method:one} \textbf{Method: 300.0 - Anions, lon Chromatography - Soluble}$

Analyte	Result Qualifier	RL	MDL U	Jnit D	Prepared	Analyzed	Dil Fac
Chloride	833	5.00	m	ng/Kg		11/07/21 11:10	1

Client Sample ID: BH-33 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Motifica. Coz ID Volutilo Orga	ino compoundo ((00)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 23:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 23:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 23:48	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 12:05	11/02/21 23:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 23:48	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 12:05	11/02/21 23:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130				11/01/21 12:05	11/02/21 23:48	1
1,4-Difluorobenzene (Surr)	108		70 - 130				11/01/21 12:05	11/02/21 23:48	1

Method:	Total R	TFY - T	ntal RT	FX Calcu	ılation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399		ma/Ka			11/09/21 10:40	1

Method: 8015 NM - Dies	el Range Organics (DRO)	(GC)

Analyte	•	•	Result	Qualifier	RL	MDL	Unit	į	D	Prepared	Analyzed	Dil Fac
Total TPH			<49.9	U	49.9		mg/Kg				11/05/21 13:50	1

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Lab Sample ID: 890-1502-33

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-33 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 16:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 16:46	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 16:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				11/02/21 14:45	11/03/21 16:46	1
o-Terphenyl	133	S1+	70 - 130				11/02/21 14:45	11/03/21 16:46	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	504		5.01		mg/Kg			11/07/21 11:18	

Client Sample ID: BH-34 (15)

Date Collected: 10/27/21 00:00

Lab Sample ID: 890-1502-34

Matrix: Solid

Date Received: 10/29/21 12:45

Date Received. 10/25/21 12.4

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/03/21 00:09	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/03/21 00:09	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/03/21 00:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/21 12:05	11/03/21 00:09	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/03/21 00:09	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/21 12:05	11/03/21 00:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				11/01/21 12:05	11/03/21 00:09	1
1,4-Difluorobenzene (Surr)	100		70 - 130				11/01/21 12:05	11/03/21 00:09	1
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 17:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 17:07	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 17:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				11/02/21 14:45	11/03/21 17:07	1
	152	S1+	70 - 130				11/02/21 14:45	11/03/21 17:07	1

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

Client Sample ID: BH-34 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Lab Sample ID: 890-1502-34

Prepared

11/02/21 14:45

Analyzed

11/03/21 17:28

Matrix: Solid

Method: 300.0 - Anions, Ion Chror	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140		4.98		mg/Kg			11/07/21 11:25	1

Client Sample ID: BH-35 (15) Lab Sample ID: 890-1502-35 **Matrix: Solid**

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

(GRO)-C6-C10

Diesel Range Organics (Over

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/03/21 00:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/03/21 00:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/03/21 00:29	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/01/21 12:05	11/03/21 00:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/03/21 00:29	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/01/21 12:05	11/03/21 00:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				11/01/21 12:05	11/03/21 00:29	1
1,4-Difluorobenzene (Surr)	110		70 - 130				11/01/21 12:05	11/03/21 00:29	1

Iotal E	BIEX	<0.00401	U	0.00401		mg/Kg			11/09/21 10:40	1
Meth	od: 8015 NM - Diesel Rang	e Organics (DR	O) (GC)							
Analyt	te	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total T	TPH .	<50.0	U	50.0		mg/Kg			11/05/21 13:50	1
Meth	od: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)							
Analyt	te	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoli	ine Range Organics	<50.0	U	50.0		mg/Kg		11/02/21 14:45	11/03/21 17:28	1

C10-C28) OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	11/02/21 14:45	11/03/21 17:28	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130		11/02/21 14:45	11/03/21 17:28	1
o-Terphenyl	132	S1+	70 - 130		11/02/21 14:45	11/03/21 17:28	1

50.0

mg/Kg

<50.0 U

Method: 300.0 - Anions, Ion Chromato	graphy -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	333	F1	5.05		mg/Kg			11/07/21 11:33	1

Lab Sample ID: 890-1502-36

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-36 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/03/21 00:49	
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/03/21 00:49	•
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/03/21 00:49	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/21 12:05	11/03/21 00:49	
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/03/21 00:49	•
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/21 12:05	11/03/21 00:49	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	128		70 - 130				11/01/21 12:05	11/03/21 00:49	
1,4-Difluorobenzene (Surr)	109		70 - 130				11/01/21 12:05	11/03/21 00:49	1
- Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/09/21 10:40	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
			RL 49.8	MDL	mg/Kg	<u>D</u>	Prepared	Analyzed 11/05/21 13:50	
Total TPH	<49.8	U		MDL		<u>D</u>	Prepared		
Total TPH	<49.8 ge Organics (D	U				D	Prepared		
Total TPH Method: 8015B NM - Diesel Ran	<49.8 ge Organics (D	RO) (GC) Qualifier	49.8		mg/Kg		<u> </u>	11/05/21 13:50	Dil Fac
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	<49.8 ge Organics (D Result	RO) (GC) Qualifier	49.8		mg/Kg		Prepared	11/05/21 13:50 Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	qe Organics (D) Result <49.8	U RO) (GC) Qualifier U	49.8 RL 49.8		mg/Kg Unit mg/Kg		Prepared 11/02/21 14:45	11/05/21 13:50 Analyzed 11/03/21 17:49	Dil Fa
Method: 8015B NM - Diesel Randanalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.8 ge Organics (D) Result <49.8 <49.8	U RO) (GC) Qualifier U U	49.8 RL 49.8 49.8		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/02/21 14:45 11/02/21 14:45	11/05/21 13:50 Analyzed 11/03/21 17:49 11/03/21 17:49	Dil Fac
Method: 8015B NM - Diesel Randanalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.8 ge Organics (D) Result <49.8 <49.8 <49.8	U RO) (GC) Qualifier U U	49.8 RL 49.8 49.8 49.8		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/02/21 14:45 11/02/21 14:45 11/02/21 14:45	Analyzed 11/03/21 17:49 11/03/21 17:49 11/03/21 17:49	Dil Fac
Method: 8015B NM - Diesel Randanalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.8 ge Organics (D) Result <49.8 <49.8 <49.8 <49.8 %Recovery	U RO) (GC) Qualifier U U	49.8 RL 49.8 49.8 49.8 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/02/21 14:45 11/02/21 14:45 11/02/21 14:45 Prepared	Analyzed 11/03/21 17:49 11/03/21 17:49 11/03/21 17:49 Analyzed	Dil Fa
Method: 8015B NM - Diesel Randanalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.8 ge Organics (D) Result <49.8 <49.8 <49.8 <80 %Recovery 95 110	U RO) (GC) Qualifier U U Qualifier	49.8 49.8 49.8 49.8 49.8 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/02/21 14:45 11/02/21 14:45 11/02/21 14:45 Prepared 11/02/21 14:45	11/05/21 13:50 Analyzed 11/03/21 17:49 11/03/21 17:49 11/03/21 17:49 Analyzed 11/03/21 17:49	Dil Fac
Total TPH Method: 8015B NM - Diesel Randanalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	49.8 ge Organics (D) Result <49.8 <49.8 <49.8 <8ecovery 95 110 omatography -	U RO) (GC) Qualifier U U Qualifier	49.8 49.8 49.8 49.8 49.8 Limits 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg		Prepared 11/02/21 14:45 11/02/21 14:45 11/02/21 14:45 Prepared 11/02/21 14:45	11/05/21 13:50 Analyzed 11/03/21 17:49 11/03/21 17:49 11/03/21 17:49 Analyzed 11/03/21 17:49	Dil Fac

Client Sample ID: BH-37 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/03/21 01:10	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/03/21 01:10	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/03/21 01:10	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/21 12:05	11/03/21 01:10	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/03/21 01:10	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/21 12:05	11/03/21 01:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				11/01/21 12:05	11/03/21 01:10	1

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Lab Sample ID: 890-1502-37

Client Sample ID: BH-37 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Client: Tetra Tech, Inc.
Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

Lab Sample ID: 890-1502-37

Matrix: Solid

Sample Depth: 15

Method: 8021B - Volatile Organic Compounds	(GC) (Continued)
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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	101		70 - 130	11/01/21 12:05	11/03/21 01:10	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/09/21 10:40	1

Method: 8015 NM - Diesel Range Organic	s (DRO)	(GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1

Method: 8015B NM - Diese	I Range Organics	(DRO)	(GC)
moundar of ros run Sido	tungo organioo	()	1/

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 18:11	1
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 18:11	1
C10-C28) OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 18:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Anaryzea	DII Fac
1-Chlorooctane	95	70 - 130	11/02/21 14:45	11/03/21 18:11	1
o-Terphenyl	112	70 - 130	11/02/21 14:45	11/03/21 18:11	1
_					

$\label{eq:method: 300.0 - Anions, Ion Chromatography - Soluble} \\$

Analyte	Result Qual		MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4260	24.8	mg/Kg			11/07/21 12:02	5

Client Sample ID: BH-38 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Mothod: 9021D	Volatile Organie	Compounds (GC)
I WIELIIOU. OUZ ID '	- voiatile Organic	Compounds (GC)

	,							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/03/21 01:30	1
<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/03/21 01:30	1
<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/03/21 01:30	1
<0.00400	U	0.00400		mg/Kg		11/01/21 12:05	11/03/21 01:30	1
<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/03/21 01:30	1
<0.00400	U	0.00400		mg/Kg		11/01/21 12:05	11/03/21 01:30	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
129		70 - 130				11/01/21 12:05	11/03/21 01:30	1
118		70 - 130				11/01/21 12:05	11/03/21 01:30	1
	Result <0.00200 <0.00200 <0.00200 <0.00200 <0.00400 <0.00200 <0.00400 <0.00400 #Recovery 129		Result Qualifier RL	Result Qualifier RL MDL	Result Qualifier RL MDL Unit <0.00200	Result Qualifier RL MDL Unit D <0.00200	Result Qualifier RL MDL Unit D Prepared <0.00200	Result Qualifier RL MDL Unit D Prepared Analyzed <0.00200

Mothod:	Total RTF	Y - Total R	TFX Calculatio	n

Analyte	Result	Qualifier	KL	MDL	Unit	ו ט	repared	Analyzed	DII Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			11/09/21 10:40	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	87.2		49.9	mg/Kg			11/05/21 13:50	1

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Lab Sample ID: 890-1502-38

Matrix: Solid

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Matrix: Solid

Lab Sample ID: 890-1502-38

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-38 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 18:32	1
Diesel Range Organics (Over C10-C28)	87.2		49.9		mg/Kg		11/02/21 14:45	11/03/21 18:32	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 18:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				11/02/21 14:45	11/03/21 18:32	1
o-Terphenyl	117		70 - 130				11/02/21 14:45	11/03/21 18:32	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	2030		24.9		mg/Kg			11/07/21 12:25	5

Client Sample ID: BH-39 (15) Lab Sample ID: 890-1502-39

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/03/21 01:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/03/21 01:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/03/21 01:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 12:05	11/03/21 01:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/03/21 01:51	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 12:05	11/03/21 01:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				11/01/21 12:05	11/03/21 01:51	1
1,4-Difluorobenzene (Surr)	100		70 - 130				11/01/21 12:05	11/03/21 01:51	1
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DB)	0) (00)							
mourou. Ou to itim - Diesel Kallye	Organics (DR	U) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/05/21 13:50	Dil Fac
Analyte Total TPH	Result <49.9	Qualifier U		MDL		<u>D</u>	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <49.9 ge Organics (D	Qualifier U				<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <49.9 ge Organics (D	Qualifier U RO) (GC) Qualifier	49.9		mg/Kg			11/05/21 13:50	1 Dil Fac
Analyte	Result <49.9 ge Organics (D Result	Qualifier U RO) (GC) Qualifier U	49.9		mg/Kg		Prepared	11/05/21 13:50 Analyzed	1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 ge Organics (D Result <49.9	Qualifier U RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 11/02/21 14:45	11/05/21 13:50 Analyzed 11/03/21 18:53	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/02/21 14:45 11/02/21 14:45	11/05/21 13:50 Analyzed 11/03/21 18:53 11/03/21 18:53	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/02/21 14:45 11/02/21 14:45 11/02/21 14:45	Analyzed 11/03/21 18:53 11/03/21 18:53 11/03/21 18:53	1 Dil Fac 1 1

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Client: Tetra Tech, Inc.
Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

Client Sample ID: BH-39 (15)

Lab Sample ID: 890-1502-39

Matrix: Solid

Sample Depth: 15

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3300		25.0		mg/Kg			11/07/21 12:32	5

Client Sample ID: BH-40 (15)

Lab Sample ID: 890-1502-40

Date Collected: 10/27/21 00:00 Matrix: Solid

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/03/21 02:11	
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/03/21 02:11	•
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/03/21 02:11	
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 12:05	11/03/21 02:11	
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/03/21 02:11	•
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 12:05	11/03/21 02:11	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	115		70 - 130				11/01/21 12:05	11/03/21 02:11	
1,4-Difluorobenzene (Surr)	100		70 - 130				11/01/21 12:05	11/03/21 02:11	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/09/21 10:40	,
Method: 8015 NM - Diesel Range						_			
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/05/21 13:50	,
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/02/21 14:45	11/03/21 19:15	•
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/02/21 14:45	11/03/21 19:15	,
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/02/21 14:45	11/03/21 19:15	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	91		70 - 130				11/02/21 14:45	11/03/21 19:15	
o-Terphenyl	110		70 - 130				11/02/21 14:45	11/03/21 19:15	
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Pocult	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	- Nesuit	Qualifier	- KL	MIDE	UIIIL		Frepareu	Allalyzeu	DII Fat

Lab Sample ID: 890-1502-41

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-41 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F2 F1	0.00200		mg/Kg		11/01/21 12:11	11/04/21 02:19	1
Toluene	<0.00200	U F2 F1	0.00200		mg/Kg		11/01/21 12:11	11/04/21 02:19	1
Ethylbenzene	<0.00200	U F2 F1	0.00200		mg/Kg		11/01/21 12:11	11/04/21 02:19	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399		mg/Kg		11/01/21 12:11	11/04/21 02:19	1
o-Xylene	<0.00200	U F2 F1	0.00200		mg/Kg		11/01/21 12:11	11/04/21 02:19	1
Xylenes, Total	<0.00399	U F2 F1	0.00399		mg/Kg		11/01/21 12:11	11/04/21 02:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130				11/01/21 12:11	11/04/21 02:19	1
1,4-Difluorobenzene (Surr)	110		70 - 130				11/01/21 12:11	11/04/21 02:19	1
Method: Total BTEX - Total BTE	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/09/21 10:40	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH			RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/05/21 13:50	
<u> </u>	<49.9	U		MDL		<u>D</u>	Prepared		
Total TPH	<49.9 ge Organics (D	U				<u>D</u>	Prepared Prepared		1
Total TPH Method: 8015B NM - Diesel Rang	<49.9 ge Organics (D	RO) (GC) Qualifier	49.9		mg/Kg	=	<u> </u>	11/05/21 13:50	1 Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<49.9 ge Organics (D	RO) (GC) Qualifier	49.9		mg/Kg	=	Prepared	11/05/21 13:50 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.9 ge Organics (Dispersion Result <49.9	U RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg	=	Prepared 11/02/21 16:07	11/05/21 13:50 Analyzed 11/03/21 11:27	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9 ge Organics (Dispersion of the content of the cont	U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/02/21 16:07	11/05/21 13:50 Analyzed 11/03/21 11:27 11/03/21 11:27	1 Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 ge Organics (Display="2">Result <49.9 <49.9	U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/02/21 16:07 11/02/21 16:07	Analyzed 11/03/21 11:27 11/03/21 11:27 11/03/21 11:27	Dil Face 1 1 1 Dil Face
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.9 ge Organics (Display="2">Result <49.9 <49.9 <49.9 %Recovery	U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/02/21 16:07 11/02/21 16:07 11/02/21 16:07 Prepared	Analyzed 11/03/21 11:27 11/03/21 11:27 11/03/21 11:27 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.9 ge Organics (Display="2">Result <49.9 <49.9 <49.9 **Recovery <96 <95	U RO) (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/02/21 16:07 11/02/21 16:07 11/02/21 16:07 Prepared 11/02/21 16:07	Analyzed 11/03/21 11:27 11/03/21 11:27 11/03/21 11:27 Analyzed 11/03/21 11:27	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	49.9 ge Organics (D) Result <49.9 <49.9 <80 %Recovery 96 95 omatography -	U RO) (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/02/21 16:07 11/02/21 16:07 11/02/21 16:07 Prepared 11/02/21 16:07	Analyzed 11/03/21 11:27 11/03/21 11:27 11/03/21 11:27 Analyzed 11/03/21 11:27	Dil Fac 1 Dil Fac 1 1 Dil Fac 1 Dil Fac 1 Dil Fac

Client Sample ID: BH-42 (15)

Released to Imaging: 9/1/2023 2:55:43 PM

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 02:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 02:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 02:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:11	11/04/21 02:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 02:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 12:11	11/04/21 02:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				11/01/21 12:11	11/04/21 02:46	1

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1502-42

Lab Sample ID: 890-1502-42

11/02/21 16:07

Lab Sample ID: 890-1502-43

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-42 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 8021B - Volatile Organic Con	noounds (GC)	(Continued)
motifical collision of gains con	ipodiido (OO)	(Continuou,

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	198	S1+	70 - 130	11/01/21 12:11	11/04/21 02:46	1

Method:	Total BTEX	- Total BTEX	Calculation
welliou.	IUIAI DILA	- IUlai DILA	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			11/09/21 10:40	1

Mothod: 8015 NM - Diccol	Pango Organice (DPO) (CC)	

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg]		11/05/21 13:50	1

Method: 8015B NM - Diese	I Range Organics (D	RO) (GC)
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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 12:32	1
(GRO)-C6-C10 Diesel Range Organics (Over	<49.9	П	49.9		mg/Kg		11/02/21 16:07	11/03/21 12:32	1
C10-C28)	140.0	J	40.0		mg/rtg		11/02/21 10:07	11/00/21 12.02	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 12:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

1-Chlorooctane	101	70 - 130
o-Terphenyl	105	70 - 130

l	o-Terpnenyi	105	70 - 130			11/02/21 16:07	11/03/21 12:32	7
	Method: 300.0 - Anions, Ion Chromatogra	phy - Soluble						
-1		D 1/ O 1/0		MB1 11 1/	_			B.: E

Allalyte	Result Qualifier	KL	MDL UIII	U	Frepareu	Allalyzeu	DII Fac
Chloride	461	5.00	mg/Kg			11/07/21 12:54	1

Client Sample ID: BH-43 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:11	11/04/21 03:14	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:11	11/04/21 03:14	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:11	11/04/21 03:14	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/01/21 12:11	11/04/21 03:14	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:11	11/04/21 03:14	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/01/21 12:11	11/04/21 03:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				11/01/21 12:11	11/04/21 03:14	1
1,4-Difluorobenzene (Surr)	215	S1+	70 - 130				11/01/21 12:11	11/04/21 03:14	1

Method: Tot	al RTFY -	Total RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	כ	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00396	U	0.00396		ma/Ka			11/09/21 10:40	1

	Method: 8015 NM -	- Diesel Range	Organics	(DRO)	(GC)
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Analyte	•	•	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH			<50.0	U	50.0		mg/Kg			11/05/21 13:50	1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

Client Sample ID: BH-43 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Lab Sample ID: 890-1502-43

Matrix: Solid

Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		11/02/21 16:07	11/03/21 12:53	
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/02/21 16:07	11/03/21 12:53	•
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/21 16:07	11/03/21 12:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	94		70 - 130				11/02/21 16:07	11/03/21 12:53	
o-Terphenyl	93		70 - 130				11/02/21 16:07	11/03/21 12:53	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2440		24.9		mg/Kg			11/07/21 13:02	

Lab Sample ID: 890-1502-44 Client Sample ID: BH-44 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:11	11/04/21 03:41	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:11	11/04/21 03:41	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:11	11/04/21 03:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/21 12:11	11/04/21 03:41	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:11	11/04/21 03:41	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/21 12:11	11/04/21 03:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				11/01/21 12:11	11/04/21 03:41	1
1,4-Difluorobenzene (Surr)	211	S1+	70 - 130				11/01/21 12:11	11/04/21 03:41	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	je Organics (Di	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/02/21 16:07	11/03/21 13:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/02/21 16:07	11/03/21 13:14	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/21 16:07	11/03/21 13:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				11/02/21 16:07	11/03/21 13:14	1

Lab Sample ID: 890-1502-44

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-44 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	465		5.00		mg/Kg			11/07/21 13:09	1

Client Sample ID: BH-45 (15)

Date Collected: 10/27/21 00:00

Lab Sample ID: 890-1502-45

Matrix: Solid

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 04:08	
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 04:08	•
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 04:08	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 12:11	11/04/21 04:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 04:08	•
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 12:11	11/04/21 04:08	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	88		70 - 130				11/01/21 12:11	11/04/21 04:08	
1,4-Difluorobenzene (Surr)	203	S1+	70 - 130				11/01/21 12:11	11/04/21 04:08	1
· Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/02/21 16:07	11/03/21 13:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/02/21 16:07	11/03/21 13:36	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/02/21 16:07	11/03/21 13:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				11/02/21 16:07	11/03/21 13:36	1
o-Terphenyl	112		70 - 130				11/02/21 16:07	11/03/21 13:36	1
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	284	E4	4.95		mg/Kg	_		11/08/21 04:30	1

Lab Sample ID: 890-1502-46

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-46 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 04:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 04:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 04:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 12:11	11/04/21 04:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 04:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 12:11	11/04/21 04:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				11/01/21 12:11	11/04/21 04:35	1
1,4-Difluorobenzene (Surr)	226	S1+	70 - 130				11/01/21 12:11	11/04/21 04:35	1
Method: Total BTEX - Total BTE	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range	•		ъ.			_			5".5
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/02/21 16:07	11/03/21 13:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/02/21 16:07	11/03/21 13:57	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/21 16:07	11/03/21 13:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				11/02/21 16:07	11/03/21 13:57	1
o-Terphenyl	107		70 - 130				11/02/21 16:07	11/03/21 13:57	1
		O a laubila							
Method: 300.0 - Anions, Ion Chro									
Method: 300.0 - Anions, Ion Chro Analyte		Qualifier	RL	MDL	Unit mg/Kg	D	Prepared	Analyzed 11/08/21 04:53	Dil Fac

Client Sample ID: BH-47 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 05:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 05:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 05:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 12:11	11/04/21 05:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 05:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 12:11	11/04/21 05:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130				11/01/21 12:11	11/04/21 05:03	1

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1502-47

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

Lab Sample ID: 890-1502-47

Client Sample ID: BH-47 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

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				_	-			_		١

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	211	S1+	70 - 130	11/01/21 12:11	11/04/21 05:03	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	ma/Ka			11/09/21 10:40	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Method. 0013 Mill - Dieser Kange C	riganics (Dito) (GG)						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	49.8	ma/Ka			11/05/21 13:50	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/02/21 16:07	11/03/21 14:18	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/02/21 16:07	11/03/21 14:18	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/02/21 16:07	11/03/21 14:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98	70 - 130	11/02/21 16:07	7 11/03/21 14:18	1
o-Terphenyl	102	70 - 130	11/02/21 16:07	7 11/03/21 14:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	122		4.98		mg/Kg			11/08/21 05:00	1

Date Received: 10/29/21 12:45

Sample Depth: 15

Client Sample ID: BH-48 (15)	Lab Sample ID: 890-1502-48
Pate Collected: 10/27/21 00:00	Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

wethout ouz 16 - volatile Orga	inic Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:11	11/04/21 05:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:11	11/04/21 05:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:11	11/04/21 05:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:11	11/04/21 05:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:11	11/04/21 05:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:11	11/04/21 05:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				11/01/21 12:11	11/04/21 05:30	1
1,4-Difluorobenzene (Surr)	220	S1+	70 - 130				11/01/21 12:11	11/04/21 05:30	1
_									

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/09/21 10:40	1

ı	Method: 8015 NM - D	Anna lasai	Organics (DRO)	(GC)
ı	Method, outs MM - D	nesei Kange	Organics (DRU) ((GC)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	75.2		50.0	mg/Kg			11/05/21 13:50	1

Eurofins Xenco, Carlsbad

11/10/2021

Matrix: Solid

Lab Sample ID: 890-1502-48

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-48 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/02/21 16:07	11/03/21 14:39	1
Diesel Range Organics (Over C10-C28)	75.2		50.0		mg/Kg		11/02/21 16:07	11/03/21 14:39	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/21 16:07	11/03/21 14:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130				11/02/21 16:07	11/03/21 14:39	1
o-Terphenyl	111		70 - 130				11/02/21 16:07	11/03/21 14:39	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3050		24.9		mg/Kg			11/08/21 05:08	5

Lab Sample ID: 890-1502-49 Client Sample ID: BH-49 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:11	11/04/21 05:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:11	11/04/21 05:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:11	11/04/21 05:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:11	11/04/21 05:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:11	11/04/21 05:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:11	11/04/21 05:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				11/01/21 12:11	11/04/21 05:57	1
1,4-Difluorobenzene (Surr)	17	S1-	70 - 130				11/01/21 12:11	11/04/21 05:57	1
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Method: 8015 NM - Diesel Range Analyte		O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/05/21 13:50	Dil Fac
Analyte	Result <49.9	Qualifier U		MDL		<u>D</u>	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <49.9 ge Organics (D	Qualifier U		MDL	mg/Kg	<u>D</u>	Prepared Prepared		1
Analyte Total TPH	Result <49.9 ge Organics (D	Qualifier U RO) (GC) Qualifier	49.9		mg/Kg			11/05/21 13:50	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <49.9 ge Organics (D Result	Qualifier U RO) (GC) Qualifier U	49.9		mg/Kg		Prepared	11/05/21 13:50 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 ge Organics (D Result <49.9	Qualifier U RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 11/02/21 16:07	11/05/21 13:50 Analyzed 11/03/21 15:00	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/02/21 16:07	11/05/21 13:50 Analyzed 11/03/21 15:00 11/03/21 15:00	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 ge Organics (D Result <49.9 <49.9 <49.9	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/02/21 16:07 11/02/21 16:07	Analyzed 11/03/21 15:00 11/03/21 15:00 11/03/21 15:00	1 Dil Fac

Lab Sample ID: 890-1502-49

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-49 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 300.0 - Anions, Ion Chromatography - Soluble											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	472		4.95		mg/Kg			11/08/21 05:16	1		

Client Sample ID: BH-50 (15)

Date Collected: 10/27/21 00:00

Lab Sample ID: 890-1502-50

Matrix: Solid

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	0.0214		0.00198		mg/Kg		11/01/21 12:11	11/04/21 06:24	1
Toluene	0.0176		0.00198		mg/Kg		11/01/21 12:11	11/04/21 06:24	1
Ethylbenzene	0.00625		0.00198		mg/Kg		11/01/21 12:11	11/04/21 06:24	1
m-Xylene & p-Xylene	0.0231		0.00396		mg/Kg		11/01/21 12:11	11/04/21 06:24	1
o-Xylene	0.0350		0.00198		mg/Kg		11/01/21 12:11	11/04/21 06:24	1
Xylenes, Total	0.0581		0.00396		mg/Kg		11/01/21 12:11	11/04/21 06:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	11591	S1+	70 - 130				11/01/21 12:11	11/04/21 06:24	1
1,4-Difluorobenzene (Surr)	65	S1-	70 - 130				11/01/21 12:11	11/04/21 06:24	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.103		0.00396		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	•								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 15:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 15:21	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 15:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				11/02/21 16:07	11/03/21 15:21	1
o-Terphenyl	119		70 - 130				11/02/21 16:07	11/03/21 15:21	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1330		4.99		mg/Kg			11/08/21 05:39	

Lab Sample ID: 890-1502-51

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-51 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 08:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 08:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 08:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:11	11/04/21 08:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 08:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 12:11	11/04/21 08:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				11/01/21 12:11	11/04/21 08:10	1
1,4-Difluorobenzene (Surr)	199	S1+	70 - 130				11/01/21 12:11	11/04/21 08:10	1
- Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			11/09/21 10:40	1
Analyte	Result	Qualifier	RL	MDI	Unit	D			
			NL.	MIDL	Ollit	U	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	WIDE	mg/Kg		Prepared	Analyzed 11/05/21 13:50	
- -				MIDL			Prepared		Dil Fac
- -	ge Organics (D			MDL	mg/Kg	<u>D</u>	Prepared		
Method: 8015B NM - Diesel Ran Analyte	ge Organics (D	RO) (GC) Qualifier	49.9		mg/Kg	=	· ·	11/05/21 13:50	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (Di	RO) (GC) Qualifier	49.9		mg/Kg	=	Prepared	11/05/21 13:50 Analyzed	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D Result <49.9	RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg	=	Prepared 11/02/21 16:07	11/05/21 13:50 Analyzed 11/03/21 16:03	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (Di Result <49.9	RO) (GC) Qualifier U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/02/21 16:07	11/05/21 13:50 Analyzed 11/03/21 16:03 11/03/21 16:03	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D) Result <49.9 <49.9	RO) (GC) Qualifier U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/02/21 16:07 11/02/21 16:07	Analyzed 11/03/21 16:03 11/03/21 16:03 11/03/21 16:03	Dil Face 1 1 1 Dil Face
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	ge Organics (D) Result <49.9 <49.9 <49.9 %Recovery	RO) (GC) Qualifier U	49.9 RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/02/21 16:07 11/02/21 16:07 11/02/21 16:07 Prepared	Analyzed 11/03/21 16:03 11/03/21 16:03 11/03/21 16:03 Analyzed	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	ge Organics (D) Result <49.9 <49.9 <49.9 **Recovery 101 106	RO) (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/02/21 16:07 11/02/21 16:07 11/02/21 16:07 Prepared 11/02/21 16:07	Analyzed 11/03/21 16:03 11/03/21 16:03 11/03/21 16:03 Analyzed 11/03/21 16:03	1
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	ge Organics (D) Result <49.9 <49.9 <49.9 // MRecovery 101 106 omatography -	RO) (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg	=	Prepared 11/02/21 16:07 11/02/21 16:07 11/02/21 16:07 Prepared 11/02/21 16:07	Analyzed 11/03/21 16:03 11/03/21 16:03 11/03/21 16:03 Analyzed 11/03/21 16:03	Dil Fac

Client Sample ID: BH-52 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 08:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 08:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 08:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 12:11	11/04/21 08:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 08:36	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 12:11	11/04/21 08:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				11/01/21 12:11	11/04/21 08:36	

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Lab Sample ID: 890-1502-52

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Client Sample ID: BH-52 (15)

Date Collected: 10/27/21 00:00

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

Lab Sample ID: 890-1502-53

Matrix: Solid

Lab Sample ID: 890-1502-52

Matrix: Solid

Date Received: 10/29/21 12:45 Sample Depth: 15

Method: 8021B	- Volatile Ord	anic Com	oounds (GC) ((Continued)	
moundar our is	TOIGHT OF	Juino 001111	, ac (, ı	- on a out	

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	233	S1+	70 - 130	11/01/21 12:11	11/04/21 08:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	כ	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg		_	11/09/21 10:40	1

Method: 8015 NM	- Diesel Range	Organice	(DRO) (GC)

Analyte	Result (Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 l	U	49.9	mg/Kg		_	11/05/21 13:50	1

Method: 8015B	NM Discol	Dange Ore	aaniee (DD()) (CC)
MICHIOU. OU IOD	INIVI - DIESEI	Rallue Oli	ualiics lunc	JI (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 16:24	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 16:24	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 16:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	/ortecovery	Quanner	Lillits	rrepareu	Allalyzeu	D
1-Chlorooctane	101		70 - 130	11/02/21 16:07	11/03/21 16:24	
o-Terphenyl	103		70 - 130	11/02/21 16:07	11/03/21 16:24	

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
Chloride	1410		24.9		mg/Kg				11/08/21 05:54	5

Client Sample ID: BH-53 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Mothod: 9021D	Volatile Organie	Compounds (GC)
I WIELIIOU. OUZ ID '	- voiatile Organic	Compounds (GC)

		/							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/03/21 08:30	11/04/21 11:48	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/03/21 08:30	11/04/21 11:48	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/03/21 08:30	11/04/21 11:48	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/03/21 08:30	11/04/21 11:48	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/03/21 08:30	11/04/21 11:48	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/03/21 08:30	11/04/21 11:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				11/03/21 08:30	11/04/21 11:48	1
1,4-Difluorobenzene (Surr)	99		70 - 130				11/03/21 08:30	11/04/21 11:48	1

Mothod:	Total RTF	Y - Total R	TFX Calculatio	n

Analyte	Result	Qualifier	KL	MDL	Unit	U	Prepared	Analyzed	DII Fac
Total BTEX	<0.00403	U	0.00403	_	mg/Kg		_	11/09/21 10:40	1

Analyte	•	•	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH			<49.9	U	49.9	mg/			11/05/21 13:50	1

Lab Sample ID: 890-1502-53

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-53 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 16:46	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 16:46	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 16:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				11/02/21 16:07	11/03/21 16:46	1
o-Terphenyl	98		70 - 130				11/02/21 16:07	11/03/21 16:46	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH-54 (15) Lab Sample ID: 890-1502-54 Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 09:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 09:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 09:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:11	11/04/21 09:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 09:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 12:11	11/04/21 09:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				11/01/21 12:11	11/04/21 09:28	1
1,4-Difluorobenzene (Surr)	202	S1+	70 - 130				11/01/21 12:11	11/04/21 09:28	1
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 17:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 17:07	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 17:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				11/02/21 16:07	11/03/21 17:07	1
o-Terphenyl	100		70 - 130				11/02/21 16:07	11/03/21 17:07	1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

Client Sample ID: BH-54 (15)

Lab Sample ID: 890-1502-54

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45 Matrix: Solid

Sample Depth: 15

Method: 300.0 - Anions, Ion Chromato	graphy -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	508		5.01		mg/Kg			11/08/21 06:09	1

Client Sample ID: BH-55 (15) Lab Sample ID: 890-1502-55

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45 Matrix: Solid

Sample Depth: 15

Analyte	Pocult	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
				IVIDE					Dil Fac
Benzene	<0.00199		0.00199		mg/Kg		11/01/21 12:11	11/04/21 09:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:11	11/04/21 09:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:11	11/04/21 09:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:11	11/04/21 09:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:11	11/04/21 09:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:11	11/04/21 09:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				11/01/21 12:11	11/04/21 09:54	1
1,4-Difluorobenzene (Surr)	191	S1+	70 - 130				11/01/21 12:11	11/04/21 09:54	1
- Method: Total BTEX - Total B1	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Rar	nge Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	II	50.0		mg/Kg			11/05/21 13:50	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/02/21 16:07	11/03/21 17:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	I	mg/Kg		11/02/21 16:07	11/03/21 17:28	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	ı	mg/Kg		11/02/21 16:07	11/03/21 17:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				11/02/21 16:07	11/03/21 17:28	1
o-Terphenyl	99		70 ₋ 130				11/02/21 16:07	11/03/21 17:28	1

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4680	F1	24.9		mg/Kg			11/08/21 06:17	5

Lab Sample ID: 890-1502-56

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-56 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:11	11/04/21 10:20	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:11	11/04/21 10:20	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:11	11/04/21 10:20	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/01/21 12:11	11/04/21 10:20	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:11	11/04/21 10:20	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/01/21 12:11	11/04/21 10:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				11/01/21 12:11	11/04/21 10:20	1
1,4-Difluorobenzene (Surr)	115		70 - 130				11/01/21 12:11	11/04/21 10:20	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			11/09/21 10:40	1
		O) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH		Qualifier	RL 49.8	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/05/21 13:50	
	<49.8	Qualifier U		MDL		<u>D</u>	Prepared		
Total TPH	<49.8 ge Organics (D	Qualifier U				<u>D</u>	Prepared Prepared		1
Total TPH Method: 8015B NM - Diesel Ran	<49.8 ge Organics (D	Qualifier U RO) (GC) Qualifier	49.8		mg/Kg	=		11/05/21 13:50	1 Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<49.8 ge Organics (D	Qualifier U RO) (GC) Qualifier U	49.8		mg/Kg	=	Prepared	11/05/21 13:50 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.8 ge Organics (Di Result <49.8	Qualifier U RO) (GC) Qualifier U	49.8 RL 49.8		mg/Kg Unit mg/Kg	=	Prepared 11/02/21 16:07	11/05/21 13:50 Analyzed 11/03/21 17:49	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.8 ge Organics (Dispersion of the property of the	Qualifier U RO) (GC) Qualifier U U	49.8 RL 49.8 49.8		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/02/21 16:07	11/05/21 13:50 Analyzed 11/03/21 17:49 11/03/21 17:49	1 Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.8 ge Organics (D) Result <49.8 <49.8 <49.8	Qualifier U RO) (GC) Qualifier U U	49.8 RL 49.8 49.8 49.8		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/02/21 16:07 11/02/21 16:07	Analyzed 11/03/21 17:49 11/03/21 17:49 11/03/21 17:49	1 Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.8 ge Organics (D) Result <49.8 <49.8 <49.8 %Recovery	Qualifier U RO) (GC) Qualifier U U	49.8 RL 49.8 49.8 49.8 Limits		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/02/21 16:07 11/02/21 16:07 11/02/21 16:07 Prepared	Analyzed 11/03/21 17:49 11/03/21 17:49 11/03/21 17:49 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.8 ge Organics (D) Result <49.8 <49.8 <49.8 %Recovery 106 113	Qualifier U RO) (GC) Qualifier U U Qualifier	49.8 49.8 49.8 49.8 49.8 49.8 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/02/21 16:07 11/02/21 16:07 11/02/21 16:07 Prepared 11/02/21 16:07	11/05/21 13:50 Analyzed 11/03/21 17:49 11/03/21 17:49 Analyzed 11/03/21 17:49	Dil Fac 1 1 Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	49.8 ge Organics (D) Result <49.8 <49.8 <49.8 *Recovery 106 113 omatography -	Qualifier U RO) (GC) Qualifier U U Qualifier	49.8 49.8 49.8 49.8 49.8 49.8 Limits 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/02/21 16:07 11/02/21 16:07 11/02/21 16:07 Prepared 11/02/21 16:07	11/05/21 13:50 Analyzed 11/03/21 17:49 11/03/21 17:49 Analyzed 11/03/21 17:49	Dil Fac 1 1 1 Dil Fac 1

Client Sample ID: BH-57 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/04/21 11:11	11/05/21 00:32	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/04/21 11:11	11/05/21 00:32	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/04/21 11:11	11/05/21 00:32	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/04/21 11:11	11/05/21 00:32	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/04/21 11:11	11/05/21 00:32	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/04/21 11:11	11/05/21 00:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				11/04/21 11:11	11/05/21 00:32	

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1502-57

Matrix: Solid

Sample Depth: 15

Lab Sample ID: 890-1502-57

11/02/21 16:07

11/03/21 18:11

Lab Sample ID: 890-1502-58

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-57 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 8021B - Vol	atile Organic Cor	npounds (GC	(Continued)
momous coasts to	atilo organio coi		, (-

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	221	S1+	70 - 130	11/04/21 11:11	11/05/21 00:32	1

ı	Mothodi	Total DTEV	- Total BTEX	Coloulation
ı	wethou.	TOTAL DIEV	- IUIAI DIEA	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			11/09/21 10:40	1

ı		
ı	Method: 8015 NM - Diesel Range Organics (DRO)	(CC)
ı	Method. 0013 NM - Diesel Kange Organics (DKO)	(00)

Analyte	Result (Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 l	U	49.9	mg/Kg		_	11/05/21 13:50	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 18:11	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 18:11	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 18:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

1-Chlorooctane	99	70 - 130
o-Terphenyl	102	70 - 130

o-Terphenyl	102	70 - 130	11/02/21 16:07	11/03/21 18:11	1
Method: 300.0 - Anions, Ion Chromatogra	phy - Soluble				

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1190	4.99	mg/Kg			11/08/21 06:48	1

Client Sample ID: BH-58 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Mathad.	0024D	V-1-4:1-	O	Compounds	
wethod:	OUZID -	voiatile	Organic (Jompounas.	166

Michiga ouz ib - Volatile Orga	inc compounds	(30)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/04/21 11:11	11/05/21 00:58	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/04/21 11:11	11/05/21 00:58	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/04/21 11:11	11/05/21 00:58	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/04/21 11:11	11/05/21 00:58	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/04/21 11:11	11/05/21 00:58	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/04/21 11:11	11/05/21 00:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				11/04/21 11:11	11/05/21 00:58	1
1,4-Difluorobenzene (Surr)	243	S1+	70 - 130				11/04/21 11:11	11/05/21 00:58	1

Method: Tot	al RTFY -	Total RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	כ	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00402	U	0.00402		ma/Ka			11/09/21 10:40	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC	Method: 8015 NM -	- Diesel Range	Organics (DRO)	(GC
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Analyte	•	•	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH			<49.9	U	49.9	mg/			11/05/21 13:50	1

Lab Sample ID: 890-1502-58

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-58 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 18:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 18:32	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 18:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				11/02/21 16:07	11/03/21 18:32	1
o-Terphenyl	93		70 - 130				11/02/21 16:07	11/03/21 18:32	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH-59 (15) Lab Sample ID: 890-1502-59 Matrix: Solid

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/04/21 11:11	11/05/21 01:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/04/21 11:11	11/05/21 01:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/04/21 11:11	11/05/21 01:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/04/21 11:11	11/05/21 01:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/04/21 11:11	11/05/21 01:24	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/04/21 11:11	11/05/21 01:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				11/04/21 11:11	11/05/21 01:24	1
1,4-Difluorobenzene (Surr)	243	S1+	70 - 130				11/04/21 11:11	11/05/21 01:24	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 18:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 18:53	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 18:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				11/02/21 16:07	11/03/21 18:53	1
o-Terphenyl	110		70 ₋ 130				11/02/21 16:07	11/03/21 18:53	1

Matrix: Solid

Client: Tetra Tech, Inc.
Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

Lab Sample ID: 890-1502-59

Client Sample ID: BH-59 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 300.0 - Anions, Ion Chrom	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1760		24.9		mg/Kg			11/08/21 07:18	5

Client Sample ID: BH-60 (15)

Lab Sample ID: 890-1502-60

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199		mg/Kg		11/04/21 11:11	11/05/21 01:51	
Toluene	< 0.00199	U	0.00199		mg/Kg		11/04/21 11:11	11/05/21 01:51	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/04/21 11:11	11/05/21 01:51	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/04/21 11:11	11/05/21 01:51	
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/04/21 11:11	11/05/21 01:51	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/04/21 11:11	11/05/21 01:51	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	13	S1-	70 - 130				11/04/21 11:11	11/05/21 01:51	
1,4-Difluorobenzene (Surr)	230	S1+	70 - 130				11/04/21 11:11	11/05/21 01:51	1
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/05/21 13:50	
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		11/02/21 16:07	11/03/21 19:15	,
(GRO)-C6-C10							44/00/04 40:07		
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		11/02/21 16:07	11/03/21 19:15	,
Diesel Range Organics (Over C10-C28)	<49.8 <49.8		49.8 49.8		mg/Kg		11/02/21 16:07	11/03/21 19:15 11/03/21 19:15	
Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)		U							Dil Fac
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.8	U	49.8				11/02/21 16:07	11/03/21 19:15	Dil Fac
Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorocctane	<49.8 <i>%Recovery</i>	U	49.8 <i>Limits</i>				11/02/21 16:07 Prepared	11/03/21 19:15 Analyzed	Dil Fa
Surrogate	<49.8 **Recovery 88 87	U Qualifier	49.8 <i>Limits</i> 70 - 130				11/02/21 16:07 Prepared 11/02/21 16:07	11/03/21 19:15 Analyzed 11/03/21 19:15	
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<49.8 **Recovery 88 87 pmatography -	U Qualifier	49.8 <i>Limits</i> 70 - 130	MDL	mg/Kg	<u>D</u>	11/02/21 16:07 Prepared 11/02/21 16:07	11/03/21 19:15 Analyzed 11/03/21 19:15	Dil Fac

Lab Sample ID: 890-1502-61

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-61 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1 F2	0.00199		mg/Kg		11/01/21 12:13	11/03/21 05:47	1
Toluene	< 0.00199	U F1 F2	0.00199		mg/Kg		11/01/21 12:13	11/03/21 05:47	•
Ethylbenzene	< 0.00199	U F1 F2	0.00199		mg/Kg		11/01/21 12:13	11/03/21 05:47	1
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.00398		mg/Kg		11/01/21 12:13	11/03/21 05:47	
o-Xylene	< 0.00199	U F1 F2	0.00199		mg/Kg		11/01/21 12:13	11/03/21 05:47	
Xylenes, Total	<0.00398	U F1 F2	0.00398		mg/Kg		11/01/21 12:13	11/03/21 05:47	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	115		70 - 130				11/01/21 12:13	11/03/21 05:47	
1,4-Difluorobenzene (Surr)	99		70 - 130				11/01/21 12:13	11/03/21 05:47	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/09/21 10:40	-
Analyte Total TPH		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<10 O								
-	\4 3.3	U	49.9		mg/Kg			11/05/21 13:50	1
- -			49.9		mg/Kg			11/05/21 13:50	1
: Method: 8015B NM - Diesel Ran	ge Organics (D		49.9 RL	MDL		D	Prepared	11/05/21 13:50 Analyzed	
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	ge Organics (D	RO) (GC)		MDL		<u>D</u>	Prepared 11/03/21 10:38		Dil Fac
Method: 8015B NM - Diesel Randanalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D Result <49.9	RO) (GC) Qualifier	RL	MDL	Unit	<u>D</u>		Analyzed	Dil Fac
Method: 8015B NM - Diesel Randanalyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (D Result <49.9	RO) (GC) Qualifier UF1F2 UF1F2	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	11/03/21 10:38	Analyzed 11/03/21 21:06	Dil Fac
Method: 8015B NM - Diesel Randanalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <49.9	RO) (GC) Qualifier U F1 F2 U F1 F2	RL 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/03/21 10:38	Analyzed 11/03/21 21:06	Dil Fac
Method: 8015B NM - Diesel Randanalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D Result <49.9 <49.9	RO) (GC) Qualifier U F1 F2 U F1 F2	RL 49.9 49.9 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/03/21 10:38 11/03/21 10:38 11/03/21 10:38	Analyzed 11/03/21 21:06 11/03/21 21:06 11/03/21 21:06	Dil Fac
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	ge Organics (D Result <49.9 <49.9 <49.9 **Recovery 50	RO) (GC) Qualifier U F1 F2 U F1 F2 U Qualifier	RL 49.9 49.9 49.9 <i>Limits</i>	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/03/21 10:38 11/03/21 10:38 11/03/21 10:38 Prepared	Analyzed 11/03/21 21:06 11/03/21 21:06 11/03/21 21:06 Analyzed	Dil Fac
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	ge Organics (D Result <49.9 <49.9 <49.9 **Recovery 50 34	RO) (GC) Qualifier U F1 F2 U F1 F2 U Qualifier S1- S1-	RL 49.9 49.9 49.9 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/03/21 10:38 11/03/21 10:38 11/03/21 10:38 Prepared 11/03/21 10:38	Analyzed 11/03/21 21:06 11/03/21 21:06 11/03/21 21:06 Analyzed 11/03/21 21:06	Dil Fac
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	ge Organics (D Result <49.9 <49.9 <49.9 **Recovery 50 34 omatography -	RO) (GC) Qualifier U F1 F2 U F1 F2 U Qualifier S1- S1-	RL 49.9 49.9 49.9 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	11/03/21 10:38 11/03/21 10:38 11/03/21 10:38 Prepared 11/03/21 10:38	Analyzed 11/03/21 21:06 11/03/21 21:06 11/03/21 21:06 Analyzed 11/03/21 21:06	Dil Fac

Client Sample ID: BH-62 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:13	11/03/21 06:08	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:13	11/03/21 06:08	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:13	11/03/21 06:08	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/01/21 12:13	11/03/21 06:08	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:13	11/03/21 06:08	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/01/21 12:13	11/03/21 06:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				11/01/21 12:13	11/03/21 06:08	1

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Lab Sample ID: 890-1502-62

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Lab Sample ID: 890-1502-62

11/03/21 10:38 11/03/21 22:16

Lab Sample ID: 890-1502-63

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-62 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 8021B - Volatile Or	ganic Compounds	(GC) (Continued)
Michigal COLID Volume Of	gaine compounds	(GG) (GG) (GG)

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	103	70 - 130	11/01/21 12:13	11/03/21 06:08	1

Mathod:	Total RTFY	- Total BTEX	Calculation
mictilou.	TOTAL DIEN	- IUIUI DI LA	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	כ	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg		_	11/09/21 10:40	1

1 1	Mothod:	8015 NM	Discol	Pango O	raaniee i		(CC)
1	vietilou.	OU 13 INIVI	- Diesei	Rallye C	n yanicə i	UNU	1001

Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg				11/05/21 13:50	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL Un	it	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	m(g/Kg	_	11/03/21 10:38	11/03/21 22:16	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9	mg	g/Kg		11/03/21 10:38	11/03/21 22:16	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mç	g/Kg		11/03/21 10:38	11/03/21 22:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				11/03/21 10:38	11/03/21 22:16	1

1-Chlorooctane	93	70 - 130
o-Terphenyl	90	70 - 130

Method: 300.0 - Anions, Ion Chrom	atography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac

	Analyte	Result Qualifier	KL	MIDL UNIT	U	Prepared	Analyzeu	Dii Fac
L	Chloride	1480	25.2	mg/Kg			11/08/21 07:41	5

Client Sample ID: BH-63 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 8021B - Volatile Organic Co	mnolinas ((=(.)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:13	11/03/21 06:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:13	11/03/21 06:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:13	11/03/21 06:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:13	11/03/21 06:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:13	11/03/21 06:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:13	11/03/21 06:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				11/01/21 12:13	11/03/21 06:28	1
1,4-Difluorobenzene (Surr)	102		70 - 130				11/01/21 12:13	11/03/21 06:28	1

Method: Tot	al RTFY -	Total RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		ma/Ka			11/09/21 10:40	1

	Method: 8015 NM -	- Diesel Range	Organics	(DRO)	(GC)
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Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			11/05/21 13:50	1

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Lab Sample ID: 890-1502-63

Lab Sample ID: 890-1502-64

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-63 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		11/03/21 10:38	11/03/21 22:39	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/03/21 10:38	11/03/21 22:39	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/21 10:38	11/03/21 22:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				11/03/21 10:38	11/03/21 22:39	1
o-Terphenyl	95		70 - 130				11/03/21 10:38	11/03/21 22:39	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH-64 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 06:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 06:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 06:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:13	11/03/21 06:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 06:48	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 12:13	11/03/21 06:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				11/01/21 12:13	11/03/21 06:48	1
1,4-Difluorobenzene (Surr)	99		70 - 130				11/01/21 12:13	11/03/21 06:48	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/03/21 10:38	11/03/21 23:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/21 10:38	11/03/21 23:00	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/21 10:38	11/03/21 23:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				11/03/21 10:38	11/03/21 23:00	1

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

Client Sample ID: BH-64 (15) Date Collected: 10/27/21 00:00

Lab Sample ID: 890-1502-64

Date Received: 10/29/21 12:45

Matrix: Solid

Sample Depth: 15

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2760		24.9		mg/Kg			11/08/21 07:56	5

Client Sample ID: BH-65 (15) Lab Sample ID: 890-1502-65

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45 **Matrix: Solid**

Dil Fac

Analyzed

Sample Depth: 15

Analyte

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:13	11/03/21 07:09	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:13	11/03/21 07:09	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:13	11/03/21 07:09	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/01/21 12:13	11/03/21 07:09	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:13	11/03/21 07:09	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/01/21 12:13	11/03/21 07:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130				11/01/21 12:13	11/03/21 07:09	1
1,4-Difluorobenzene (Surr)	101		70 - 130				11/01/21 12:13	11/03/21 07:09	1
Method: Total BTEX - Total BT	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			11/09/21 10:40	1
- Method: 8015 NM - Diesel Ran	ge Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/05/21 13:50	1

o-Terphenyl	107		70 - 130		11/03/21 10:38	11/03/21 23:21	1
1-Chlorooctane	99		70 - 130		11/03/21 10:38	11/03/21 23:21	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg	11/03/21 10:38	11/03/21 23:21	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg	11/03/21 10:38	11/03/21 23:21	1
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg	11/03/21 10:38	11/03/21 23:21	1
Cacolina Danga Organice							

RL

MDL Unit

Prepared

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	823	F1	4.99		mg/Kg			11/08/21 08:58	1

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Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Result Qualifier

Lab Sample ID: 890-1502-66

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-66 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 07:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 07:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 07:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 12:13	11/03/21 07:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 07:29	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 12:13	11/03/21 07:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				11/01/21 12:13	11/03/21 07:29	1
1,4-Difluorobenzene (Surr)	72		70 - 130				11/01/21 12:13	11/03/21 07:29	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/09/21 10:40	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH	Result <50.0		RL 50.0	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/05/21 13:50	
	<50.0	U		MDL		<u>D</u>	Prepared		
Total TPH	<50.0 ge Organics (D	RO) (GC) Qualifier	50.0			<u>D</u>	Prepared	11/05/21 13:50 Analyzed	1
Total TPH Method: 8015B NM - Diesel Ran	<50.0	RO) (GC) Qualifier	50.0		mg/Kg	=	<u> </u>	11/05/21 13:50	1 Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<50.0 ge Organics (D	RO) (GC) Qualifier	50.0		mg/Kg	=	Prepared	11/05/21 13:50 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0 ge Organics (Di Result <50.0	U RO) (GC) Qualifier U	50.0 RL 50.0		mg/Kg Unit mg/Kg	=	Prepared 11/03/21 10:38	11/05/21 13:50 Analyzed 11/03/21 23:41	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 ge Organics (Di Result <50.0 <50.0	U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/03/21 10:38	11/05/21 13:50 Analyzed 11/03/21 23:41 11/03/21 23:41	1 Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 ge Organics (Digital Result <50.0 <50.0 <50.0	U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/03/21 10:38 11/03/21 10:38	Analyzed 11/03/21 23:41 11/03/21 23:41 11/03/21 23:41	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 %Recovery	U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0 Limits		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/03/21 10:38 11/03/21 10:38 11/03/21 10:38 Prepared	Analyzed 11/03/21 23:41 11/03/21 23:41 11/03/21 23:41 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 <50.0 *Recovery 102 112	U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/03/21 10:38 11/03/21 10:38 11/03/21 10:38 Prepared 11/03/21 10:38	Analyzed 11/03/21 23:41 11/03/21 23:41 11/03/21 23:41 Analyzed 11/03/21 23:41	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 <50.0 <70.0 *Recovery 102 112 omatography -	U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/03/21 10:38 11/03/21 10:38 11/03/21 10:38 Prepared 11/03/21 10:38	Analyzed 11/03/21 23:41 11/03/21 23:41 11/03/21 23:41 Analyzed 11/03/21 23:41	Dil Fac 1 Dil Fac 1 1 Dil Fac 1 Dil Fac 1 Dil Fac

Client Sample ID: BH-67 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:13	11/03/21 07:50	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:13	11/03/21 07:50	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:13	11/03/21 07:50	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		11/01/21 12:13	11/03/21 07:50	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:13	11/03/21 07:50	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		11/01/21 12:13	11/03/21 07:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				11/01/21 12:13	11/03/21 07:50	1

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Lab Sample ID: 890-1502-67

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Lab Sample ID: 890-1502-67

Lab Sample ID: 890-1502-68

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-67 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 8021B - Volatile Organic Con	noounds (GC)	(Continued)
motifical collision of gains con	ipodiido (OO)	(Continuou,

Surrogate	%Recovery Qua	alifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100	70 - 130	11/01/21 12:13	11/03/21 07:50	1

Mathad:	Total	RTFY -	Total	RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	כ	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg		_	11/09/21 10:40	1

П				
ı	Method: 8015 NM	Diocal Rand	no Organice	(DRO) (GC)

Analyte	Result Qualifie	er RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8 U	49.8	mg/Kg			11/05/21 13:50	1

Method: 8015B NM - Diese	I Range Organics (D	RO) (GC)
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Ana	alyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gas	soline Range Organics	<49.8	U	49.8		mg/Kg		11/03/21 10:38	11/04/21 00:02	1
(GR	RO)-C6-C10									
Die	sel Range Organics (Over	<49.8	U	49.8		mg/Kg		11/03/21 10:38	11/04/21 00:02	1
C10	D-C28)									
OII	Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/03/21 10:38	11/04/21 00:02	1
Sur	rogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

1-Chlorooctane	102	70 - 130
o-Terphenyl	110	70 - 130

Method: 300.0 - Anions, Ion Chromatogran	hy - Soluble				
o-Terphenyl	110	70 - 130	11/03/21 10:38	11/04/21 00:02	1
1-Chioroctane	102	10 - 130	11/03/21 10.36	11/04/21 00.02	,

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	854	4.98	mg/K	g		11/08/21 09:29	1

Client Sample ID: BH-68 (15)

Date Collected: 10/28/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Mothod: 9021D	Volatila Organia	Compounds (GC)
I WIELIIOU. OUZ ID '	- voialile Oruanic	Compounds (GC)

moundar coziz rolatilo organic c		()							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:13	11/03/21 08:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:13	11/03/21 08:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:13	11/03/21 08:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:13	11/03/21 08:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:13	11/03/21 08:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:13	11/03/21 08:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				11/01/21 12:13	11/03/21 08:10	1
1,4-Difluorobenzene (Surr)	109		70 - 130				11/01/21 12:13	11/03/21 08:10	1

Mothod:	Total RTF	Y - Total R	TFY Calculati	on

Analyte	Result	Qualifier	RL	MDL	Unit	ь	Prepared	Analyzed	DII Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/09/21 10:40	1

Analyte	•	•	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH			<50.0	U	50.0		mg/Kg			11/05/21 13:50	1

Lab Sample ID: 890-1502-68

Lab Sample ID: 890-1502-69

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-68 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/03/21 10:38	11/04/21 00:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/21 10:38	11/04/21 00:23	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/21 10:38	11/04/21 00:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				11/03/21 10:38	11/04/21 00:23	1
o-Terphenyl	98		70 - 130				11/03/21 10:38	11/04/21 00:23	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			25.2		mg/Kg			11/08/21 09:36	5

Client Sample ID: BH-69 (15)

Date Collected: 10/28/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:13	11/03/21 08:30	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:13	11/03/21 08:30	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:13	11/03/21 08:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/21 12:13	11/03/21 08:30	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:13	11/03/21 08:30	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/21 12:13	11/03/21 08:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130				11/01/21 12:13	11/03/21 08:30	1
1,4-Difluorobenzene (Surr)	103		70 - 130				11/01/21 12:13	11/03/21 08:30	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 00:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 00:44	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 00:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				11/03/21 10:38	11/04/21 00:44	1
o-Terphenyl	114		70 ₋ 130				11/03/21 10:38	11/04/21 00:44	1

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Job ID: 890-1502-1 SDG: 212C-MD-02230

Project/Site: Kaiser SWD

Date Received: 10/29/21 12:45

Client Sample ID: BH-69 (15) Lab Sample ID: 890-1502-69 Date Collected: 10/28/21 00:00

Matrix: Solid

Sample Depth: 15

Client: Tetra Tech, Inc.

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	632		4.99		mg/Kg			11/08/21 09:44	1

Client Sample ID: BH-70 (15) Lab Sample ID: 890-1502-70

Date Collected: 10/28/21 00:00 Matrix: Solid

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:13	11/03/21 08:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:13	11/03/21 08:51	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:13	11/03/21 08:51	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:13	11/03/21 08:51	
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:13	11/03/21 08:51	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:13	11/03/21 08:51	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	130		70 - 130				11/01/21 12:13	11/03/21 08:51	
1,4-Difluorobenzene (Surr)	102		70 - 130				11/01/21 12:13	11/03/21 08:51	
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/09/21 10:40	•
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH			49.9	MIDL	mg/Kg			11/05/21 13:50	Dil Fat
			43.5		mg/itg			11/03/21 13.30	
Method: 8015B NM - Diesel Rang									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 01:05	•
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 01:05	•
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 01:05	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	97		70 - 130				11/03/21 10:38	11/04/21 01:05	
o-Terphenyl	103		70 - 130				11/03/21 10:38	11/04/21 01:05	
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	921		4.97		mg/Kg			11/08/21 10:07	1

Lab Sample ID: 890-1502-71

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-71 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 10:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 10:40	1
Ethylbenzene	0.00378		0.00200		mg/Kg		11/01/21 12:13	11/03/21 10:40	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/01/21 12:13	11/03/21 10:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 10:40	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/01/21 12:13	11/03/21 10:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				11/01/21 12:13	11/03/21 10:40	1
1,4-Difluorobenzene (Surr)	97		70 - 130				11/01/21 12:13	11/03/21 10:40	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DB)	0) (60)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
								,u.,u	DII Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1
Total TPH Method: 8015B NM - Diesel Ran			49.9		mg/Kg				
- -	ge Organics (D		49.9 RL	MDL		— — D	Prepared		1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier		MDL		<u>D</u>		11/05/21 13:50	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D	RO) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	11/05/21 13:50 Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (D Result <49.9	RO) (GC) Qualifier U	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared 11/03/21 10:38	11/05/21 13:50 Analyzed 11/04/21 01:48	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <49.9	RO) (GC) Qualifier U	RL 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	Prepared 11/03/21 10:38 11/03/21 10:38	11/05/21 13:50 Analyzed 11/04/21 01:48 11/04/21 01:48	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D) Result <49.9 <49.9	RO) (GC) Qualifier U	RL 49.9 49.9 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	Prepared 11/03/21 10:38 11/03/21 10:38	Analyzed 11/04/21 01:48 11/04/21 01:48	Dil Face 1 1 1 Dil Face
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	ge Organics (D) Result <49.9 <49.9 <49.9 %Recovery	RO) (GC) Qualifier U	RL 49.9 49.9 49.9 <i>Limits</i>	MDL	Unit mg/Kg mg/Kg	<u>D</u>	Prepared 11/03/21 10:38 11/03/21 10:38 11/03/21 10:38 Prepared	Analyzed 11/04/21 01:48 11/04/21 01:48 11/04/21 01:48 Analyzed	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	ge Organics (D) Result <49.9 <49.9 <49.9 **Recovery 99 107	RO) (GC) Qualifier U U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	Prepared 11/03/21 10:38 11/03/21 10:38 11/03/21 10:38 Prepared 11/03/21 10:38	Analyzed 11/04/21 01:48 11/04/21 01:48 11/04/21 01:48 Analyzed 11/04/21 01:48	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	ge Organics (D) Result <49.9 <49.9 <49.9	RO) (GC) Qualifier U U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg	D_	Prepared 11/03/21 10:38 11/03/21 10:38 11/03/21 10:38 Prepared 11/03/21 10:38	Analyzed 11/04/21 01:48 11/04/21 01:48 11/04/21 01:48 Analyzed 11/04/21 01:48	

Client Sample ID: BH-72 (15)

Date Collected: 10/28/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:13	11/03/21 11:00	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:13	11/03/21 11:00	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:13	11/03/21 11:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/21 12:13	11/03/21 11:00	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:13	11/03/21 11:00	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/21 12:13	11/03/21 11:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				11/01/21 12:13	11/03/21 11:00	

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Lab Sample ID: 890-1502-72

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Matrix: Solid

Lab Sample ID: 890-1502-72

Lab Sample ID: 890-1502-73

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-72 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 8021B - Volatile Organic Compou	unds (GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	103	70 - 130	11/01/21 12:13	11/03/21 11:00	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg		_	11/09/21 10:40	1

Mothod: 2015 NM - Dio	cal Panga Organica	· (DPO) (CC)

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	ma/Ka			11/05/21 13:50	1

Mothod: 004ED	NM - Diesel Ran	as Orasnico	
Method: out ob	NIVI - Diesei Kan	ue Organics	IDKUI IGGI

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 02:09	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 02:09	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 02:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

1-Chlorooctane	115	70 - 130
o-Terphenyl	128	70 - 130

Method: 300.0 - Anions, Ion Chrom	atography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result Qualifier	NL	MDL OIII	 riepaieu	Allalyzeu	Dil Fac
Chloride	692	4.95	mg/Kg		11/08/21 10:22	1

Client Sample ID: BH-73 (15)

Date Collected: 10/28/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Mothod: 9021R - V	Volatila Organic	Compounds (GC)
MICHIOU. OUZ ID •	VUIALIIE OLUAIIIC	CUIIIDUUIIUS (GC)

		()							
Analyte	Result	Qualifier	RL	MDL U	Jnit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	m	ng/Kg		11/01/21 12:13	11/03/21 11:21	1
Toluene	<0.00202	U	0.00202	m	ng/Kg		11/01/21 12:13	11/03/21 11:21	1
Ethylbenzene	<0.00202	U	0.00202	m	ng/Kg		11/01/21 12:13	11/03/21 11:21	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	m	ng/Kg		11/01/21 12:13	11/03/21 11:21	1
o-Xylene	<0.00202	U	0.00202	m	ng/Kg		11/01/21 12:13	11/03/21 11:21	1
Xylenes, Total	<0.00403	U	0.00403	m	ng/Kg		11/01/21 12:13	11/03/21 11:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130				11/01/21 12:13	11/03/21 11:21	1
1,4-Difluorobenzene (Surr)	102		70 - 130				11/01/21 12:13	11/03/21 11:21	1

Mothod:	Total RTF	Y - Total R	TFX Calculatio	n

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg		_	11/09/21 10:40	1

	Method: 8015 NM -	- Diesel Range	Organics	(DRO)	(GC)
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Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	58.5	49.9	mg/Kg			11/05/21 13:50	1

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Lab Sample ID: 890-1502-73

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-73 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 02:31	1
Diesel Range Organics (Over C10-C28)	58.5		49.9		mg/Kg		11/03/21 10:38	11/04/21 02:31	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 02:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				11/03/21 10:38	11/04/21 02:31	1
o-Terphenyl	91		70 - 130				11/03/21 10:38	11/04/21 02:31	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH-74 (15) Lab Sample ID: 890-1502-74 Date Collected: 10/28/21 00:00 Matrix: Solid

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:13	11/03/21 11:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:13	11/03/21 11:41	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:13	11/03/21 11:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:13	11/03/21 11:41	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:13	11/03/21 11:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:13	11/03/21 11:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				11/01/21 12:13	11/03/21 11:41	1
1,4-Difluorobenzene (Surr)	98		70 - 130				11/01/21 12:13	11/03/21 11:41	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 02:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 02:52	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 02:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				11/03/21 10:38	11/04/21 02:52	1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

Client Sample ID: BH-74 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Lab Sample ID: 890-1502-74

Matrix: Solid

Method: 300.0 - Anions, Ion Chrom	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2620		25.2		mg/Kg			11/08/21 10:37	5

Client Sample ID: BH-75 (15) Lab Sample ID: 890-1502-75 **Matrix: Solid**

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Method: Total BTEX - Total BTEX Calculation

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 12:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 12:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 12:02	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/01/21 12:13	11/03/21 12:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 12:02	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/01/21 12:13	11/03/21 12:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				11/01/21 12:13	11/03/21 12:02	1
1,4-Difluorobenzene (Surr)	79		70 - 130				11/01/21 12:13	11/03/21 12:02	1

Analyte Total BTEX	Result <0.00401	Qualifier U	0.00401	MDL	Unit mg/Kg	D	Prepared	Analyzed 11/09/21 10:40	Dil Fac
Method: 801	5 NM - Diesel Range Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/05/21 13:50	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/03/21 10:38	11/04/21 03:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/21 10:38	11/04/21 03:14	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/21 10:38	11/04/21 03:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				11/03/21 10:38	11/04/21 03:14	1
o-Terphenyl	109		70 ₋ 130				11/03/21 10:38	11/04/21 03:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	982	F1	4.98		mg/Kg			11/08/21 10:45	1

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Released to Imaging: 9/1/2023 2:55:43 PM

11/10/2021

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-76 (15) Lab Sample ID: 890-1502-76

Date Collected: 10/28/21 00:00 Matrix: Solid Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 12:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 12:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 12:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:13	11/03/21 12:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 12:22	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 12:13	11/03/21 12:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				11/01/21 12:13	11/03/21 12:22	1
1,4-Difluorobenzene (Surr)	104		70 - 130				11/01/21 12:13	11/03/21 12:22	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	40.0		mg/Kg				
			49.8		mg/Rg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)	49.8		mg/Kg			11/05/21 13:50	1
- Method: 8015B NM - Diesel Rang Analyte	• •	RO) (GC) Qualifier	49.8 RL	MDL		D	Prepared	11/05/21 13:50 Analyzed	
Analyte Gasoline Range Organics	• •	Qualifier		MDL		<u>D</u>	Prepared 11/03/21 10:38		Dil Fac
Analyte Gasoline Range Organics	Result	Qualifier U	RL	MDL	Unit	<u>D</u>	<u>.</u>	Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.8	Qualifier U	RL 49.8	MDL	Unit mg/Kg	<u>D</u>	11/03/21 10:38	Analyzed 11/04/21 03:36	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8 <49.8	Qualifier U U U	RL 49.8	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/03/21 10:38	Analyzed 11/04/21 03:36	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.8 <49.8 <49.8	Qualifier U U U	RL 49.8 49.8 49.8	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/03/21 10:38 11/03/21 10:38 11/03/21 10:38	Analyzed 11/04/21 03:36 11/04/21 03:36 11/04/21 03:36	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U U U	RL 49.8 49.8 49.8 <i>Limits</i>	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/03/21 10:38 11/03/21 10:38 11/03/21 10:38 Prepared	Analyzed 11/04/21 03:36 11/04/21 03:36 11/04/21 03:36 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U U Qualifier	RL 49.8 49.8 49.8 49.8 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg	<u> </u>	11/03/21 10:38 11/03/21 10:38 11/03/21 10:38 Prepared 11/03/21 10:38	Analyzed 11/04/21 03:36 11/04/21 03:36 11/04/21 03:36 Analyzed 11/04/21 03:36	Dil Face 1 1 Dil Face
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U Qualifier	RL 49.8 49.8 49.8 49.8 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	11/03/21 10:38 11/03/21 10:38 11/03/21 10:38 Prepared 11/03/21 10:38	Analyzed 11/04/21 03:36 11/04/21 03:36 11/04/21 03:36 Analyzed 11/04/21 03:36	Dil Face

Client Sample ID: BH-77 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 12:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 12:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 12:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 12:13	11/03/21 12:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 12:42	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 12:13	11/03/21 12:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130				11/01/21 12:13	11/03/21 12:42	1

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Lab Sample ID: 890-1502-77

Matrix: Solid

Lab Sample ID: 890-1502-77

11/04/21 03:57

Lab Sample ID: 890-1502-78

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-77 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 8021B - Volatile Or	ganic Compounds	(GC) (Continued)
Michigal COLID Volume Of	gaine compounds	(GG) (GG) (GG)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	71		70 - 130	11/01/21 12:13	11/03/21 12:42	1

Mathod:	Total RTFY	- Total BTEX	Calculation
mictilou.	TOTAL DIEN	- IUIUI DI LA	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	כ	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg		_	11/09/21 10:40	1

Method: 8015 NM -	Diesal Range	Organice	(DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1

Method: 8015B	NM - Diesel	Range Ord	anics	(DRO)	(GC)
motilioa. oo lob	THE DIGGGE	Trainge Oit	garnos	(5.10)	100)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 03:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 03:57	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 03:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				11/03/21 10:38	11/04/21 03:57	1

1-Chlorooctane	99	70 - 130	11/03/21 10:38
o-Terphenyl	105	70 - 130	11/03/21 10:38

Method: 300.0 - Anions, Ion Chron	natography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1430	24.9	ma/Ka			11/08/21 12:34	5

Client Sample ID: BH-78 (15)

Date Collected: 10/28/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Mothod: 9021D	Volatile Organie	Compounds (GC)
I WIELIIOU. OUZ ID '	- voiatile Organic	Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:13	11/03/21 13:03	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:13	11/03/21 13:03	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:13	11/03/21 13:03	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/01/21 12:13	11/03/21 13:03	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:13	11/03/21 13:03	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/01/21 12:13	11/03/21 13:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				11/01/21 12:13	11/03/21 13:03	1
1,4-Difluorobenzene (Surr)	99		70 - 130				11/01/21 12:13	11/03/21 13:03	1

Mothod:	Total RTEY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			11/09/21 10:40	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/05/21 13:50	1

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11/10/2021

Lab Sample ID: 890-1502-78

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-78 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 04:18	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 04:18	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 04:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				11/03/21 10:38	11/04/21 04:18	1
o-Terphenyl	112		70 - 130				11/03/21 10:38	11/04/21 04:18	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH-79 (15) Lab Sample ID: 890-1502-79 **Matrix: Solid**

Date Collected: 10/28/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:13	11/03/21 13:23	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:13	11/03/21 13:23	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:13	11/03/21 13:23	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/01/21 12:13	11/03/21 13:23	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:13	11/03/21 13:23	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/01/21 12:13	11/03/21 13:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130				11/01/21 12:13	11/03/21 13:23	1
1,4-Difluorobenzene (Surr)	104		70 - 130				11/01/21 12:13	11/03/21 13:23	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	je Organics (Di	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 04:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 04:40	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 04:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				11/03/21 10:38	11/04/21 04:40	1
	103		70 ₋ 130				11/03/21 10:38	11/04/21 04:40	

Lab Sample ID: 890-1502-79

Job ID: 890-1502-1 SDG: 212C-MD-02230

Client Sample ID: BH-79 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Method: 300.0 - Anions, Ion Chromatography - Soluble											
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	561	4.95		mg/Kg			11/08/21 11:46				

Client Sample ID: BH-80 (15)

Date Collected: 10/28/21 00:00

Lab Sample ID: 890-1502-80

Matrix: Solid

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:13	11/03/21 13:44	
Toluene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:13	11/03/21 13:44	
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:13	11/03/21 13:44	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		11/01/21 12:13	11/03/21 13:44	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:13	11/03/21 13:44	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		11/01/21 12:13	11/03/21 13:44	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				11/01/21 12:13	11/03/21 13:44	1
1,4-Difluorobenzene (Surr)	106		70 - 130				11/01/21 12:13	11/03/21 13:44	1
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH			49.8	MIDL	mg/Kg		Prepareu	11/05/21 13:50	- DII Fac
Iotai IFII	~49.0	U	49.0		mg/kg			11/03/21 13:30	'
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/03/21 10:38	11/04/21 05:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/03/21 10:38	11/04/21 05:01	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/03/21 10:38	11/04/21 05:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				11/03/21 10:38	11/04/21 05:01	1
	122		70 - 130				11/03/21 10:38	11/04/21 05:01	1
o-Terphenyl									
o-Terphenyl : Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
, ,		Soluble Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-1502-81

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-81 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F2 F1	0.00199		mg/Kg		11/01/21 12:16	11/03/21 17:55	1
Toluene	< 0.00199	U F2 F1	0.00199		mg/Kg		11/01/21 12:16	11/03/21 17:55	1
Ethylbenzene	< 0.00199	U F2 F1	0.00199		mg/Kg		11/01/21 12:16	11/03/21 17:55	1
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.00398		mg/Kg		11/01/21 12:16	11/03/21 17:55	1
o-Xylene	< 0.00199	U F2 F1	0.00199		mg/Kg		11/01/21 12:16	11/03/21 17:55	1
Xylenes, Total	<0.00398	U F2 F1	0.00398		mg/Kg		11/01/21 12:16	11/03/21 17:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130				11/01/21 12:16	11/03/21 17:55	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130				11/01/21 12:16	11/03/21 17:55	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/09/21 10:40	1
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
T-1-1 TDII								· ····· , · ·	Diriac
TOTAL TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	
- -			49.9		mg/Kg				
Method: 8015B NM - Diesel Ran	ge Organics (D		49.9 RL	MDL			Prepared		1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier		MDL				11/05/21 13:50	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	11/05/21 13:50 Analyzed	Dil Fac
5 5 · ·	ge Organics (D Result <49.9	RO) (GC) Qualifier U	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared 11/03/21 11:37	11/05/21 13:50 Analyzed 11/04/21 11:05	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D Result <49.9	RO) (GC) Qualifier U	RL 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	Prepared 11/03/21 11:37	11/05/21 13:50 Analyzed 11/04/21 11:05 11/04/21 11:05	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D Result <49.9 <49.9	RO) (GC) Qualifier U	RL 49.9 49.9 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	Prepared 11/03/21 11:37 11/03/21 11:37	Analyzed 11/04/21 11:05 11/04/21 11:05 11/04/21 11:05	Dil Face 1 1 1 Dil Face
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	ge Organics (D Result <49.9 <49.9 <49.9 %Recovery	RO) (GC) Qualifier U	RL 49.9 49.9 49.9 <i>Limits</i>	MDL	Unit mg/Kg mg/Kg	<u>D</u>	Prepared 11/03/21 11:37 11/03/21 11:37 11/03/21 11:37 Prepared	Analyzed 11/04/21 11:05 11/04/21 11:05 11/04/21 11:05 Analyzed	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	ge Organics (D Result <49.9 <49.9 <49.9 **Recovery 91 101	RO) (GC) Qualifier U U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	Prepared 11/03/21 11:37 11/03/21 11:37 11/03/21 11:37 Prepared 11/03/21 11:37	Analyzed 11/04/21 11:05 11/04/21 11:05 11/04/21 11:05 Analyzed 11/04/21 11:05	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	ge Organics (D Result <49.9 <49.9 <49.9 **Recovery 91 101 omatography -	RO) (GC) Qualifier U U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 11/03/21 11:37 11/03/21 11:37 11/03/21 11:37 Prepared 11/03/21 11:37	Analyzed 11/04/21 11:05 11/04/21 11:05 11/04/21 11:05 Analyzed 11/04/21 11:05	Dil Fac

Client Sample ID: BH-82 (15)

Date Collected: 10/28/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:16	11/03/21 18:15	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:16	11/03/21 18:15	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:16	11/03/21 18:15	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/01/21 12:16	11/03/21 18:15	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:16	11/03/21 18:15	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/01/21 12:16	11/03/21 18:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				11/01/21 12:16	11/03/21 18:15	

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1502-82

11/10/2021

Matrix: Solid

Lab Sample ID: 890-1502-82

Lab Sample ID: 890-1502-83

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-82 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 8021B - Volatile Organic Compou	unds (GC) (Continued)
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Surrogate	%Recovery Qualifie	er Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	83	70 - 130	11/01/21 12:16	11/03/21 18:15	1

Method:	Total	RTFX	- Total	RTFX	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			_	11/09/21 10:40	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1

Mothod: 904ED N	IM Discol	Dange Ore	raniaa /	DBO) /	CCI
Method: 8015B N	AIM - DIESEL	Range Org	janicə (i		GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 12:11	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 12:11	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 12:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	_	11/03/21 11:37	11/04/21 12:11	1
o-Terphenyl	102		70 - 130		11/03/21 11:37	11/04/21 12:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Quali		MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	306	4.98	mg/Kg			11/08/21 12:09	1

Client Sample ID: BH-83 (15)

Date Collected: 10/28/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Mothod: 9021D	Volatile Organie	Compounds (GC)
I WIELIIOU. OUZ ID '	- voiatile Organic	Compounds (GC)

		()							
Analyte	Result	Qualifier	RL	MDL U	Jnit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	m	ng/Kg		11/01/21 12:16	11/03/21 18:36	1
Toluene	<0.00200	U	0.00200	m	ng/Kg		11/01/21 12:16	11/03/21 18:36	1
Ethylbenzene	0.00427		0.00200	m	ng/Kg		11/01/21 12:16	11/03/21 18:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	m	ng/Kg		11/01/21 12:16	11/03/21 18:36	1
o-Xylene	<0.00200	U	0.00200	m	ng/Kg		11/01/21 12:16	11/03/21 18:36	1
Xylenes, Total	<0.00400	U	0.00400	m	ng/Kg		11/01/21 12:16	11/03/21 18:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				11/01/21 12:16	11/03/21 18:36	1
1,4-Difluorobenzene (Surr)	90		70 - 130				11/01/21 12:16	11/03/21 18:36	1

Method:	Total	RTFY -	Total RTFX	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	I	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00427		0.00400		ma/Ka				11/09/21 10:40	1

Method: 8015 NM - Dies	el Range Organics (DRO)	(GC)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/05/21 13:50	1

Eurofins Xenco, Carlsbad

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Lab Sample ID: 890-1502-83

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-83 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		11/03/21 11:37	11/04/21 12:32	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/03/21 11:37	11/04/21 12:32	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/21 11:37	11/04/21 12:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				11/03/21 11:37	11/04/21 12:32	1
o-Terphenyl	105		70 - 130				11/03/21 11:37	11/04/21 12:32	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH-84 (15) Lab Sample ID: 890-1502-84 Date Collected: 10/28/21 00:00 Matrix: Solid

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 18:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 18:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 18:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:16	11/03/21 18:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 18:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 12:16	11/03/21 18:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				11/01/21 12:16	11/03/21 18:56	1
1,4-Difluorobenzene (Surr)	101		70 - 130				11/01/21 12:16	11/03/21 18:56	1
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			11/09/21 10:40	1
_						_			
Method: 8015 NM - Diesel Range	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
_		Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/05/21 13:50	Dil Fac
Analyte	Result <50.0	Qualifier U		MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result <50.0	Qualifier U				<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <50.0	Qualifier U RO) (GC) Qualifier	50.0		mg/Kg			11/05/21 13:50	1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <50.0 Ge Organics (DI Result	Qualifier U RO) (GC) Qualifier U	50.0		mg/Kg		Prepared	11/05/21 13:50 Analyzed	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0 Ge Organics (Dige Result <50.0	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0		mg/Kg Unit mg/Kg		Prepared 11/03/21 11:37	11/05/21 13:50 Analyzed 11/04/21 12:55	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 Ge Organics (Dige Result <50.0	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0		mg/Kg Unit mg/Kg		Prepared 11/03/21 11:37	11/05/21 13:50 Analyzed 11/04/21 12:55	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/03/21 11:37 11/03/21 11:37	11/05/21 13:50 Analyzed 11/04/21 12:55 11/04/21 12:55	1 Dil Fac 1 1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/03/21 11:37 11/03/21 11:37	Analyzed 11/04/21 12:55 11/04/21 12:55 11/04/21 12:55	1 Dil Fac 1

Date Collected: 10/28/21 00:00

Date Received: 10/29/21 12:45

Client: Tetra Tech, Inc.
Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

Client Sample ID: BH-84 (15)

Lab S

Lab Sample ID: 890-1502-84

Matrix: Solid

Sample Depth: 15

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	710		4.99		mg/Kg			11/08/21 12:25	1

Client Sample ID: BH-85 (15)

Lab Sample ID: 890-1502-85

Date Collected: 10/28/21 00:00 Matrix: Solid

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:16	11/03/21 19:17	
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:16	11/03/21 19:17	•
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:16	11/03/21 19:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:16	11/03/21 19:17	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:16	11/03/21 19:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:16	11/03/21 19:17	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	114		70 - 130				11/01/21 12:16	11/03/21 19:17	
1,4-Difluorobenzene (Surr)	110		70 - 130				11/01/21 12:16	11/03/21 19:17	
Method: Total BTEX - Total BTE	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/09/21 10:40	
Analyte Total TPH	Result <49.8	Qualifier U	— RL 49.8	MDL	Unit mg/Kg	D	Prepared	Analyzed 11/05/21 13:50	Dil Fa
Total TPH	<49.8	U	49.8		mg/Kg			11/05/21 13:50	,
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/03/21 11:37	11/04/21 13:16	•
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/03/21 11:37	11/04/21 13:16	,
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/03/21 11:37	11/04/21 13:16	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	93		70 - 130				11/03/21 11:37	11/04/21 13:16	
o-Terphenyl	106		70 - 130				11/03/21 11:37	11/04/21 13:16	
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
						_			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

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Lab Sample ID: 890-1502-86

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-86 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:16	11/03/21 19:37	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:16	11/03/21 19:37	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:16	11/03/21 19:37	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/01/21 12:16	11/03/21 19:37	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:16	11/03/21 19:37	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/01/21 12:16	11/03/21 19:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				11/01/21 12:16	11/03/21 19:37	1
1,4-Difluorobenzene (Surr)	100		70 - 130				11/01/21 12:16	11/03/21 19:37	1
- Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			11/09/21 10:40	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
							<u> </u>		Diriac
Total TPH	<50.0	U	50.0		mg/Kg			11/08/21 15:54	
- -			50.0		mg/Kg		<u> </u>		
Method: 8015B NM - Diesel Ran	ge Organics (D		50.0 RL	MDL			Prepared		1
Method: 8015B NM - Diesel Ran Analyte	ge Organics (D	RO) (GC) Qualifier		MDL		D	Prepared 11/03/21 11:37	11/08/21 15:54	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (Di	RO) (GC) Qualifier	RL	MDL	Unit	<u>D</u>		11/08/21 15:54 Analyzed	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D Result <50.0	RO) (GC) Qualifier U	RL 50.0	MDL	Unit mg/Kg	<u>D</u>	11/03/21 11:37	11/08/21 15:54 Analyzed 11/04/21 13:38	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (DI Result <50.0	RO) (GC) Qualifier U	RL 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/03/21 11:37	11/08/21 15:54 Analyzed 11/04/21 13:38 11/04/21 13:38	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D) Result <50.0 <50.0 <50.0	RO) (GC) Qualifier U	RL 50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/03/21 11:37 11/03/21 11:37 11/03/21 11:37	Analyzed 11/04/21 13:38 11/04/21 13:38 11/04/21 13:38	Dil Face 1 1 1 Dil Face
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	ge Organics (D) Result <50.0 <50.0 <80.0 80.0 80.0 80.0 80.0 80.0 80.0 80.0 80.0 80.0 80.0 80.0 80.0	RO) (GC) Qualifier U	RL 50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/03/21 11:37 11/03/21 11:37 11/03/21 11:37 Prepared	Analyzed 11/04/21 13:38 11/04/21 13:38 11/04/21 13:38 Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	ge Organics (D) Result <50.0 <50.0 <50.0 <80.0 80.0 80.0 80.0 110	RO) (GC) Qualifier U U Qualifier	RL 50.0 50.0 50.0 50.0 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/03/21 11:37 11/03/21 11:37 11/03/21 11:37 Prepared 11/03/21 11:37	11/08/21 15:54 Analyzed 11/04/21 13:38 11/04/21 13:38 Analyzed 11/04/21 13:38	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	ge Organics (D) Result <50.0 <50.0 <50.0 **Recovery 93 110 omatography -	RO) (GC) Qualifier U U Qualifier	RL 50.0 50.0 50.0 50.0 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	11/03/21 11:37 11/03/21 11:37 11/03/21 11:37 Prepared 11/03/21 11:37	11/08/21 15:54 Analyzed 11/04/21 13:38 11/04/21 13:38 Analyzed 11/04/21 13:38	Dil Fac

Client Sample ID: BH-87 (15)

Date Collected: 10/28/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 19:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 19:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 19:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 12:16	11/03/21 19:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 19:57	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 12:16	11/03/21 19:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				11/01/21 12:16	11/03/21 19:57	

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Lab Sample ID: 890-1502-87

Matrix: Solid

Lab Sample ID: 890-1502-87

11/03/21 11:37 11/04/21 13:59

Lab Sample ID: 890-1502-88

Matrix: Solid

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-87 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 8021B - Volatile Or	ganic Compounds	(GC) (Continued)
Michigal COLID Volume Of	gaine compounds	(GG) (GG) (GG)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98	70 - 130	11/01/21 12:16	11/03/21 19:57	1

Mothod	Total BTEX	Total B	TEV Ca	loulation
wetnoa:	TOTAL BIEN	Total 🗖		liculation

Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg				11/09/21 10:40	1

Analyte	Result	Qualifier	RL	MDL U	nit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	m	ng/Kg			11/08/21 15:54	1

Method: 8015B	NM - Diesel	Range Oro	anice (DRO)	(GC)
Methou. ou 136	MINI - DIESEI	Range Org	jailius (DRU)	GC)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		11/03/21 11:37	11/04/21 13:59	1
(GRO)-C6-C10								
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/03/21 11:37	11/04/21 13:59	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/03/21 11:37	11/04/21 13:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			11/03/21 11:37	11/04/21 13:59	1

o-Terphenyl	110)
	 . 01	0 - 1 - 1 - 1 -

wethou. 300.0 - Allions, foll Chron	ialography - 30	Jiubie							
Analyte	Result Qu	ualifier R	L MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	1500	5.0		ma/Ka			11/09/21 13:22	1	

70 - 130

Client Sample ID: BH-88 (15)

Date Collected: 10/28/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Mothod: 9021D	Volatile Organie	Compounds (GC)
I WIELIIOU. OUZ ID '	- voiatile Organic	Compounds (GC)

		(/							
Analyte	Result	Qualifier	RL	MDL U	Init	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	m	ng/Kg		11/01/21 12:16	11/03/21 20:18	1
Toluene	<0.00200	U	0.00200	m	ng/Kg		11/01/21 12:16	11/03/21 20:18	1
Ethylbenzene	<0.00200	U	0.00200	m	ng/Kg		11/01/21 12:16	11/03/21 20:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	m	ng/Kg		11/01/21 12:16	11/03/21 20:18	1
o-Xylene	<0.00200	U	0.00200	m	ng/Kg		11/01/21 12:16	11/03/21 20:18	1
Xylenes, Total	<0.00400	U	0.00400	m	ng/Kg		11/01/21 12:16	11/03/21 20:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				11/01/21 12:16	11/03/21 20:18	1
1,4-Difluorobenzene (Surr)	101		70 - 130				11/01/21 12:16	11/03/21 20:18	1

Mothod:	Total RTF	Y - Total R	TFX Calculatio	n

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			11/09/21 10:40	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/08/21 15:54	1

Lab Sample ID: 890-1502-88

11/04/21 14:20

Lab Sample ID: 890-1502-89

Matrix: Solid

11/03/21 11:37

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-88 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Sample Depth: 15									
Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Gasoline Range Organics <50.0 U 50.0 mg/Kg 11/03/21 11:37 11/04/21 14:20 (GRO)-C6-C10									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		11/03/21 11:37	11/04/21 14:20	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/03/21 11:37	11/04/21 14:20	1

C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 11/03/21 11:37 11/04/21 14:20 %Recovery Qualifier Dil Fac Limits Analyzed Surrogate Prepared 70 - 130 11/03/21 11:37 11/04/21 14:20 1-Chlorooctane 98

70 - 130

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Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2390		25.2		mg/Kg			11/09/21 13:30	5

Client Sample ID: BH-89 (15)

Date Collected: 10/28/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

o-Terphenyl

Method: 8021B - Volatile Or	ganic Compounds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:16	11/03/21 20:38	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:16	11/03/21 20:38	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:16	11/03/21 20:38	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/01/21 12:16	11/03/21 20:38	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:16	11/03/21 20:38	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/01/21 12:16	11/03/21 20:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	11/01/21 12:16	11/03/21 20:38	1
1,4-Difluorobenzene (Surr)	112		70 - 130	11/01/21 12:16	11/03/21 20:38	1

 Method: Total BTEX - Total BTEX Calculation

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Factor

 Total BTEX
 < 0.00396</td>
 U
 0.00396
 mg/Kg
 11/09/21 10:40
 1

Method: 8015 NM - Diesel Range C	Organics (DRC) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/08/21 15:54	1

Method: 8015B NM - Diesel Range	Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/03/21 11:37	11/04/21 14:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/03/21 11:37	11/04/21 14:41	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/03/21 11:37	11/04/21 14:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	11/03/21 11:37	11/04/21 14:41	1
o-Terphenyl	107		70 - 130	11/03/21 11:37	11/04/21 14:41	1

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

Client Sample ID: BH-89 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Lab Sample ID: 890-1502-89

Matrix: Solid

	Method: 300.0 - Anions, Ion Chrom	atography -	Soluble							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	2630		24.9		mg/Kg			11/09/21 13:38	5

Client Sample ID: BH90 (RS) (6) Lab Sample ID: 890-1502-90 Matrix: Solid

Date Collected: 10/28/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:16	11/03/21 20:59	
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:16	11/03/21 20:59	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:16	11/03/21 20:59	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/21 12:16	11/03/21 20:59	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:16	11/03/21 20:59	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/21 12:16	11/03/21 20:59	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				11/01/21 12:16	11/03/21 20:59	1
1,4-Difluorobenzene (Surr)	126		70 - 130				11/01/21 12:16	11/03/21 20:59	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/08/21 15:54	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 15:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 15:03	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 15:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				11/03/21 11:37	11/04/21 15:03	1
o-Terphenyl	112		70 - 130				11/03/21 11:37	11/04/21 15:03	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<u> </u>									

Lab Sample ID: 890-1502-91

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-91 (RS) (6)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:16	11/03/21 22:48	
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:16	11/03/21 22:48	•
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:16	11/03/21 22:48	•
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/21 12:16	11/03/21 22:48	
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:16	11/03/21 22:48	•
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/21 12:16	11/03/21 22:48	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	114		70 - 130				11/01/21 12:16	11/03/21 22:48	
1,4-Difluorobenzene (Surr)	111		70 - 130				11/01/21 12:16	11/03/21 22:48	
- Method: Total BTEX - Total BTE)	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/09/21 10:40	
Analyte Total TPH	Result <49.9	Qualifier U	49.9	MDL	mg/Kg	D	Prepared	Analyzed 11/08/21 15:54	Dil Fa
Total TPH				WIDE		=			— DII Fat
Method: 8015B NM - Diesel Rang	ge Organics (Di	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 15:46	•
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 15:46	
5 5 ·	<49.9 <49.9		49.9 49.9		mg/Kg		11/03/21 11:37 11/03/21 11:37	11/04/21 15:46 11/04/21 15:46	
C10-C28)		U							
C10-C28) OII Range Organics (Over C28-C36)	<49.9	U	49.9				11/03/21 11:37	11/04/21 15:46	Dil Fac
C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.9 %Recovery	U	49.9				11/03/21 11:37 Prepared	11/04/21 15:46 Analyzed	Dil Fa
C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.9	U Qualifier	49.9 <i>Limits</i> 70 - 130				11/03/21 11:37 Prepared 11/03/21 11:37	11/04/21 15:46 Analyzed 11/04/21 15:46	Dil Fac
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<49.9 **Recovery 92 107 omatography -	U Qualifier	49.9 <i>Limits</i> 70 - 130	MDL	mg/Kg	<u>D</u>	11/03/21 11:37 Prepared 11/03/21 11:37	11/04/21 15:46 Analyzed 11/04/21 15:46	Dil Fac

Client Sample ID: SW-1 (0-6)
Date Collected: 10/25/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 0 - 6

REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-1502-92

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 23:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 23:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 23:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:16	11/03/21 23:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 23:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 12:16	11/03/21 23:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				11/01/21 12:16	11/03/21 23:09	

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: SW-1 (0-6)

Date Collected: 10/25/21 00:00 Date Received: 10/29/21 12:45 Sample Depth: 0 - 6 REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-1502-92

Matrix: Solid

4

6

Ω

46

40

13

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	122		70 - 130				11/01/21 12:16	11/03/21 23:09	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			11/09/21 10:40	•
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	331		49.9		mg/Kg			11/08/21 15:54	
· Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 16:07	1
Diesel Range Organics (Over C10-C28)	331		49.9		mg/Kg		11/03/21 11:37	11/04/21 16:07	,
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 16:07	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	90		70 - 130				11/03/21 11:37	11/04/21 16:07	
o-Terphenyl	106		70 - 130				11/03/21 11:37	11/04/21 16:07	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1430		25.1		mg/Kg			11/07/21 02:54	5

Client Sample ID: SW-2 (0-6)

Lab Sample ID: 890-1502-93

Date Collected: 10/25/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 0 - 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 23:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 23:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 23:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 12:16	11/03/21 23:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 23:29	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 12:16	11/03/21 23:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				11/01/21 12:16	11/03/21 23:29	1
1,4-Difluorobenzene (Surr)	74		70 - 130				11/01/21 12:16	11/03/21 23:29	1
- Method: Total BTEX - Total B	ΓEX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Rar	nge Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			49.9		mg/Kg			11/08/21 15:54	

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Da Date Received: 10/29/21 12:45

Sample Depth: 0 - 6

Client Sample ID: SW-2 (0-6)	Lab Sample ID: 890-1502-93
ate Collected: 10/25/21 00:00	Matrix: Solid

Method: 8015B NM - Diesel Rang	•	, , ,							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 16:29	1
(GRO)-C6-C10									
Diesel Range Organics (Over	74.3		49.9		mg/Kg		11/03/21 11:37	11/04/21 16:29	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 16:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				11/03/21 11:37	11/04/21 16:29	1
o-Terphenyl	106		70 - 130				11/03/21 11:37	11/04/21 16:29	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.4		4.98		mg/Kg			11/07/21 03:16	1

Client Sample ID: SW-3 (0-6)

Date Collected: 10/25/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 0 - 6

REMOVED FROM **ANALYSIS TABLE**

Lab Sample ID: 890-1502-94

Matrix: Solid

Method: 8021B - Volatile Organic	, compounds (,							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:16	11/03/21 23:49	1
Toluene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:16	11/03/21 23:49	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:16	11/03/21 23:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:16	11/03/21 23:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:16	11/03/21 23:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:16	11/03/21 23:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				11/01/21 12:16	11/03/21 23:49	1
1,4-Difluorobenzene (Surr)	97		70 - 130				11/01/21 12:16	11/03/21 23:49	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	•	O) (GC)							
Analyte		_							
		Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	Result <49.9		RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/08/21 15:54	Dil Fac
	<49.9	U		MDL		<u>D</u>	Prepared		
Total TPH	<49.9	U				<u>D</u>	Prepared Prepared		
Total TPH Method: 8015B NM - Diesel Rang	<49.9	RO) (GC) Qualifier	49.9		mg/Kg			11/08/21 15:54	1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<49.9 ge Organics (D Result	RO) (GC) Qualifier U	49.9		mg/Kg		Prepared	11/08/21 15:54 Analyzed	1 Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	<49.9 ge Organics (D Result <49.9	COO (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 11/03/21 11:37	11/08/21 15:54 Analyzed 11/04/21 16:51	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.9 ge Organics (D Result <49.9	CO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 11/03/21 11:37	11/08/21 15:54 Analyzed 11/04/21 16:51	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9 ge Organics (D) Result <49.9 <49.9	U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/03/21 11:37 11/03/21 11:37	11/08/21 15:54 Analyzed 11/04/21 16:51 11/04/21 16:51	1 Dil Fac 1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 ge Organics (D) Result <49.9 <49.9 <49.9	U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/03/21 11:37 11/03/21 11:37	Analyzed 11/04/21 16:51 11/04/21 16:51 11/04/21 16:51	1 Dil Fac 1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

Client Sample ID: SW-3 (0-6)

Date Collected: 10/25/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-94

REMOVED FROM ANALYSIS TABLE

Matrix: Solid

Sample Depth: 0 - 6

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1250		4.95		mg/Kg			11/07/21 03:24	1

Lab Sample ID: 890-1502-95

Client Sample ID: SW-4 (0-6) Date Collected: 10/25/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

Sample Depth: 0 - 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:16	11/04/21 00:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:16	11/04/21 00:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:16	11/04/21 00:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:16	11/04/21 00:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:16	11/04/21 00:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:16	11/04/21 00:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130				11/01/21 12:16	11/04/21 00:10	1
1,4-Difluorobenzene (Surr)	105		70 - 130				11/01/21 12:16	11/04/21 00:10	1
- Method: Total BTEX - Total B1	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	II	0.00398		mg/Kg		-	11/09/21 10:40	

*0.00000	Ü	0.00000		mg/rtg			11/05/21 10.40	
organics (DR	O) (GC)							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<50.0	U	50.0		mg/Kg			11/08/21 15:54	1
Organics (D	RO) (GC)							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<50.0	U	50.0		mg/Kg		11/03/21 11:37	11/04/21 17:14	1
<50.0	U	50.0		mg/Kg		11/03/21 11:37	11/04/21 17:14	1
<50.0	U	50.0		mg/Kg		11/03/21 11:37	11/04/21 17:14	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
90		70 - 130				11/03/21 11:37	11/04/21 17:14	1
107		70 - 130				11/03/21 11:37	11/04/21 17:14	1
	Organics (DR Result <50.0 Organics (DI Result <50.0 <50.0 <50.0 %Recovery 90	90	Result	Organics (DRO) (GC) Result Qualifier RL St. MDL <50.0 U	Organics (DRO) (GC) Result Qualifier RL St. MDL Unit mg/Kg -50.0 U 50.0 U 50.0 U mg/Kg Organics (DRO) (GC) Result Qualifier RL MDL Unit mg/Kg -50.0 U 50.0 U mg/Kg -50.0 U 50.0 mg/Kg -70.0 U 50.0 mg/Kg -70.130 -70.130	Organics (DRO) (GC) Result Qualifier RL mg/Kg MDL Unit mg/Kg D mg/Kg Organics (DRO) (GC) Result Qualifier RL MDL Unit mg/Kg D mg/Kg <50.0 U 50.0 mg/Kg	Organics (DRO) (GC) Result Qualifier RL St. St. St. St. St. St. St. St. St. St.	Organics (DRO) (GC) Result Qualifier RL Store (DRO) (GC) MDL Unit mg/Kg Description (DRO)

Method: 300.0 - Anions, Ion Chroma	atography - S	oluble						
Analyte	Result (Qualifier	RL	MDL Un	it D	Prepared	Analyzed	Dil Fac
Chloride	1060		4.99	mg	g/Kg		11/07/21 03:46	1

Lab Sample ID: 890-1502-96

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: SW-5 (0-6)

Date Collected: 10/25/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 0 - 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:16	11/04/21 00:30	
Toluene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:16	11/04/21 00:30	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:16	11/04/21 00:30	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		11/01/21 12:16	11/04/21 00:30	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:16	11/04/21 00:30	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		11/01/21 12:16	11/04/21 00:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130				11/01/21 12:16	11/04/21 00:30	1
1,4-Difluorobenzene (Surr)	110		70 - 130				11/01/21 12:16	11/04/21 00:30	1
· Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range Analyte		O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range			RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range		Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/08/21 15:54	
Method: 8015 NM - Diesel Range Analyte	Result <49.8 ge Organics (Di	Qualifier U RO) (GC)	49.8		mg/Kg	-		11/08/21 15:54	1
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Result <49.8 ge Organics (Di Result	Qualifier U RO) (GC) Qualifier		MDL	mg/Kg	<u>D</u>	Prepared Prepared	11/08/21 15:54 Analyzed	1
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <49.8 ge Organics (Di	Qualifier U RO) (GC) Qualifier	49.8		mg/Kg	-		11/08/21 15:54	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.8 ge Organics (Di Result	Qualifier U RO) (GC) Qualifier U	49.8 RL		mg/Kg	-	Prepared	11/08/21 15:54 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.8 ge Organics (Di Result <49.8	Qualifier U RO) (GC) Qualifier U	49.8 RL 49.8		mg/Kg Unit mg/Kg	-	Prepared 11/03/21 11:37	11/08/21 15:54 Analyzed 11/04/21 17:35	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8	Qualifier U RO) (GC) Qualifier U U	49.8 RL 49.8 49.8		mg/Kg Unit mg/Kg mg/Kg	-	Prepared 11/03/21 11:37	11/08/21 15:54 Analyzed 11/04/21 17:35 11/04/21 17:35	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.8	Qualifier U RO) (GC) Qualifier U U	49.8 RL 49.8 49.8 49.8		mg/Kg Unit mg/Kg mg/Kg	-	Prepared 11/03/21 11:37 11/03/21 11:37	11/08/21 15:54 Analyzed 11/04/21 17:35 11/04/21 17:35	Dil Face
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.8	Qualifier U RO) (GC) Qualifier U U	49.8 49.8 49.8 49.8 Limits		mg/Kg Unit mg/Kg mg/Kg	-	Prepared 11/03/21 11:37 11/03/21 11:37 11/03/21 11:37 Prepared	11/08/21 15:54 Analyzed 11/04/21 17:35 11/04/21 17:35 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.8	Qualifier U RO) (GC) Qualifier U U Qualifier	49.8 49.8 49.8 49.8 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg	-	Prepared 11/03/21 11:37 11/03/21 11:37 11/03/21 11:37 Prepared 11/03/21 11:37	11/08/21 15:54 Analyzed 11/04/21 17:35 11/04/21 17:35 Analyzed 11/04/21 17:35	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.8	Qualifier U RO) (GC) Qualifier U U Qualifier	49.8 49.8 49.8 49.8 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg	-	Prepared 11/03/21 11:37 11/03/21 11:37 11/03/21 11:37 Prepared 11/03/21 11:37	11/08/21 15:54 Analyzed 11/04/21 17:35 11/04/21 17:35 Analyzed 11/04/21 17:35	Dil Fac Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac

Client Sample ID: SW-6 (0-6)
Date Collected: 10/25/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 0 - 6

REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-1502-97

Matrix: Solid

Method: 8021B - Volatile Orga	nic Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/04/21 00:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/04/21 00:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/04/21 00:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 12:16	11/04/21 00:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/04/21 00:51	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 12:16	11/04/21 00:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				11/01/21 12:16	11/04/21 00:51	1

Client Sample Results

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

Client Sample ID: SW-6 (0-6)

Date Collected: 10/25/21 00:00 Date Received: 10/29/21 12:45 Sample Depth: 0 - 6 REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-1502-97

Matrix: Solid

4

_

8

10

12

13

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130				11/01/21 12:16	11/04/21 00:51	-
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/09/21 10:40	
Method: 8015 NM - Diesel Range	o Organics (DR	O) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	988		49.9		mg/Kg			11/08/21 15:54	
Method: 8015B NM - Diesel Rang	ge Organics (Di	RO) (GC)							
Method: 8015B NM - Diesel Rang Analyte	Result	Qualifier	RL	MDL		D	Prepared 14,007	Analyzed	Dil Fac
Analyte Gasoline Range Organics		Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared 11/03/21 11:37	Analyzed 11/04/21 17:56	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier		MDL		<u>D</u>			Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier U	49.9	MDL	mg/Kg	<u>D</u>	11/03/21 11:37	11/04/21 17:56	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U	49.9	MDL	mg/Kg	<u>D</u>	11/03/21 11:37	11/04/21 17:56 11/04/21 17:56	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	Result <49.9 988 <49.9	Qualifier U	49.9 49.9 49.9	MDL	mg/Kg	<u>D</u>	11/03/21 11:37 11/03/21 11:37 11/03/21 11:37	11/04/21 17:56 11/04/21 17:56 11/04/21 17:56	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U	49.9 49.9 49.9 <i>Limits</i>	MDL	mg/Kg	<u>D</u>	11/03/21 11:37 11/03/21 11:37 11/03/21 11:37 Prepared	11/04/21 17:56 11/04/21 17:56 11/04/21 17:56 Analyzed	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U Qualifier	49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg	<u>D</u>	11/03/21 11:37 11/03/21 11:37 11/03/21 11:37 Prepared 11/03/21 11:37	11/04/21 17:56 11/04/21 17:56 11/04/21 17:56 Analyzed 11/04/21 17:56	

49.8

mg/Kg

Client Sample ID: SW-7 (0-6)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45 Sample Depth: 0 - 6

Chloride

REMOVED FROM ANALYSIS TABLE

7870

Lab Sample ID: 890-1502-98

11/07/21 04:01

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:16	11/04/21 01:11	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:16	11/04/21 01:11	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:16	11/04/21 01:11	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/21 12:16	11/04/21 01:11	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:16	11/04/21 01:11	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/21 12:16	11/04/21 01:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				11/01/21 12:16	11/04/21 01:11	1
1,4-Difluorobenzene (Surr)	96		70 - 130				11/01/21 12:16	11/04/21 01:11	1
- Method: Total BTEX - Total B1	ΓEX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/09/21 10:40	1
· Method: 8015 NM - Diesel Rar	nge Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	86.9		49.9		mg/Kg			11/08/21 15:54	

REMOVED FROM

ANALYSIS TABLE

REMOVED FROM

ANALYSIS TABLE

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

Client Sample ID: SW-7 (0-6)

Lab Sample ID: 890-1502-98

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 0 - 6

Lub	Cumpic	 000	1002 0	•
		Ma	trix: Soli	d

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 18:17	1
Diesel Range Organics (Over C10-C28)	86.9		49.9		mg/Kg		11/03/21 11:37	11/04/21 18:17	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 18:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				11/03/21 11:37	11/04/21 18:17	1
o-Terphenyl	109		70 - 130				11/03/21 11:37	11/04/21 18:17	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6430		50.0		mg/Kg			11/07/21 04:08	10

Lab Sample ID: 890-1502-99

Matrix: Solid

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Client Sample ID: SW-8 (0-6)

Sample Depth: 0 - 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/04/21 01:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/04/21 01:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/04/21 01:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:16	11/04/21 01:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/04/21 01:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 12:16	11/04/21 01:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				11/01/21 12:16	11/04/21 01:31	1
1,4-Difluorobenzene (Surr)	104		70 - 130				11/01/21 12:16	11/04/21 01:31	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
_		O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH			RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/08/21 15:54	Dil Fac
Analyte	Result 651	Qualifier		MDL		<u>D</u>	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Range	Result 651 e Organics (Di	Qualifier				D_	Prepared Prepared		1
Analyte Total TPH	Result 651 e Organics (Di	Qualifier RO) (GC) Qualifier	49.9		mg/Kg			11/08/21 15:54	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 651 e Organics (D Result	Qualifier RO) (GC) Qualifier	49.9		mg/Kg		Prepared	11/08/21 15:54 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	Result 651 e Organics (Di Result <49.9	Qualifier RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 11/03/21 11:37	11/08/21 15:54 Analyzed 11/04/21 18:39	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 651	Qualifier RO) (GC) Qualifier U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/03/21 11:37 11/03/21 11:37	11/08/21 15:54 Analyzed 11/04/21 18:39 11/04/21 18:39	
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 651 e Organics (Di Result <49.9 651 <49.9	Qualifier RO) (GC) Qualifier U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/03/21 11:37 11/03/21 11:37	Analyzed 11/04/21 18:39 11/04/21 18:39 11/04/21 18:39	1 Dil Fac

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-8 (0-6)

Date Received: 10/29/21 12:45

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-1502-99

Matrix: Solid

Date Collected: 10/26/21 00:00

Sample Depth: 0 - 6

Method: 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Analyte RL MDL Unit D Dil Fac Prepared Analyzed 25.0 11/07/21 04:15 Chloride 4070 mg/Kg

Lab Sample ID: 890-1502-100

Matrix: Solid

Client Sample ID: SW-9 (0-6) Date Collected: 10/26/21 00:00

Date Received: 10/29/21 12:45 Sample Depth: 0 - 6

REMOVED FROM ANALYSIS TABLE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/04/21 01:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/04/21 01:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/04/21 01:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 12:16	11/04/21 01:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/04/21 01:52	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 12:16	11/04/21 01:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				11/01/21 12:16	11/04/21 01:52	1
1,4-Difluorobenzene (Surr)	101		70 - 130				11/01/21 12:16	11/04/21 01:52	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399 U	0.00399	mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range C	Organics (DRO) (GC)						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac

-							•	-	
Total TPH	<49.8	U	49.8		mg/Kg			11/08/21 15:54	1
- Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		11/03/21 11:37	11/04/21 19:01	
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/03/21 11:37	11/04/21 19:01	•
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/03/21 11:37	11/04/21 19:01	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				11/03/21 11:37	11/04/21 19:01	-
o-Terphenyl	112		70 - 130				11/03/21 11:37	11/04/21 19:01	1

Method: 300.0 - Anions, Ion Chroma	atography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2870	24.8	mg/Kg			11/07/21 04:23	5

Eurofins Xenco, Carlsbad

11/10/2021

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

Lab Sample ID: 890-1502-101

Matrix: Solid

Client Sample ID: SW-10 (0-6) Date Collected: 10/26/21 00:00

REMOVED FROM ANALYSIS TABLE Date Received: 10/29/21 12:45

Method: 8021B - Volatile Organi Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F2 F1	0.00200		mg/Kg		11/01/21 12:18	11/04/21 05:28	1
Toluene	<0.00200	U F2 F1	0.00200		mg/Kg		11/01/21 12:18	11/04/21 05:28	1
Ethylbenzene	<0.00200	U F2 F1	0.00200		mg/Kg		11/01/21 12:18	11/04/21 05:28	1
m-Xylene & p-Xylene	<0.00399	U F2 F1	0.00399		mg/Kg		11/01/21 12:18	11/04/21 05:28	1
o-Xylene	<0.00200	U F2 F1	0.00200		mg/Kg		11/01/21 12:18	11/04/21 05:28	1
Xylenes, Total	<0.00399	U F2 F1	0.00399		mg/Kg		11/01/21 12:18	11/04/21 05:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				11/01/21 12:18	11/04/21 05:28	1
1,4-Difluorobenzene (Surr)	92		70 - 130				11/01/21 12:18	11/04/21 05:28	1
Method: Total BTEX - Total BTE	X Calculation								
Method: Total BTEX - Total BTE Analyte Total BTEX		Qualifier U	RL 0.00399	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/09/21 10:40	Dil Fac
Analyte	Result <0.00399	U (GC)	0.00399		mg/Kg	<u>D</u>	Prepared		1
Analyte Total BTEX Method: 8015 NM - Diesel Rango Analyte	Result <0.00399 e Organics (DR	U O) (GC) Qualifier	0.00399			<u>D</u>	Prepared Prepared	11/09/21 10:40 Analyzed	1
Analyte Total BTEX Method: 8015 NM - Diesel Rang	Result <0.00399	U O) (GC) Qualifier	0.00399		mg/Kg			11/09/21 10:40	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Rango Analyte	Result	O) (GC) Qualifier	0.00399		mg/Kg Unit			11/09/21 10:40 Analyzed	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Rango Analyte Total TPH	e Organics (DR) Result <49.9 ge Organics (D	O) (GC) Qualifier	0.00399	MDL	mg/Kg Unit			11/09/21 10:40 Analyzed	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Ran	e Organics (DR) Result <49.9 ge Organics (D	O) (GC) Qualifier U RO) (GC) Qualifier	0.00399 RL 49.9	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	11/09/21 10:40 Analyzed 11/08/21 15:54	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics	e Organics (DR Result <49.9 ge Organics (D Result	U (GC) Qualifier U RO) (GC) Qualifier U *1	0.00399 RL 49.9	MDL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	11/09/21 10:40 Analyzed 11/08/21 15:54 Analyzed	

Surroyate	70Necovery	Quaimer	Lillits	rrepareu	Allalyzeu	DII Fac
1-Chlorooctane	100		70 - 130	11/03/21 13:15	11/04/21 11:05	1
o-Terphenyl	100		70 - 130	11/03/21 13:15	11/04/21 11:05	1
Method: 300.0 - Anions, Ion Chrom	natography -	Soluble				

Analyte Result Qualifier

RL MDL Unit D Prepared Dil Fac Analyzed 25.2 11/07/21 04:30 Chloride 4090 mg/Kg

Client Sample ID: SW-11 (0-6) Date Collected: 10/26/21 00:00

Date Received: 10/29/21 12:45 Sample Depth: 0 - 6

REMOVED FROM ANALYSIS TABLE

113

Lab Sample ID: 890-1502-102

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 05:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 05:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 05:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:18	11/04/21 05:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 05:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 12:18	11/04/21 05:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analvzed	Dil Fac

Eurofins Xenco, Carlsbad

11/04/21 05:49

11/01/21 12:18

70 - 130

4-Bromofluorobenzene (Surr)

11/10/2021

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: SW-11 (0-6)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45 Sample Depth: 0 - 6 REMOVED FROM ANALYSIS TABLE

<49.9 U

%Recovery Qualifier

Result Qualifier

106

104

1060

<50.0 U

Lab Sample ID: 890-1502-102

11/04/21 12:11

Analyzed

11/04/21 12:11 11/04/21 12:11

Analyzed

11/08/21 09:36

Matrix: Solid

Jilu -

6

Ω

10

12

13

Dil Fac

Dil Fac

Method: 8021B - Volatile Orga	nic Compounds ((GC) (Conti	nued)						
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	88		70 - 130				11/01/21 12:18	11/04/21 05:49	1
Method: Total BTEX - Total BT	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Ran	ige Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/08/21 15:54	1
Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U *1	49.9		mg/Kg		11/03/21 13:15	11/04/21 12:11	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/03/21 13:15	11/04/21 12:11	1

49.9

Limits

70 - 130

70 - 130

mg/Kg

MDL Unit

mg/Kg

mg/Kg

11/03/21 13:15

Prepared

11/03/21 13:15

11/03/21 13:15

Prepared

Client Sample ID: SW-12 (10)

Date Collected: 10/26/21 00:00

Lab Sample ID: 890-1502-103

Matrix: Solid

RL

4.99

Date Received: 10/29/21 12:45

Method: 300.0 - Anions, Ion Chromatography - Soluble

OII Range Organics (Over C28-C36)

Sample Depth: 10

C10-C28)

Surrogate

o-Terphenyl

Analyte

Chloride

Total TPH

1-Chlorooctane

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 06:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 06:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 06:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:18	11/04/21 06:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 06:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:18	11/04/21 06:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130				11/01/21 12:18	11/04/21 06:09	1
1,4-Difluorobenzene (Surr)	113		70 - 130				11/01/21 12:18	11/04/21 06:09	1
- Method: Total BTEX - Total B	ΓEX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/09/21 10:40	1
– Method: 8015 NM - Diesel Rar	nge Organics (DR	O) (GC)							

Eurofins Xenco, Carlsbad

11/08/21 15:54

50.0

Lab Sample ID: 890-1502-103

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: SW-12 (10)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		11/03/21 13:15	11/04/21 12:32	1
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/03/21 13:15	11/04/21 12:32	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/21 13:15	11/04/21 12:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				11/03/21 13:15	11/04/21 12:32	1
o-Terphenyl	98		70 - 130				11/03/21 13:15	11/04/21 12:32	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SW-13 (15)

Date Collected: 10/26/21 00:00

Lab Sample ID: 890-1502-104

Matrix: Solid

Date Received: 10/29/21 12:45

Date (Cecivea: 10/25/21 12:40

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:18	11/04/21 06:29	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:18	11/04/21 06:29	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:18	11/04/21 06:29	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/21 12:18	11/04/21 06:29	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:18	11/04/21 06:29	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/21 12:18	11/04/21 06:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				11/01/21 12:18	11/04/21 06:29	1
1,4-Difluorobenzene (Surr)	110		70 - 130				11/01/21 12:18	11/04/21 06:29	1
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	96.1		50.0		mg/Kg			11/08/21 15:54	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		11/03/21 13:15	11/04/21 12:55	1
Diesel Range Organics (Over C10-C28)	96.1		50.0		mg/Kg		11/03/21 13:15	11/04/21 12:55	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/21 13:15	11/04/21 12:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				11/03/21 13:15	11/04/21 12:55	1
o-Terphenyl	83		70 - 130				11/03/21 13:15	11/04/21 12:55	1

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Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-13 (15) Lab Sample ID: 890-1502-104

Date Collected: 10/26/21 00:00 Matrix: Solid Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 300.0 - Anions, Ion Chroma	tography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1840		24.9		mg/Kg			11/08/21 09:57	5

Lab Sample ID: 890-1502-105 Client Sample ID: SW-14 (15) Matrix: Solid

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 06:50	
Toluene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 06:50	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 06:50	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:18	11/04/21 06:50	
o-Xylene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 06:50	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:18	11/04/21 06:50	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130				11/01/21 12:18	11/04/21 06:50	
1,4-Difluorobenzene (Surr)	108		70 - 130				11/01/21 12:18	11/04/21 06:50	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/09/21 10:40	•
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	56.3		49.8		mg/Kg			11/08/21 15:54	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		11/03/21 13:15	11/04/21 13:16	1
Diesel Range Organics (Over C10-C28)	56.3		49.8		mg/Kg		11/03/21 13:15	11/04/21 13:16	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/03/21 13:15	11/04/21 13:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	107		70 - 130				11/03/21 13:15	11/04/21 13:16	1
o-Terphenyl	106		70 - 130				11/03/21 13:15	11/04/21 13:16	
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	185		5.00		mg/Kg			11/08/21 10:07	

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-15 (15) Lab Sample ID: 890-1502-106

Date Collected: 10/26/21 00:00 Matrix: Solid Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 07:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 07:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 07:10	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/01/21 12:18	11/04/21 07:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 07:10	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/01/21 12:18	11/04/21 07:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				11/01/21 12:18	11/04/21 07:10	1
1,4-Difluorobenzene (Surr)	57	S1-	70 - 130				11/01/21 12:18	11/04/21 07:10	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg		<u> </u>	11/08/21 15:54	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		11/03/21 13:15	11/04/21 13:38	1
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/03/21 13:15	11/04/21 13:38	1
C10-C28)									
,	<50.0	U	50.0		mg/Kg		11/03/21 13:15	11/04/21 13:38	1
OII Range Organics (Over C28-C36)	<50.0		50.0 <i>Limits</i>		mg/Kg		11/03/21 13:15 Prepared	11/04/21 13:38 Analyzed	
Oll Range Organics (Over C28-C36) Surrogate					mg/Kg				Dil Fac
Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	%Recovery		Limits		mg/Kg		Prepared	Analyzed	Dil Fac
C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Chro	%Recovery 102 100	Qualifier	Limits 70 - 130		mg/Kg		Prepared 11/03/21 13:15	Analyzed 11/04/21 13:38	Dil Fac
Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 102 100 comatography -	Qualifier	Limits 70 - 130	MDL		D	Prepared 11/03/21 13:15	Analyzed 11/04/21 13:38	Dil Fac

Client Sample ID: SW-16 (15) Lab Sample ID: 890-1502-107

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 07:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 07:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 07:31	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 12:18	11/04/21 07:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 07:31	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 12:18	11/04/21 07:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130				11/01/21 12:18	11/04/21 07:31	

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Matrix: Solid

Lab Sample ID: 890-1502-107

Lab Sample ID: 890-1502-108

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-16 (15)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 8021B - Volatile Organic Compou	unds (GC) (Continued)
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Surrogate	%Recovery Qua	alifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	108	70 _ 130	11/01/21 12:18	11/04/21 07:31	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/09/21 10:40	1

Analyte	Result (Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8 l	U	49.8	mg/Kg			11/08/21 15:54	1

Method: 8015B	NM Discol	Dange Ore	aaniee (DD()) (CC)
MICHIOU. OU IOD	INIVI - DIESEI	Rallue Oli	ualiics lunc	JI (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		11/03/21 13:15	11/04/21 13:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/03/21 13:15	11/04/21 13:59	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/03/21 13:15	11/04/21 13:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				11/03/21 13:15	11/04/21 13:59	1

1-Chlorooctane	106	70 - 130
o-Terphenyl	105	70 - 130

	o-Terphenyl	105	70 - 130	11/03/21 13:15	11/04/21 13:59	1
ĺ	Method: 300.0 - Anions, Ion Chromatograp	hy - Soluble				

Analyte	Result Qualifier	r RL	MDL Uni	it D	Prepared	Analyzed	Dil Fac
Chloride	1170	4.96	mg	/Kg		11/08/21 10:49	1

Client Sample ID: SW-17 (15)

Date Collected: 10/26/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Mothod: 9021D	Volatile Organie	Compounds (GC)
I WIELIIOU. OUZ ID '	- voiatile Organic	Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 07:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 07:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 07:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:18	11/04/21 07:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 07:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 12:18	11/04/21 07:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				11/01/21 12:18	11/04/21 07:51	1
1,4-Difluorobenzene (Surr)	105		70 - 130				11/01/21 12:18	11/04/21 07:51	1

Mothod:	Total RTF	Y - Total R	TFX Calculatio	n

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			11/09/21 10:40	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	55.1	50.0	mg/Kg			11/08/21 15:54	1

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11/10/2021

Lab Sample ID: 890-1502-108

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-17 (15)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		11/03/21 13:15	11/04/21 14:20	1
Diesel Range Organics (Over C10-C28)	55.1		50.0		mg/Kg		11/03/21 13:15	11/04/21 14:20	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/21 13:15	11/04/21 14:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				11/03/21 13:15	11/04/21 14:20	1
o-Terphenyl	97		70 - 130				11/03/21 13:15	11/04/21 14:20	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		-	25.2		mg/Kg			11/08/21 11:00	5

Client Sample ID: SW-18 (15) Lab Sample ID: 890-1502-109 Date Collected: 10/26/21 00:00 Matrix: Solid

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 08:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 08:11	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 08:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:18	11/04/21 08:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 08:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:18	11/04/21 08:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				11/01/21 12:18	11/04/21 08:11	1
1,4-Difluorobenzene (Surr)	101		70 - 130				11/01/21 12:18	11/04/21 08:11	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/08/21 15:54	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		11/03/21 13:15	11/04/21 14:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/21 13:15	11/04/21 14:41	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 13:15	11/04/21 14:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				11/03/21 13:15	11/04/21 14:41	1

Lab Sample ID: 890-1502-109

Job ID: 890-1502-1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-18 (15)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	826		4.98		mg/Kg			11/08/21 11:10	1

Client Sample ID: SW-19 (15) Lab Sample ID: 890-1502-110 **Matrix: Solid**

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:18	11/04/21 08:32	
Toluene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:18	11/04/21 08:32	
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:18	11/04/21 08:32	
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/01/21 12:18	11/04/21 08:32	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:18	11/04/21 08:32	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/01/21 12:18	11/04/21 08:32	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				11/01/21 12:18	11/04/21 08:32	
1,4-Difluorobenzene (Surr)	83		70 - 130				11/01/21 12:18	11/04/21 08:32	1
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			11/09/21 10:40	1
Method: 8015 NM - Diesel Range	Organics (DR)	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/08/21 15:54	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	
							•		Dil Fac
5 5	<49.9	U *1	49.9		mg/Kg		11/03/21 13:15	11/04/21 15:03	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9 <49.9		49.9		mg/Kg mg/Kg		11/03/21 13:15 11/03/21 13:15		
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)		U				— –		11/04/21 15:03	1
(GRO)-C6-C10 Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/03/21 13:15	11/04/21 15:03 11/04/21 15:03	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)	<49.9 <49.9	U	49.9 49.9		mg/Kg		11/03/21 13:15 11/03/21 13:15	11/04/21 15:03 11/04/21 15:03 11/04/21 15:03	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	<49.9 <49.9 %Recovery	U	49.9 49.9 <i>Limits</i>		mg/Kg		11/03/21 13:15 11/03/21 13:15 Prepared	11/04/21 15:03 11/04/21 15:03 11/04/21 15:03 Analyzed	Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.9 <49.9 %Recovery 103 103	U U Qualifier	49.9 49.9 <u>Limits</u> 70 - 130		mg/Kg		11/03/21 13:15 11/03/21 13:15 Prepared 11/03/21 13:15	11/04/21 15:03 11/04/21 15:03 11/04/21 15:03 Analyzed 11/04/21 15:03	Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<49.9 <49.9 **Recovery 103 103 **Domatography -	U U Qualifier	49.9 49.9 <u>Limits</u> 70 - 130	MDL	mg/Kg		11/03/21 13:15 11/03/21 13:15 Prepared 11/03/21 13:15	11/04/21 15:03 11/04/21 15:03 11/04/21 15:03 Analyzed 11/04/21 15:03	Dil Fac

Lab Sample ID: 890-1502-111

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-20 (15)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:18	11/04/21 10:21	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:18	11/04/21 10:21	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:18	11/04/21 10:21	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/01/21 12:18	11/04/21 10:21	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:18	11/04/21 10:21	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/01/21 12:18	11/04/21 10:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				11/01/21 12:18	11/04/21 10:21	1
1,4-Difluorobenzene (Surr)	101		70 - 130				11/01/21 12:18	11/04/21 10:21	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			11/09/21 10:40	1
			DI.	MEN	11		Duamanad	Amalumad	Dil Fac
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9		RL 49.9	MDL	mg/Kg	<u>D</u>	Prepared	Analyzed 11/08/21 15:54	
Total TPH Method: 8015B NM - Diesel Ran	<49.9	U (GC)	49.9		mg/Kg	=	<u> </u>	11/08/21 15:54	1
Total TPH Method: 8015B NM - Diesel Rang Analyte	<49.9 ge Organics (D	RO) (GC) Qualifier	49.9		mg/Kg	<u>D</u>	Prepared	11/08/21 15:54 Analyzed	1
Total TPH	<49.9	RO) (GC) Qualifier	49.9		mg/Kg	=	<u> </u>	11/08/21 15:54	1 Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<49.9 ge Organics (D	RO) (GC) Qualifier U*1	49.9		mg/Kg	=	Prepared	11/08/21 15:54 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	que Organics (D) Result <49.9	U RO) (GC) Qualifier U*1	49.9 RL 49.9		mg/Kg Unit mg/Kg	=	Prepared 11/03/21 13:15	11/08/21 15:54 Analyzed 11/04/21 15:46	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9 ge Organics (Dispersion of the property of the	U RO) (GC) Qualifier U*1 U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/03/21 13:15 11/03/21 13:15	11/08/21 15:54 Analyzed 11/04/21 15:46 11/04/21 15:46	1 Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 ge Organics (Display="2">Result <49.9 <49.9 <49.9	U RO) (GC) Qualifier U*1 U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/03/21 13:15 11/03/21 13:15 11/03/21 13:15	11/08/21 15:54 Analyzed 11/04/21 15:46 11/04/21 15:46 11/04/21 15:46	Dil Face 1 1 1 Dil Face
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.9 ge Organics (Digital Result content of the content	U RO) (GC) Qualifier U*1 U	49.9 RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/03/21 13:15 11/03/21 13:15 11/03/21 13:15 Prepared	Analyzed 11/04/21 15:46 11/04/21 15:46 11/04/21 15:46 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.9 ge Organics (D) Result <49.9 <49.9 <49.9 **Recovery 104 105	CONTROL (GC) Qualifier U*1 U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/03/21 13:15 11/03/21 13:15 11/03/21 13:15 Prepared 11/03/21 13:15	11/08/21 15:54 Analyzed 11/04/21 15:46 11/04/21 15:46 Analyzed 11/04/21 15:46	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	qe Organics (D) Result <49.9 <49.9 <49.9 **Recovery 104 105 comatography -	CONTROL (GC) Qualifier U*1 U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/03/21 13:15 11/03/21 13:15 11/03/21 13:15 Prepared 11/03/21 13:15	11/08/21 15:54 Analyzed 11/04/21 15:46 11/04/21 15:46 Analyzed 11/04/21 15:46	Dil Fac Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac

Client Sample ID: SW-21 (15)

Date Collected: 10/26/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 10:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 10:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 10:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:18	11/04/21 10:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 10:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:18	11/04/21 10:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				11/01/21 12:18	11/04/21 10:41	

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1502-112

Matrix: Solid

Lab Sample ID: 890-1502-112

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-21 (15)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 8021B - Volatile Or	ganic Compounds	(GC) (Continued)
Michigal COLID Volume Of	gaine compounds	(GG) (GG) (GG)

Surrogate	%Recovery Qualifie	er Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	111	70 - 130	11/01/21 12:18	11/04/21 10:41	1

Mothod	Total BTEX	Total B	TEV Ca	loulation
wetnoa:	TOTAL BIEN	Total 🗖		liculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	1	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg				11/09/21 10:40	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)								
	Analyte	Result Qu	ualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	154	49.9	mg/K	g		11/08/21 15:54	1

Method: 8015B NM - Diesel Rang									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U *1	49.9		mg/Kg		11/03/21 13:15	11/04/21 16:07	1
(GRO)-C6-C10									
Discoul Demand Committee (Comm			40.0				44/00/04 40 45	44/04/04 40 07	

Diesel Range Organics (Over	154	49.9	mg/Kg	11/03/21 13:15	11/04/21 16:07	1
C10-C28) OII Range Organics (Over C28-C36)	<49.9 U	49.9	mg/Kg	11/03/21 13:15	11/04/21 16:07	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107	70 - 130	11/03/21 13	15 11/04/21 16:07	1
o-Terphenyl	107	70 - 130	11/03/21 13	15 11/04/21 16:07	1

Method: 300.0 - Anions, Ion	Chromatography - Soluble
A 14 -	D It O It Co

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5770		50.1		mg/Kg			11/08/21 12:02	10

Client Sample ID: SW-22 (15) Lab Sample ID: 890-1502-113 Matrix: Solid

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Mathad.	0024D	V-1-4:1-	O	Compounds	
wethod:	OUZID -	voiatile	Organic (Jompounas.	166

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 11:01	1
Toluene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 11:01	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 11:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:18	11/04/21 11:01	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 11:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:18	11/04/21 11:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				11/01/21 12:18	11/04/21 11:01	1
1,4-Difluorobenzene (Surr)	97		70 - 130				11/01/21 12:18	11/04/21 11:01	1

Method: Total BTEX - Total BTEX Calculation
Michiod. Total BTEX - Total BTEX Galculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/09/21 10:58	1

Method: 8015 NM - Diese	Range Organics	(DRO)	(GC)	
Method, out of Min - Diese	I Range Organics	(DIXO)	(00)	

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			11/08/21 15:54	1

Eurofins Xenco, Carlsbad

11/10/2021

Lab Sample ID: 890-1502-113

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-22 (15)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		11/03/21 13:15	11/04/21 16:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/21 13:15	11/04/21 16:29	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 13:15	11/04/21 16:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				11/03/21 13:15	11/04/21 16:29	1
o-Terphenyl	108		70 - 130				11/03/21 13:15	11/04/21 16:29	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SW-23 (15) Lab Sample ID: 890-1502-114 Date Collected: 10/26/21 00:00 Matrix: Solid

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:18	11/04/21 11:22	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:18	11/04/21 11:22	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:18	11/04/21 11:22	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/21 12:18	11/04/21 11:22	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:18	11/04/21 11:22	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/21 12:18	11/04/21 11:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				11/01/21 12:18	11/04/21 11:22	1
1,4-Difluorobenzene (Surr)	104		70 - 130				11/01/21 12:18	11/04/21 11:22	1
Method: Total BTEX - Total BTE)	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg	 _		11/09/21 10:58	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/08/21 15:54	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		11/03/21 13:15	11/04/21 16:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/21 13:15	11/04/21 16:51	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 13:15	11/04/21 16:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				11/03/21 13:15	11/04/21 16:51	1

Client Sample ID: SW-23 (15)

Date Collected: 10/26/21 00:00

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

Lab Sample ID: 890-1502-114

Matrix: Solid

Date Received: 10/29/21 12:45 Sample Depth: 15

Method: 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Dil Fac Analyte RL MDL Unit D Prepared Analyzed 11/08/21 12:43 4.96 Chloride 1070 mg/Kg

Client Sample ID: SW-24 (15) Lab Sample ID: 890-1502-115 **Matrix: Solid**

Date Collected: 10/26/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 11:42	
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 11:42	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 11:42	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:18	11/04/21 11:42	
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 11:42	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:18	11/04/21 11:42	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	110		70 - 130				11/01/21 12:18	11/04/21 11:42	
1,4-Difluorobenzene (Surr)	114		70 - 130				11/01/21 12:18	11/04/21 11:42	
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/09/21 10:58	
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/08/21 15:54	
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		11/03/21 13:15	11/04/21 17:14	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/21 13:15	11/04/21 17:14	,
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/21 13:15	11/04/21 17:14	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	107		70 - 130				11/03/21 13:15	11/04/21 17:14	-
o-Terphenyl	106		70 - 130				11/03/21 13:15	11/04/21 17:14	
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							

11/08/21 12:54

25.0

mg/Kg

2240

Chloride

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-25 (15)

Lab Sample ID: 890-1502-116 Date Collected: 10/26/21 00:00 Matrix: Solid Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 12:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 12:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 12:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:18	11/04/21 12:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 12:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 12:18	11/04/21 12:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130				11/01/21 12:18	11/04/21 12:03	1
1,4-Difluorobenzene (Surr)	108		70 - 130				11/01/21 12:18	11/04/21 12:03	1
Method: Total BTEX - Total BTE	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX - -	<0.00400	Ü	0.00400		mg/Kg			11/09/21 10:58	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/08/21 15:54	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		11/03/21 13:15	11/04/21 17:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/03/21 13:15	11/04/21 17:35	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/03/21 13:15	11/04/21 17:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				11/03/21 13:15	11/04/21 17:35	1
o-Terphenyl	105		70 - 130				11/03/21 13:15	11/04/21 17:35	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
mountain value 7 milente, ion one									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SW-26 (15) Lab Sample ID: 890-1502-117

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:18	11/04/21 12:23	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:18	11/04/21 12:23	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:18	11/04/21 12:23	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/01/21 12:18	11/04/21 12:23	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:18	11/04/21 12:23	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/01/21 12:18	11/04/21 12:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				11/01/21 12:18	11/04/21 12:23	

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Released to Imaging: 9/1/2023 2:55:43 PM

Matrix: Solid

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1

Lab Sample ID: 890-1502-117

11/03/21 13:15 11/04/21 17:56

Lab Sample ID: 890-1502-118

Matrix: Solid

SDG: 212C-MD-02230

Client Sample ID: SW-26 (15)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 8021B	- Volatile Organic	Compounds (G	C) (Continued)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	96	70 - 130	11/01/21 12:18	11/04/21 12:23	1

Method: To	otal BTFX - To	otal BTEX Cal	culation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg		_	11/09/21 10:58	1

Method: 8015 NM - Diesel Range Organics (DRO) (G	C
Method: 0013 NM - Dieser Range Organics (DIXO) (C	, ,

Analyte	Result (Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 l	U	49.9	mg/Kg			11/08/21 15:54	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		11/03/21 13:15	11/04/21 17:56	1
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/03/21 13:15	11/04/21 17:56	1
C10-C28) Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 13:15	11/04/21 17:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

1-Chlorooctane	104	70 - 130
o-Terphenyl	103	70 - 130

	o-Terpnenyi	103	70 - 130			11/03/21 13:15	11/04/21 17:56	7
	Method: 300.0 - Anions, Ion Chromatogra	phy - Soluble						
П	A I4 -	D 11 0 110	D.	MDI II!4	_	Danamana	A ll	B.: E

Allalyte	Result	Qualifici	IVE	WIDE	Oilit	 riepaieu	Allalyzeu	Diriac
Chloride	447		4.95		mg/Kg		11/08/21 13:15	1

Client Sample ID: SW-27 (15)

Date Collected: 10/26/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

Mothod: 0024D	Volotile	Organia	Compounds	(CC)

moniour cozina romanic organic		()							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00206		0.00201		mg/Kg		11/01/21 12:18	11/04/21 12:44	1
Toluene	0.00205		0.00201		mg/Kg		11/01/21 12:18	11/04/21 12:44	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:18	11/04/21 12:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/21 12:18	11/04/21 12:44	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:18	11/04/21 12:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/21 12:18	11/04/21 12:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				11/01/21 12:18	11/04/21 12:44	1
1,4-Difluorobenzene (Surr)	103		70 - 130				11/01/21 12:18	11/04/21 12:44	1

Mathad:	Total	RTFY -	Total R	TEY C	alculation

Analyte		lifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00411	0.00402	mg/Kg			11/09/21 10:58	1

Analyte	Result C	Qualifier	RL M	DL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 L		49.9	mg/Kg			11/08/21 15:54	1

Lab Sample ID: 890-1502-118

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-27 (15)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		11/03/21 13:15	11/04/21 18:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/21 13:15	11/04/21 18:17	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 13:15	11/04/21 18:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				11/03/21 13:15	11/04/21 18:17	1
o-Terphenyl	97		70 - 130				11/03/21 13:15	11/04/21 18:17	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SW-28 (15) Lab Sample ID: 890-1502-119 Date Collected: 10/26/21 00:00 Matrix: Solid

Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:18	11/04/21 13:04	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:18	11/04/21 13:04	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:18	11/04/21 13:04	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		11/01/21 12:18	11/04/21 13:04	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:18	11/04/21 13:04	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/01/21 12:18	11/04/21 13:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				11/01/21 12:18	11/04/21 13:04	1
1,4-Difluorobenzene (Surr)	107		70 - 130				11/01/21 12:18	11/04/21 13:04	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			11/09/21 10:58	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/08/21 15:54	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		11/03/21 13:15	11/04/21 18:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/21 13:15	11/04/21 18:39	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 13:15	11/04/21 18:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				11/03/21 13:15	11/04/21 18:39	1
o-Terphenyl	83		70 ₋ 130				11/03/21 13:15	11/04/21 18:39	1

Lab Sample ID: 890-1502-119

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-28 (15)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3280		25.0		mg/Kg			11/08/21 13:36	5

Lab Sample ID: 890-1502-120 Client Sample ID: SW-29 (15) Matrix: Solid

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/04/21 11:11	11/05/21 03:36	-
Toluene	< 0.00199	U	0.00199		mg/Kg		11/04/21 11:11	11/05/21 03:36	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/04/21 11:11	11/05/21 03:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/04/21 11:11	11/05/21 03:36	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		11/04/21 11:11	11/05/21 03:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/04/21 11:11	11/05/21 03:36	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	125		70 - 130				11/04/21 11:11	11/05/21 03:36	1
1,4-Difluorobenzene (Surr)	215	S1+	70 - 130				11/04/21 11:11	11/05/21 03:36	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/09/21 10:58	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/08/21 15:54	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		11/03/21 13:15	11/04/21 19:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/03/21 13:15	11/04/21 19:01	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/03/21 13:15	11/04/21 19:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				11/03/21 13:15	11/04/21 19:01	1
o-Terphenyl	99		70 - 130				11/03/21 13:15	11/04/21 19:01	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			5.00		mg/Kg			11/08/21 13:46	1

Lab Sample ID: 890-1502-121

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: SW-30 (RS) (6)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		11/01/21 11:07	11/01/21 23:40	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		11/01/21 11:07	11/01/21 23:40	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		11/01/21 11:07	11/01/21 23:40	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399		mg/Kg		11/01/21 11:07	11/01/21 23:40	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		11/01/21 11:07	11/01/21 23:40	1
Xylenes, Total	<0.00399	U F1	0.00399		mg/Kg		11/01/21 11:07	11/01/21 23:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130				11/01/21 11:07	11/01/21 23:40	1
1,4-Difluorobenzene (Surr)	96		70 - 130				11/01/21 11:07	11/01/21 23:40	1
Method: Total BTEX - Total BTE)	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/09/21 10:58	1
Method: 8015 NM - Diesel Range									
Method: 8015 NM - Diesel Range Analyte		O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
_		Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/08/21 15:54	
Analyte	Result <49.9	Qualifier U		MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result <49.9 ge Organics (Di Result	Qualifier U RO) (GC) Qualifier				<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <49.9 ge Organics (Di	Qualifier U RO) (GC) Qualifier	49.9		mg/Kg	=		11/08/21 15:54	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <49.9 ge Organics (Di Result	Qualifier U RO) (GC) Qualifier U	49.9		mg/Kg	=	Prepared	11/08/21 15:54 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 ge Organics (Di Result <49.9	Qualifier U RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg	=	Prepared 11/03/21 13:58	11/08/21 15:54 Analyzed 11/04/21 10:53	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/03/21 13:58 11/03/21 13:58	11/08/21 15:54 Analyzed 11/04/21 10:53 11/04/21 10:53	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/03/21 13:58 11/03/21 13:58	Analyzed 11/04/21 10:53 11/04/21 10:53 11/04/21 10:53	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/03/21 13:58 11/03/21 13:58 11/03/21 13:58 Prepared	Analyzed 11/04/21 10:53 11/04/21 10:53 11/04/21 10:53 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U RO) (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/03/21 13:58 11/03/21 13:58 11/03/21 13:58 Prepared 11/03/21 13:58	11/08/21 15:54 Analyzed 11/04/21 10:53 11/04/21 10:53 Analyzed 11/04/21 10:53	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.9 ge Organics (D) Result <49.9 <49.9 <49.9 %Recovery 90 108 comatography -	Qualifier U RO) (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/03/21 13:58 11/03/21 13:58 11/03/21 13:58 Prepared 11/03/21 13:58	11/08/21 15:54 Analyzed 11/04/21 10:53 11/04/21 10:53 Analyzed 11/04/21 10:53	Dil Fac Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac

Client Sample ID: SW-31 (RS) (4)

Date Collected: 10/28/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/01/21 11:07	11/02/21 00:00	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/01/21 11:07	11/02/21 00:00	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/01/21 11:07	11/02/21 00:00	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		11/01/21 11:07	11/02/21 00:00	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/01/21 11:07	11/02/21 00:00	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/01/21 11:07	11/02/21 00:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				11/01/21 11:07	11/02/21 00:00	1

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1502-122

Matrix: Solid

Lab Sample ID: 890-1502-122

Lab Sample ID: 890-1502-123

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-31 (RS) (4)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 4

Method: 8021B - Volatile Or	ganic Compounds	(GC) (Continued)
Michigal COLID Volume Of	gaine compounds	(GG) (GG) (GG)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	95	70 - 130	11/01/21 11:07	11/02/21 00:00	1

Mathod:	Total RTFY	- Total BTEX	Calculation
mictilou.	TOTAL DIEN	- IUIUI DI LA	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	I	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			_	11/09/21 10:58	1

Method: 8015 NM - Diesel Range Organics	IUKU	11661

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/K			11/08/21 15:54	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		11/03/21 13:58	11/04/21 11:55	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/03/21 13:58	11/04/21 11:55	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 13:58	11/04/21 11:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

- · ·	
o-Terphenyl 93	70 - 130

-					
o-Terphenyl	93	70 - 130	11/03/21 13:58	11/04/21 11:55	1
1-Chlorooctane	86	70 _ 130	11/03/21 13:58	11/04/21 11:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	109		4.99		mg/Kg			11/09/21 14:53	1

Client Sample ID: SW-32 (RS) (6)

Date Collected: 10/28/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 6

Method: 8021B - Volatile Organic Co	mnolinas ((=(.)

Michiga ouz ib - Volatile Orga	inc compounds	(30)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 11:07	11/02/21 00:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 11:07	11/02/21 00:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/01/21 11:07	11/02/21 00:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 11:07	11/02/21 00:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 11:07	11/02/21 00:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 11:07	11/02/21 00:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130				11/01/21 11:07	11/02/21 00:21	1
1,4-Difluorobenzene (Surr)	78		70 - 130				11/01/21 11:07	11/02/21 00:21	1

Mothod:	Total RT	Y - Total I	RTEY Ca	lculation

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		ma/Ka			11/09/21 10:58	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/08/21 15:54	1

Matrix: Solid

Lab Sample ID: 890-1502-123

Lab Sample ID: 890-1502-124

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: SW-32 (RS) (6)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/03/21 13:58	11/04/21 12:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/21 13:58	11/04/21 12:15	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/21 13:58	11/04/21 12:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				11/03/21 13:58	11/04/21 12:15	1
o-Terphenyl	83		70 - 130				11/03/21 13:58	11/04/21 12:15	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SW-33 (RS) (8)

Date Collected: 10/28/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:07	11/02/21 00:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:07	11/02/21 00:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:07	11/02/21 00:41	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/01/21 11:07	11/02/21 00:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:07	11/02/21 00:41	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/01/21 11:07	11/02/21 00:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130				11/01/21 11:07	11/02/21 00:41	1
1,4-Difluorobenzene (Surr)	98		70 - 130				11/01/21 11:07	11/02/21 00:41	1
- Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/09/21 10:58	1
· -									
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH	Result <50.0	Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/08/21 15:54	Dil Fac
	<50.0	Qualifier U		MDL		<u>D</u>	Prepared		
Total TPH Method: 8015B NM - Diesel Rang	<50.0	Qualifier U		MDL	mg/Kg	<u>D</u>	Prepared Prepared		
Total TPH Method: 8015B NM - Diesel Rang Analyte	<50.0	Qualifier U RO) (GC) Qualifier	50.0		mg/Kg			11/08/21 15:54	1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	<50.0 ge Organics (D) Result <50.0	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0		mg/Kg Unit mg/Kg		Prepared 11/03/21 13:58	11/08/21 15:54 Analyzed 11/04/21 12:36	1 Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0 ge Organics (D Result	Qualifier U RO) (GC) Qualifier U	50.0		mg/Kg		Prepared	11/08/21 15:54 Analyzed	1 Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 ge Organics (D Result <50.0 <50.0	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/03/21 13:58 11/03/21 13:58	11/08/21 15:54 Analyzed 11/04/21 12:36 11/04/21 12:36	1 Dil Fac 1
Total TPH	<50.0 ge Organics (D) Result <50.0	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0		mg/Kg Unit mg/Kg		Prepared 11/03/21 13:58	11/08/21 15:54 Analyzed 11/04/21 12:36	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0 ge Organics (D Result <50.0 <50.0 <50.0 %Recovery	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/03/21 13:58 11/03/21 13:58 11/03/21 13:58 Prepared	Analyzed 11/04/21 12:36 11/04/21 12:36 11/04/21 12:36 Analyzed	1 Dil Fac 1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 ge Organics (D Result <50.0 <50.0 <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/03/21 13:58 11/03/21 13:58 11/03/21 13:58	Analyzed 11/04/21 12:36 11/04/21 12:36 11/04/21 12:36	1 Dil Fac 1

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Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-33 (RS) (8) Lab Sample ID: 890-1502-124

Date Collected: 10/28/21 00:00

Matrix: Solid Date Received: 10/29/21 12:45

Sample Depth: 8

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	831	F1	5.04		mg/Kg			11/09/21 15:08	1

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

-				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	rosont currogate receivery (recorptance Limite)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1502-1	BH-1 (6)	118	73	
890-1502-1 MS	BH-1 (6)	111	105	
890-1502-1 MSD	BH-1 (6)	109	103	
890-1502-2	BH-2 (6)	120	98	
890-1502-3	BH-3 (6)	122	70	
890-1502-4	BH-4 (6)	124	67 S1-	
890-1502-5	BH-5 (6)	140 S1+	97	
890-1502-6	BH-6 (6)	136 S1+	104	
	* *			
890-1502-7	BH-7 (6)	123	97	
890-1502-8	BH-8 (6)	146 S1+	69 S1-	
890-1502-9	BH-9 (6)	130	93	
890-1502-10	BH-10 (6)	136 S1+	105	
890-1502-11	BH-11 (6)	112	76	
890-1502-12	BH-12 (6)	137 S1+	98	
890-1502-13	BH-13 (6)	120	96	
890-1502-14	BH-14 (6)	130	95	
890-1502-15	BH-15 (6)	137 S1+	98	
890-1502-16	BH-16 (6)	110	82	
890-1502-17	BH-17 (6)	123	98	
890-1502-18	BH-18 (6)	127	98	
890-1502-19	BH-19 (6)	117	81	
890-1502-20	BH-20 (6)	113	94	
890-1502-21	BH-21 (6)	99	72	
890-1502-21 MS	BH-21 (6)	133 S1+	111	
890-1502-21 MSD	BH-21 (6)	113	104	
890-1502-22	BH-22 (6)	130	98	
890-1502-23	BH-23 (6)	116	100	
890-1502-24	BH-24 (6)	126	96	
890-1502-25	BH-25 (15)	122	97	
890-1502-26	BH-26 (15)	123	107	
890-1502-27	BH-27 (15)	112	85	
890-1502-28	BH-28 (15)	121	104	
890-1502-29	BH-29 (15)	123	91	
890-1502-30	BH-30 (15)	71	70	
890-1502-31	BH-31 (15)	114	111	
890-1502-32	BH-32 (15)	86	93	
890-1502-33	BH-33 (15)	132 S1+	108	
890-1502-34	BH-34 (15)	124	100	
890-1502-35	BH-35 (15)	127	110	
890-1502-36	BH-36 (15)	128	109	
890-1502-37	BH-37 (15)	117	101	
890-1502-38	BH-38 (15)	129	118	
890-1502-39	BH-39 (15)	117	100	
890-1502-40	BH-40 (15)	115	100	
890-1502-41	BH-41 (15)	132 S1+	110	
890-1502-41 MS	BH-41 (15)	66 S1-	179 S1+	
890-1502-41 MSD	BH-41 (15)	70	216 S1+	
890-1502-42	BH-42 (15)	86	198 S1+	
890-1502-43	BH-43 (15)	88	215 S1+	

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

Matrix: Solid				Prep Type: Total/NA
				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1502-44	BH-44 (15)	99	211 S1+	. — — — — — — —
890-1502-45	BH-45 (15)	88	203 S1+	
890-1502-46	BH-46 (15)	102	226 S1+	
890-1502-47	BH-47 (15)	86	211 S1+	
890-1502-48	BH-48 (15)	94	220 S1+	
890-1502-49	BH-49 (15)	91	17 S1-	
890-1502-50	BH-50 (15)	11591	65 S1-	
		S1+		
890-1502-51	BH-51 (15)	112	199 S1+	
890-1502-52	BH-52 (15)	105	233 S1+	
890-1502-53	BH-53 (15)	114	99	
890-1502-53 MS	BH-53 (15)	124	100	
890-1502-53 MSD	BH-53 (15)	109	96	
890-1502-54	BH-54 (15)	90	202 S1+	
890-1502-55	BH-55 (15)	88	191 S1+	
890-1502-56	BH-56 (15)	116	115	
890-1502-57	BH-57 (15)	96	221 S1+	
890-1502-58	BH-58 (15)	112	243 S1+	
890-1502-59	BH-59 (15)	111	243 S1+	
890-1502-60	BH-60 (15)	13 S1-	230 S1+	
890-1502-61	BH-61 (15)	115	99	
890-1502-61 MS	BH-61 (15)	131 S1+	110	
890-1502-61 MSD	BH-61 (15)	134 S1+	100	
890-1502-62	BH-62 (15)	118	103	
890-1502-63	BH-63 (15)	124	102	
890-1502-64	BH-64 (15)	120	99	
890-1502-65	BH-65 (15)	134 S1+	101	
890-1502-66	BH-66 (15)	95	72	
890-1502-67	BH-67 (15)	115	100	
890-1502-68	BH-68 (15)	125	109	
890-1502-69	BH-69 (15)	129	103	
890-1502-70	BH-70 (15)	130	102	
890-1502-71	BH-71 (15)	116	97	
890-1502-72	BH-72 (15)	122	103	
890-1502-73	BH-73 (15)	130	102	
890-1502-74	BH-74 (15)	121	98	
890-1502-75	BH-75 (15)	88	79	
890-1502-76	BH-76 (15)	119	104	
890-1502-77	BH-77 (15)	82	71	
890-1502-78	BH-78 (15)	118	99	
890-1502-79	BH-79 (15)	129	104	
890-1502-80	BH-80 (15)	116	106	
890-1502-81	BH-81 (15)	80	69 S1-	
890-1502-81 MS	BH-81 (15)	118	103	
890-1502-81 MSD	BH-81 (15)	96	86	
890-1502-82	BH-82 (15)	105	83	
890-1502-83	BH-83 (15)	107	90	
890-1502-84	BH-84 (15)	126	101	
890-1502-85 890-1502-86	BH-85 (15) BH-86 (15)	114 115	110 100	

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	refeelt ourregate receivery (Acceptance Limits)
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
1502-87	BH-87 (15)	110	98	
502-88	BH-88 (15)	128	101	
502-89	BH-89 (15)	129	112	
502-90	BH90 (RS) (6)	128	126	
502-91	BH-91 (RS) (6)	114	111	
502-92	SW-1 (0-6)	93	122	
502-93	SW-2 (0-6)	108	74	
1502-93	SW-3 (0-6)	128	97	
1502-94		133 S1+	105	
	SW-4 (0-6)			
502-96	SW-5 (0-6)	129	110	
502-97	SW-6 (0-6)	112	98	
1502-98	SW-7 (0-6)	114	96	
1502-99	SW-8 (0-6)	119	104	
1502-100	SW-9 (0-6)	126	101	
1502-101	SW-10 (0-6)	111	92	
502-101 MS	SW-10 (0-6)	123	99	
502-101 MSD	SW-10 (0-6)	123	101	
502-102	SW-11 (0-6)	113	88	
502-103	SW-12 (10)	140 S1+	113	
02-104	SW-13 (15)	123	110	
502-105	SW-14 (15)	135 S1+	108	
502-106	SW-15 (15)	85	57 S1-	
502-107	SW-16 (15)	129	108	
502-108	SW-17 (15)	122	105	
502-109	SW-18 (15)	118	101	
502-110	SW-19 (15)	88	83	
502-111	SW-20 (15)	116	101	
502-112	SW-21 (15)	126	111	
502-113	SW-22 (15)	116	97	
1502-114	SW-23 (15)	123	104	
1502-115	SW-24 (15)	110	114	
1502-116	SW-25 (15)	134 S1+	108	
1502-117	SW-26 (15)	118	96	
1502-118	SW-27 (15)	121	103	
1502-119	SW-28 (15)	128	107	
1502-119	SW-29 (15)	125	215 S1+	
1502-121	SW-30 (RS) (6)	136 S1+	96	
-1502-121 -1502-121 MS	SW-30 (RS) (6)	122	97	
-1502-121 MSD		114	103	
	SW-30 (RS) (6)			
-1502-122	SW-31 (RS) (4)	109	95	
1502-123	SW-32 (RS) (6)	151 S1+	78	
1502-124	SW-33 (RS) (8)	142 S1+	98	
-1520-A-1-B MS	Matrix Spike	101	103	
1520-A-1-C MSD	Matrix Spike Duplicate	61 S1-	204 S1+	
880-11075/1-A	Lab Control Sample	113	101	
880-11076/1-A	Lab Control Sample	106	87	
880-11109/1-A	Lab Control Sample	113	103	
880-11111/1-A	Lab Control Sample	87	223 S1+	
880-11112/1-A	Lab Control Sample	112	103	

Client: Tetra Tech, Inc.Job ID: 890-1502-1Project/Site: Kaiser SWDSDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Sample ID	Client Sample ID	(70-130)	(70-130)	
S 880-11114/1-A	Lab Control Sample	114	106	
S 880-11388/1-A	Lab Control Sample	129	85	
8 880-11445/1-A	Lab Control Sample	103	230 S1+	
880-11449/3	Lab Control Sample	94	190 S1+	
D 880-11075/2-A	Lab Control Sample Dup	107	106	
0 880-11076/2-A	Lab Control Sample Dup	108	97	
D 880-11109/2-A	Lab Control Sample Dup	128	103	
D 880-11112/2-A	Lab Control Sample Dup	121	106	
D 880-11113/2-A	Lab Control Sample Dup	116	107	
D 880-11114/2-A	Lab Control Sample Dup	112	107	
D 880-11388/2-A	Lab Control Sample Dup	105	102	
0 880-11445/2-A	Lab Control Sample Dup	82	234 S1+	
D 880-11449/4	Lab Control Sample Dup	95	198 S1+	
380-11021/5-A	Method Blank	106	101	
80-11075/5-A	Method Blank	120	97	
880-11076/5-A	Method Blank	115	93	
880-11109/5-A	Method Blank	120	106	
880-11111/5-A	Method Blank	58 S1-	189 S1+	
380-11112/5-A	Method Blank	117	106	
80-11113/5-A	Method Blank	117	107	
880-11114/5-A	Method Blank	116	105	
880-11207/5-A	Method Blank	107	71	
880-11258/5-A	Method Blank	54 S1-	182 S1+	
880-11388/5-A	Method Blank	96	99	
880-11445/5-A	Method Blank	65 S1-	196 S1+	
880-11449/8	Method Blank	63 S1-	187 S1+	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

-				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID			
LCSD 880-11111/2-A	Lab Control Sample Dup			
Surrogate Legend				
BFB = 4-Bromofluorobe	enzene (Surr)			
DFBZ = 1.4-Difluorober	nzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

Γ					Percent Surrogate Recovery (Acceptance Limits)
			1CO1	OTPH1	
ı	_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
3	390-1502-1	BH-1 (6)	108	118	
8	390-1502-1 MS	BH-1 (6)	122	114	
8	390-1502-1 MSD	BH-1 (6)	114	109	

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Perceyony (Accontance Limite)
		1001	ОТРН1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-1502-2	BH-2 (6)	119	131 S1+	
390-1502-3	BH-3 (6)	105	117	
390-1502-4	BH-4 (6)	112	125	
390-1502-5	BH-5 (6)	104	117	
90-1502-6	BH-6 (6)	111	123	
90-1502-7	BH-7 (6)	103	115	
90-1502-8	BH-8 (6)	104	117	
90-1502-9	BH-9 (6)	111	122	
890-1502-9 890-1502-10	BH-10 (6)	106	118	
390-1302-10 390-1502-11		109		
	BH-11 (6)		123	
90-1502-12	BH-12 (6)	104	112	
90-1502-13	BH-13 (6)	103	116	
90-1502-14	BH-14 (6)	102	113	
90-1502-15	BH-15 (6)	111	123	
90-1502-16	BH-16 (6)	100	113	
90-1502-17	BH-17 (6)	102	113	
90-1502-18	BH-18 (6)	100	107	
90-1502-19	BH-19 (6)	105	115	
90-1502-20	BH-20 (6)	9 S1-	10 S1-	
90-1502-21	BH-21 (6)	103	123	
90-1502-21 MS	BH-21 (6)	89	94	
90-1502-21 MSD	BH-21 (6)	94	101	
90-1502-22	BH-22 (6)	103	117	
90-1502-23	BH-23 (6)	92	106	
90-1502-24	BH-24 (6)	109	123	
90-1502-25	BH-25 (15)	107	122	
90-1502-26	BH-26 (15)	102	119	
90-1502-27	BH-27 (15)	105	120	
90-1502-28	BH-28 (15)	104	120	
90-1502-29	BH-29 (15)	109	128	
90-1502-30	BH-30 (15)	115	136 S1+	
90-1502-31	BH-31 (15)	105	123	
90-1502-32	BH-32 (15)	123	150 S1+	
90-1502-33	BH-33 (15)	112	133 S1+	
90-1502-34	BH-34 (15)	124	152 S1+	
90-1502-35	BH-35 (15)	107	132 S1+	
90-1502-36	BH-36 (15)	95	110	
90-1502-37	BH-37 (15)	95	112	
90-1502-38	BH-38 (15)	95	117	
90-1502-39	BH-39 (15)	94	117	
90-1502-40	BH-40 (15)	91	110	
90-1502-41	BH-41 (15)	96	95	
90-1502-41 MS	BH-41 (15)	95	87	
90-1502-41 MSD	BH-41 (15)	96	87	
90-1502-41 M3D 90-1502-42	BH-42 (15)	101	105	
90-1502-42				
	BH-43 (15)	94	93 116	
90-1502-44	BH-44 (15)	110	116 112	
90-1502-45	BH-45 (15)	107	112	
90-1502-46	BH-46 (15)	106	107	

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	ОТРН1	Sarrogato resorrory (resorptance Emilia)
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-1502-48	BH-48 (15)	111	111	
90-1502-49	BH-49 (15)	101	106	
90-1502-50	BH-50 (15)	114	119	
90-1502-51	BH-51 (15)	101	106	
90-1502-52	BH-52 (15)	101	103	
90-1502-53	BH-53 (15)	96	98	
90-1502-54	BH-54 (15)	99	100	
0-1502-55	BH-55 (15)	99	99	
0-1502-56	BH-56 (15)	106	113	
90-1502-57	BH-57 (15)	99	102	
90-1502-58	BH-58 (15)	93	93	
10-1502-58 10-1502-59	BH-59 (15)	110	110	
		88	87	
00-1502-60	BH-60 (15)			
90-1502-61	BH-61 (15)	50 S1-	34 S1-	
90-1502-61 MS	BH-61 (15)	41 S1-	31 S1-	
0-1502-61 MSD	BH-61 (15)	75	61 S1-	
00-1502-62	BH-62 (15)	93	90	
90-1502-63	BH-63 (15)	95	95	
0-1502-64	BH-64 (15)	97	103	
0-1502-65	BH-65 (15)	99	107	
00-1502-66	BH-66 (15)	102	112	
90-1502-67	BH-67 (15)	102	110	
00-1502-68	BH-68 (15)	97	98	
00-1502-69	BH-69 (15)	109	114	
90-1502-70	BH-70 (15)	97	103	
90-1502-71	BH-71 (15)	99	107	
90-1502-72	BH-72 (15)	115	128	
90-1502-73	BH-73 (15)	90	91	
90-1502-74	BH-74 (15)	98	102	
90-1502-75	BH-75 (15)	100	109	
90-1502-76	BH-76 (15)	93	96	
0-1502-77	BH-77 (15)	99	105	
90-1502-78	BH-78 (15)	108	112	
90-1502-79	BH-79 (15)	103	103	
0-1502-80	BH-80 (15)	109	122	
90-1502-81	BH-81 (15)	91	101	
0-1502-81 MS	BH-81 (15)	95	99	
90-1502-81 MSD	BH-81 (15)	95	97	
90-1502-82	BH-82 (15)	89	102	
0-1502-83	BH-83 (15)	91	105	
90-1502-84	BH-84 (15)	94	105	
0-1502-85	BH-85 (15)	93	106	
0-1502-86	BH-86 (15)	93	110	
00-1502-80 00-1502-87	BH-87 (15)	93	110	
90-1502-88	BH-88 (15)	98	108	
90-1502-88 90-1502-89	вн-89 (15) ВН-89 (15)	92	108	
90-1502-90	BH90 (RS) (6)	94	112	
90-1502-91	BH-91 (RS) (6)	92	107	
90-1502-92	SW-1 (0-6)	90	106	

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	ОТРН1	r ercent ourrogate necovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1502-94	SW-3 (0-6)	89	106	
890-1502-95	SW-4 (0-6)	90	107	
890-1502-96	SW-5 (0-6)	102	122	
890-1502-97	SW-6 (0-6)	89	98	
890-1502-98	SW-7 (0-6)	91	109	
890-1502-99	SW-8 (0-6)	91	104	
890-1502-100	SW-9 (0-6)	94	112	
890-1502-101	SW-10 (0-6)	100	100	
890-1502-101 MS	SW-10 (0-6)	101	93	
890-1502-101 MSD	SW-10 (0-6)	109	97	
890-1502-102	SW-11 (0-6)	106	104	
890-1502-103	SW-12 (10)	101	98	
890-1502-104	SW-13 (15)	86	83	
890-1502-105	SW-14 (15)	107	106	
890-1502-106	SW-15 (15)	102	100	
890-1502-107	SW-16 (15)	106	105	
890-1502-108	SW-17 (15)	97	97	
890-1502-109	SW-18 (15)	103	103	
890-1502-110		103	103	
890-1502-111	SW-19 (15) SW-20 (15)	103	105	
890-1502-112	SW-21 (15)	107	107	
890-1502-112	SW-22 (15)	107	107	
890-1502-114		104	101	
890-1502-114	SW-23 (15)	107	106	
890-1502-116	SW-24 (15)			
890-1502-117	SW-25 (15)	104 104	105 103	
890-1502-117	SW-26 (15) SW-27 (15)	99	97	
890-1502-118 890-1502-119		90	83	
890-1502-119 890-1502-120	SW-28 (15) SW-29 (15)	103	99	
890-1502-121 890-1502-121 MS	SW-30 (RS) (6)	90	108	
890-1502-121 MSD	SW-30 (RS) (6)	100	92	
	SW-30 (RS) (6)	92	84	
890-1502-122	SW-31 (RS) (4)	86	93	
890-1502-123	SW-32 (RS) (6)	84	83	
890-1502-124	SW-33 (RS) (8)	80	80	
LCS 880-11223/2-A	Lab Control Sample	116	109	
LCS 880-11255/2-A	Lab Control Sample	98	106	
LCS 880-11273/2-A	Lab Control Sample	84	80	
LCS 880-11356/2-A	Lab Control Sample	103	100	
LCS 880-11364/2-A	Lab Control Sample	81	89	
LCS 880-11375/2-A	Lab Control Sample	102	99	
LCS 880-11376/2-A	Lab Control Sample	108	88	
LCSD 880-11223/3-A	Lab Control Sample Dup	113	106	
LCSD 880-11255/3-A	Lab Control Sample Dup	100	108	
LCSD 880-11273/3-A	Lab Control Sample Dup	87	85	
LCSD 880-11356/3-A	Lab Control Sample Dup	87	84	
LCSD 880-11364/3-A	Lab Control Sample Dup	89	97	
LCSD 880-11375/3-A	Lab Control Sample Dup	92	85	
LCSD 880-11376/3-A	Lab Control Sample Dup	103	95	
MB 880-11223/1-A	Method Blank	108	113	

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Reco
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
MB 880-11255/1-A	Method Blank	98	115	
MB 880-11273/1-A	Method Blank	100	103	
MB 880-11356/1-A	Method Blank	110	109	
MB 880-11364/1-A	Method Blank	99	115	
MB 880-11375/1-A	Method Blank	112	123	
MB 880-11376/1-A	Method Blank	89	94	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

1

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Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-11021/5-A

Analysis Batch: 11022

Matrix: Solid

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 11021

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 08:33	11/01/21 12:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 08:33	11/01/21 12:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 08:33	11/01/21 12:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 08:33	11/01/21 12:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 08:33	11/01/21 12:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 08:33	11/01/21 12:08	1

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	_	11/01/21 08:33	11/01/21 12:08	1
1,4-Difluorobenzene (Surr)	101		70 - 130		11/01/21 08:33	11/01/21 12:08	1

Lab Sample ID: MB 880-11075/5-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Prep Batch: 11075 **Analysis Batch: 11206**

			IVID								
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 00:26	1	
	Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 00:26	1	
	Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 00:26	1	
	m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 11:05	11/03/21 00:26	1	
	o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 00:26	1	
	Xylenes, Total	< 0.00400	U	0.00400		mg/Kg		11/01/21 11:05	11/03/21 00:26	1	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	11/01/21 11:05	11/03/21 00:26	1
1,4-Difluorobenzene (Surr)	97		70 - 130	11/01/21 11:05	11/03/21 00:26	1

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 880-11075/1-A **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 11206

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.07732 mg/Kg 77 70 - 130 Toluene 0.100 0.07602 mg/Kg 76 70 - 130 Ethylbenzene 0.100 0.07511 mg/Kg 75 70 - 130 77 m-Xylene & p-Xylene 0.200 0.1537 mg/Kg 70 - 130

0.100 0.09253 o-Xylene mg/Kg LCS LCS

Qualifier Limits Surrogate %Recovery 4-Bromofluorobenzene (Surr) 113 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 101

Lab Sample ID: LCSD 880-11075/2-A

Matrix: Solid

Prep Type: Total/NA **Analysis Batch: 11206** Prep Batch: 11075 LCSD LCSD RPD Spike %Rec. Result Qualifier Analyte Added Unit %Rec Limits RPD Limit Benzene 0.100 0.09604 mg/Kg 96 70 - 130 22

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1

Prep Batch: 11075

70 - 130

Client Sample ID: Lab Control Sample Dup

93

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-11075/2-A **Matrix: Solid**

Analysis Batch: 11206

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 11075

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.08281		mg/Kg		83	70 - 130	9	35
Ethylbenzene	0.100	0.08382		mg/Kg		84	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.1739		mg/Kg		87	70 - 130	12	35
o-Xylene	0.100	0.09914		mg/Kg		99	70 - 130	7	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 890-1502-1 MS

Matrix: Solid

Analysis Batch: 11206

Client Sample ID: BH-1 (6)

Prep Type: Total/NA Prep Batch: 11075

Spike MS MS %Rec. Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Benzene <0.00199 U F1 0.101 0.06514 F1 65 70 - 130 mg/Kg Toluene <0.00199 UF1 0.101 0.05844 F1 58 70 - 130 mg/Kg Ethylbenzene <0.00199 UF1 0.101 0.06080 F1 mg/Kg 60 70 - 130 0.201 m-Xylene & p-Xylene <0.00398 UF1 0.06489 F1 32 70 - 130 mg/Kg o-Xylene <0.00199 U 0.101 0.07557 mg/Kg 74 70 - 130

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	111	70 - 130
1,4-Difluorobenzene (Surr)	105	70 - 130

Lab Sample ID: 890-1502-1 MSD

Matrix: Solid

Analysis Batch: 11206

Client Sample ID: BH-1 (6)

Prep Type: Total/NA

Prep Batch: 11075

7 mining 0:10 = 0:10:11											
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U F1	0.0996	0.07109		mg/Kg		71	70 - 130	9	35
Toluene	<0.00199	U F1	0.0996	0.06473	F1	mg/Kg		65	70 - 130	10	35
Ethylbenzene	<0.00199	U F1	0.0996	0.06748	F1	mg/Kg		68	70 - 130	10	35
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.07381	F1	mg/Kg		37	70 - 130	13	35
o-Xylene	<0.00199	U	0.0996	0.08065		mg/Kg		80	70 - 130	7	35

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	109	70 - 130
1,4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: MB 880-11076/5-A

Matrix: Solid

Analysis Batch: 11022

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11076

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:07	11/01/21 23:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:07	11/01/21 23:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:07	11/01/21 23:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 11:07	11/01/21 23:18	1

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QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1502-1 SDG: 212C-MD-02230 Project/Site: Kaiser SWD

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-11076/5-A

Matrix: Solid

Analysis Batch: 11022

	Client	Sample	ID:	Method	В	lank
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Prep Type: Total/NA

Prep Batch: 11076

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg	 	11/01/21 11:07	11/01/21 23:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 11:07	11/01/21 23:18	1

MR MR

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	11/01/21 11:07	11/01/21 23:18	1
1,4-Difluorobenzene (Surr)	93		70 - 130	11/01/21 11:07	11/01/21 23:18	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-11076/1-A **Matrix: Solid** Prep Type: Total/NA

Prep Batch: 11076 **Analysis Batch: 11022**

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07785		mg/Kg		78	70 - 130	
Toluene	0.100	0.07783		mg/Kg		78	70 - 130	
Ethylbenzene	0.100	0.08142		mg/Kg		81	70 - 130	
m-Xylene & p-Xylene	0.200	0.1672		mg/Kg		84	70 - 130	
o-Xylene	0.100	0.08586		mg/Kg		86	70 - 130	

LCS LCS

Surro	gate	%Recovery	Qualifier	Limits
4-Broi	mofluorobenzene (Surr)	106		70 - 130
1.4-Di	fluorobenzene (Surr)	87		70 - 130

Lab Sample ID: LCSD 880-11076/2-A

Matrix: Solid

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analysis Batch: 11022 Prep Batch: 11076

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08048		mg/Kg		80	70 - 130	3	35
Toluene	0.100	0.07699		mg/Kg		77	70 - 130	1	35
Ethylbenzene	0.100	0.07972		mg/Kg		80	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1619		mg/Kg		81	70 - 130	3	35
o-Xylene	0.100	0.08493		mg/Kg		85	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	108	70 - 130
1.4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: 890-1502-121 MS Client Sample ID: SW-30 (RS) (6)

Matrix: Solid Prep Type: Total/NA Analysis Batch: 11022 Prep Batch: 11076

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F1	0.0990	0.04100	F1	mg/Kg		41	70 - 130	
Toluene	<0.00200	U F1	0.0990	0.04297	F1	mg/Kg		43	70 - 130	
Ethylbenzene	<0.00200	U F1	0.0990	0.04022	F1	mg/Kg		41	70 - 130	
m-Xylene & p-Xylene	<0.00399	U F1	0.198	0.09185	F1	mg/Kg		46	70 - 130	
o-Xylene	<0.00200	U F1	0.0990	0.04676	F1	mg/Kg		47	70 - 130	

Limits

70 - 130

70 - 130

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

MS MS

%Recovery Qualifier

122

97

Job ID: 890-1502-1 SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued) Lab Sample ID: 890-1502-121 MS

Matrix: Solid

Surrogate

Analysis Batch: 11022

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Client Sample ID: SW-30 (RS) (6)

Prep Type: Total/NA

Prep Batch: 11076

Lab Sample ID: 890-1502-121 MSD

Matrix: Solid

Analysis Batch: 11022

Client Sample ID: SW-30 (RS) (6)

Prep Type: Total/NA

Prep Batch: 11076

_	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U F1	0.0996	0.05695	F1	mg/Kg		57	70 - 130	33	35
Toluene	<0.00200	U F1	0.0996	0.05604	F1	mg/Kg		56	70 - 130	26	35
Ethylbenzene	<0.00200	U F1	0.0996	0.05757	F1	mg/Kg		58	70 - 130	35	35
m-Xylene & p-Xylene	<0.00399	U F1	0.199	0.1165	F1	mg/Kg		59	70 - 130	24	35
o-Xylene	<0.00200	U F1	0.0996	0.06067	F1	mg/Kg		61	70 - 130	26	35

MSD MSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 114 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 103

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11109

Matrix: Solid

Lab Sample ID: MB 880-11109/5-A

Analysis Batch: 11221

l		MB	MB							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 17:47	1
	Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 17:47	1
	Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 17:47	1
	m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:05	11/02/21 17:47	1
	o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:05	11/02/21 17:47	1
	Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 12:05	11/02/21 17:47	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepare	ed	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	11/01/21 1	12:05	11/02/21 17:47	1
1,4-Difluorobenzene (Surr)	106		70 - 130	11/01/21 1	12:05	11/02/21 17:47	1

Lab Sample ID: LCS 880-11109/1-A

Released to Imaging: 9/1/2023 2:55:43 PM

Matrix: Solid

Analysis Batch: 11221

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11109

	Spike	LUS	LUS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09326		mg/Kg		93	70 - 130	
Toluene	0.100	0.09333		mg/Kg		93	70 - 130	
Ethylbenzene	0.100	0.1039		mg/Kg		104	70 - 130	
m-Xylene & p-Xylene	0.200	0.2053		mg/Kg		103	70 - 130	
o-Xylene	0.100	0.09913		mg/Kg		99	70 - 130	

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 113 70 - 130

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-11109/1-A

Matrix: Solid

Analysis Batch: 11221

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11109

LCS LCS

%Recovery Qualifier Surrogate Limits 1,4-Difluorobenzene (Surr) 103 70 - 130

Lab Sample ID: LCSD 880-11109/2-A

Matrix: Solid

Analysis Batch: 11221

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11109

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1108		mg/Kg		111	70 - 130	17	35
Toluene	0.100	0.1179		mg/Kg		118	70 - 130	23	35
Ethylbenzene	0.100	0.1173		mg/Kg		117	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.2363		mg/Kg		118	70 - 130	14	35
o-Xylene	0.100	0.1143		mg/Kg		114	70 - 130	14	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	128	70 - 130
1,4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: 890-1502-21 MS Client Sample ID: BH-21 (6)

Matrix: Solid

Analysis Batch: 11221

Prep Type: Total/NA Prep Batch: 11109

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U F1 F2	0.100	0.05197	F1	mg/Kg		51	70 - 130	
Toluene	<0.00202	U	0.100	0.07531		mg/Kg		74	70 - 130	
Ethylbenzene	<0.00202	U F1	0.100	0.06742	F1	mg/Kg		67	70 - 130	
m-Xylene & p-Xylene	<0.00403	U F1	0.200	0.1125	F1	mg/Kg		56	70 - 130	
o-Xylene	<0.00202	U F1	0.100	0.06405	F1	mg/Kg		64	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130
1.4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: 890-1502-21 MSD Client Sample ID: BH-21 (6)

Matrix: Solid

Analysis Batch: 11221

Prep Type: Total/NA

Prep Batch: 11109

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	<0.00202	U F1 F2	0.101	0.08364	F2	mg/Kg		82	70 - 130	47	35	
Toluene	<0.00202	U	0.101	0.07898		mg/Kg		78	70 - 130	5	35	
Ethylbenzene	<0.00202	U F1	0.101	0.06977	F1	mg/Kg		69	70 - 130	3	35	
m-Xylene & p-Xylene	<0.00403	U F1	0.202	0.1359	F1	mg/Kg		67	70 - 130	19	35	
o-Xylene	<0.00202	U F1	0.101	0.06888	F1	mg/Kg		68	70 - 130	7	35	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

QC Sample Results

Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-11111/5-A

Matrix: Solid

Analysis Batch: 11259

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11111

ı		MB	MR						
	Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fa
	Benzene	<0.00200	U	0.00200	mg/Kg	9	11/01/21 12:11	11/04/21 01:52	
	Toluene	<0.00200	U	0.00200	mg/Kg	9	11/01/21 12:11	11/04/21 01:52	
	Ethylbenzene	<0.00200	U	0.00200	mg/Kg	9	11/01/21 12:11	11/04/21 01:52	
I	m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg	3	11/01/21 12:11	11/04/21 01:52	
	o-Xylene	<0.00200	U	0.00200	mg/Kg	3	11/01/21 12:11	11/04/21 01:52	
	Xylenes, Total	<0.00400	U	0.00400	mg/Kg	3	11/01/21 12:11	11/04/21 01:52	
ı									

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	58	S1-	70 - 130	11/01/21 12:11	11/04/21 01:52	1
1,4-Difluorobenzene (Surr)	189	S1+	70 - 130	11/01/21 12:11	11/04/21 01:52	1

Lab Sample ID: LCS 880-11111/1-A

Matrix: Solid

Analysis Batch: 11259

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11111

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1068		mg/Kg		107	70 - 130	
Toluene	0.100	0.1000		mg/Kg		100	70 - 130	
Ethylbenzene	0.100	0.08895		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene	0.200	0.1848		mg/Kg		92	70 - 130	
o-Xylene	0.100	0.1111		mg/Kg		111	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	223	S1+	70 - 130

Lab Sample ID: LCSD 880-11111/2-A

Matrix: Solid

Analysis Batch: 11259

Prep Type: Total/NA Prep Batch: 11111

		Spike	LCSD	LCSD				%Rec.		RPD
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene		0.100	0.1167		mg/Kg					
Toluene		0.100	0.1109		mg/Kg					
Ethylbenzene		0.100	0.1068		mg/Kg					
m-Xylene & p-Xy	lene	0.200	0.2116		mg/Kg					
o-Xylene		0.100	0.1243		mg/Kg					

LCSD LCSD

%Recovery Qualifier Limits Surrogate

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Lab Sample ID: 890-1502-41 MS Client Sample ID: BH-41 (15)

Matrix: Solid

Analysis Batch: 11259

Prep Batch: 11111 Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits <0.00200 U F2 F1 0.101 0.01309 F1 12 Benzene mg/Kg 70 - 130 Toluene <0.00200 U F2 F1 0.101 0.005176 F1 mg/Kg 4 70 - 130

Eurofins Xenco, Carlsbad

Prep Type: Total/NA

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1502-41 MS

Matrix: Solid

Analysis Batch: 11259

Client Sample ID: BH-41 (15)

Prep Type: Total/NA Prep Batch: 11111

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00200 U F2 F1 0.101 0.006767 F1 6 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00399 UF1 0.202 <0.00403 UF1 mg/Kg 0 70 - 130 <0.00200 U F2 F1 0.101 0.01517 F1 o-Xylene mg/Kg 14 70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	66	S1-	70 - 130		
1,4-Difluorobenzene (Surr)	179	S1+	70 - 130		

Client Sample ID: BH-41 (15)

Prep Type: Total/NA

Prep Batch: 11111

Lab Sample ID: 890-1502-41 MSD **Matrix: Solid**

Analysis Batch: 11259

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U F2 F1	0.0994	0.02353	F2 F1	mg/Kg		23	70 - 130	57	35
Toluene	<0.00200	U F2 F1	0.0994	0.01239	F2 F1	mg/Kg		12	70 - 130	82	35
Ethylbenzene	<0.00200	U F2 F1	0.0994	0.01841	F2 F1	mg/Kg		18	70 - 130	92	35
m-Xylene & p-Xylene	<0.00399	U F1	0.199	0.006042	F1	mg/Kg		3	70 - 130	NC	35
o-Xylene	<0.00200	U F2 F1	0.0994	0.03039	F2 F1	mg/Kg		30	70 - 130	67	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	70		70 - 130
1,4-Difluorobenzene (Surr)	216	S1+	70 - 130

Lab Sample ID: MB 880-11112/5-A

Matrix: Solid

Analysis Batch: 11221

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11112

MD MD

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 05:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 05:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 05:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:13	11/03/21 05:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	11/03/21 05:19	1
Xylenes, Total	< 0.00400	U	0.00400		mg/Kg		11/01/21 12:13	11/03/21 05:19	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117	70 - 130	11/01/21 12:13	11/03/21 05:19	1
1.4-Difluorobenzene (Surr)	106	70 - 130	11/01/21 12:13	11/03/21 05:19	1

Lab Sample ID: LCS 880-11112/1-A

Matrix: Solid

Analysis Batch: 11221

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11112

	Spike	LCS	LCS			%Rec.	
Analyte	Added	Result	Qualifier	Unit	D %Rec	Limits	
Benzene	0.100	0.08714		mg/Kg	87	70 - 130	
Toluene	0.100	0.09081		mg/Kg	91	70 - 130	
Ethylbenzene	0.100	0.09455		mg/Kg	95	70 - 130	
m-Xylene & p-Xylene	0.200	0.1857		mg/Kg	93	70 - 130	

1,4-Difluorobenzene (Surr)

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-11112/1-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 11221** Prep Batch: 11112 LCS LCS Spike %Rec.

Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
o-Xylene	0.100	0.09260		mg/Kg		93	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

106

131 S1+

110

Lab Sample ID: LCSD 880-11112/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 11221** Prep Batch: 11112

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09459		mg/Kg		95	70 - 130	8	35
Toluene	0.100	0.09920		mg/Kg		99	70 - 130	9	35
Ethylbenzene	0.100	0.1011		mg/Kg		101	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1972		mg/Kg		99	70 - 130	6	35
o-Xylene	0.100	0.09839		mg/Kg		98	70 - 130	6	35

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m-Xylene & p-Xylene			0.200	0.1972	mg/Kg	99	70 - 130	6	
o-Xylene			0.100	0.09839	mg/Kg	98	70 - 130	6	
	LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	121		70 - 130						

Lab Sample ID: 890-1502-61 MS Client Sample ID: BH-61 (15) Prep Type: Total/NA

Matrix: Solid Analysis Batch: 11221

70 - 130

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U F1 F2	0.100	0.02127	F1	mg/Kg		21	70 - 130	
Toluene	<0.00199	U F1 F2	0.100	0.03376	F1	mg/Kg		32	70 - 130	
Ethylbenzene	<0.00199	U F1 F2	0.100	0.03579	F1	mg/Kg		36	70 - 130	
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.200	0.06567	F1	mg/Kg		33	70 - 130	
o-Xylene	< 0.00199	U F1 F2	0.100	0.03476	F1	mg/Kg		34	70 - 130	

Surrogate	%Recovery	Qualifier	Limits					
	MS	MS						
o-Xylene	<0.00199	U F1 F2	0.100	0.03476	F1	mg/Kg	34	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.200	0.06567	F1	mg/Kg	33	70 - 130
Ethylbenzene	<0.00199	U F1 F2	0.100	0.03579	F1	mg/Kg	36	70 - 130

70 - 130

70 - 130

Lab Sample ID: 890-1502-61 MSD Client Sample ID: BH-61 (15)

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 11221** Prep Batch: 11112

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U F1 F2	0.0998	0.05929	F1 F2	mg/Kg		59	70 - 130	94	35
Toluene	<0.00199	U F1 F2	0.0998	0.06669	F1 F2	mg/Kg		65	70 - 130	66	35
Ethylbenzene	<0.00199	U F1 F2	0.0998	0.07404	F2	mg/Kg		74	70 - 130	70	35
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.200	0.1347	F1 F2	mg/Kg		67	70 - 130	69	35
o-Xylene	<0.00199	U F1 F2	0.0998	0.07123	F2	mg/Kg		71	70 - 130	69	35

Eurofins Xenco, Carlsbad

Prep Batch: 11112

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1502-61 MSD

Matrix: Solid

Analysis Batch: 11221

Client Sample ID: BH-61 (15)

Prep Type: Total/NA Prep Batch: 11112

MSD MSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 134 S1+ 70 - 130 1,4-Difluorobenzene (Surr) 100 70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11113

Lab Sample ID: MB 880-11113/5-A

Matrix: Solid

Analysis Batch: 11374

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200		0.00200		mg/Kg		11/01/21 12:16	11/03/21 17:26	1
Toluene	<0.00200		0.00200		mg/Kg		11/01/21 12:16	11/03/21 17:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 17:26	1
m-Xylene & p-Xylene	<0.00400		0.00400		mg/Kg		11/01/21 12:16	11/03/21 17:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 17:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 12:16	11/03/21 17:26	1
-									

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117	70 - 130	11/01/21 12:16	11/03/21 17:26	1
1,4-Difluorobenzene (Surr)	107	70 - 130	11/01/21 12:16	11/03/21 17:26	1

Lab Sample ID: LCS 880-11113/1-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 11374

						Prep Batch: 11113
Spike	LCS	LCS				%Rec.
Added	Result	Qualifier	Unit	D	%Rec	Limits

Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.100	0.09035		mg/Kg		90	70 - 130
Toluene	0.100	0.09580		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.1041		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	0.200	0.1993		mg/Kg		100	70 - 130
o-Xylene	0.100	0.09761		mg/Kg		98	70 - 130

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	115	70 - 130
1,4-Difluorobenzene (Surr)	105	70 - 130

Lab Sample ID: LCSD 880-11113/2-A

Matrix: Solid

Analysis Batch: 11374

Cliant	Cample	ID: Lab	Control	l Sample Dup
CHEIL	Samue	ID. Lau	COILLO	i Sailible Dub

Prep Type: Total/NA

Prep Batch: 11113

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09227		mg/Kg		92	70 - 130	2	35
Toluene	0.100	0.09735		mg/Kg		97	70 - 130	2	35
Ethylbenzene	0.100	0.1026		mg/Kg		103	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1995		mg/Kg		100	70 - 130	0	35
o-Xylene	0.100	0.09796		mg/Kg		98	70 - 130	0	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130

Eurofins Xenco, Carlsbad

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-11113/2-A **Matrix: Solid**

Analysis Batch: 11374

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11113

LCSD LCSD

Surrogate %Recovery Qualifier Limits 1,4-Difluorobenzene (Surr) 107 70 - 130

Lab Sample ID: 890-1502-81 MS Client Sample ID: BH-81 (15)

Prep Batch: 11113

Matrix: Solid Prep Type: Total/NA Analysis Batch: 11374

MS MS Sample Sample Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Benzene <0.00199 U F2 F1 0.0990 0.08474 mg/Kg 85 70 - 130 Toluene <0.00199 U F2 F1 0.0990 0.09027 89 70 - 130 mg/Kg Ethylbenzene <0.00199 U F2 F1 0.0990 0.09777 mg/Kg 97 70 - 130 70 - 130 0.198 0.1912 m-Xylene & p-Xylene <0.00398 U F2 F1 mg/Kg 96 o-Xylene <0.00199 U F2 F1 0.0990 0.09409 mg/Kg 95 70 - 130

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	118	70 - 130
1,4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: 890-1502-81 MSD Client Sample ID: BH-81 (15)

Matrix: Solid

Analysis Batch: 11374

Prep Type: Total/NA

Prep Batch: 11113

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U F2 F1	0.100	0.04227	F2 F1	mg/Kg		41	70 - 130	67	35
Toluene	<0.00199	U F2 F1	0.100	0.04380	F2 F1	mg/Kg		42	70 - 130	69	35
Ethylbenzene	<0.00199	U F2 F1	0.100	0.05968	F2 F1	mg/Kg		58	70 - 130	48	35
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.201	0.1091	F2 F1	mg/Kg		53	70 - 130	55	35
o-Xylene	<0.00199	U F2 F1	0.100	0.04780	F2 F1	mg/Kg		48	70 - 130	65	35

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	96	70 - 130
1.4-Difluorobenzene (Surr)	86	70 - 130

Lab Sample ID: MB 880-11114/5-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 11374 MB MB

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Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Benzene 0.00200 11/01/21 12:18 11/04/21 05:00 <0.00200 mg/Kg 11/01/21 12:18 Toluene <0.00200 U 0.00200 mg/Kg 11/04/21 05:00 Ethylbenzene <0.00200 U 0.00200 mg/Kg 11/01/21 12:18 11/04/21 05:00 <0.00400 U 0.00400 11/01/21 12:18 11/04/21 05:00 m-Xylene & p-Xylene mg/Kg o-Xylene <0.00200 U 0.00200 mg/Kg 11/01/21 12:18 11/04/21 05:00 <0.00400 U 0.00400 11/01/21 12:18 11/04/21 05:00 Xylenes, Total mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	11/01/21 12:18	11/04/21 05:00	1
1,4-Difluorobenzene (Surr)	105		70 - 130	11/01/21 12:18	11/04/21 05:00	1

Eurofins Xenco, Carlsbad

Prep Batch: 11114

Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Spike

Added

0.100

0.100

0.100

0.200

0.100

LCS LCS

0.09032

0.09084

0.09641

0.1881

0.09302

0.1809

0.09153

Result Qualifier

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-11114/1-A

Lab Sample ID: LCSD 880-11114/2-A

Matrix: Solid Analysis Batch: 11374

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

Matrix: Solid

Prep Type: Total/NA

			Prep Batch: 11114					
			%Rec.					
Unit	D	%Rec	Limits					
mg/Kg		90	70 - 130					
mg/Kg		91	70 - 130					
mg/Kg		96	70 - 130					

70 - 130

70 - 130

94

93

90

92

LCS LCS Qualifier Surrogate %Recovery

Limits 4-Bromofluorobenzene (Surr) 70 - 130 114 1,4-Difluorobenzene (Surr) 106 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

70 - 130

70 - 130

Prep Batch: 11114 RPD

2

35

35

35

35

35

Analysis Batch: 11374 LCSD LCSD Spike %Rec. Result Qualifier Limit Analyte Added Unit D %Rec Limits RPD Benzene 0.100 0.08744 mg/Kg 87 70 - 130 3 Toluene 0.100 0.09130 mg/Kg 91 70 - 130 Ethylbenzene 0.100 0.09282 mg/Kg 93 70 - 130

0.200

0.100

LCSD LCSD Qualifier Limits Surrogate %Recovery 4-Bromofluorobenzene (Surr) 112 70 - 130 1,4-Difluorobenzene (Surr) 107 70 - 130

Lab Sample ID: 890-1502-101 MS

Matrix: Solid

m-Xylene & p-Xylene

o-Xylene

Analysis Batch: 11374

Client Sample ID: SW-10 (0-6) Prep Type: Total/NA

Prep Batch: 11114

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F2 F1	0.100	0.05871	F1	mg/Kg		58	70 - 130	
Toluene	<0.00200	U F2 F1	0.100	0.06635	F1	mg/Kg		66	70 - 130	
Ethylbenzene	<0.00200	U F2 F1	0.100	0.07485		mg/Kg		75	70 - 130	
m-Xylene & p-Xylene	<0.00399	U F2 F1	0.200	0.1433		mg/Kg		72	70 - 130	
o-Xylene	<0.00200	U F2 F1	0.100	0.07000	F1	mg/Kg		69	70 - 130	

IVIS	IVIS	
%Recovery	Qualifier	Limits
123		70 - 130
	%Recovery	%Recovery Qualifier 123

Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 99 70 - 130

Lab Sample ID: 890-1502-101 MSD

Matrix: Solid

Analysis Batch: 11374									Prep	Batch:	11114
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U F2 F1	0.100	0.04046	F2 F1	mg/Kg		39	70 - 130	37	35
Toluene	<0.00200	U F2 F1	0.100	0.04350	F2 F1	mg/Kg		43	70 - 130	42	35
Ethylbenzene	<0.00200	U F2 F1	0.100	0.04739	F2 F1	mg/Kg		47	70 - 130	45	35

Eurofins Xenco, Carlsbad

Client Sample ID: SW-10 (0-6)

Prep Type: Total/NA

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Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 11207

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1502-101 MSD Client Sample ID: SW-10 (0-6)

Matrix: Solid

Analysis Batch: 11374									Prep	Batch:	11114
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
m-Xylene & p-Xylene	<0.00399	U F2 F1	0.200	0.09484	F2 F1	mg/Kg		47	70 - 130	41	35
o-Xylene	<0.00200	U F2 F1	0.100	0.04771	F2 F1	mg/Kg		47	70 - 130	38	35

MSD MSD %Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 70 - 130 123 1,4-Difluorobenzene (Surr) 101 70 - 130

Lab Sample ID: MB 880-11207/5-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 11206

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/02/21 09:20	11/02/21 13:33	-
Toluene	<0.00200	U	0.00200		mg/Kg		11/02/21 09:20	11/02/21 13:33	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/02/21 09:20	11/02/21 13:33	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/02/21 09:20	11/02/21 13:33	
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/02/21 09:20	11/02/21 13:33	
Xylenes, Total	< 0.00400	U	0.00400		mg/Kg		11/02/21 09:20	11/02/21 13:33	

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 107 70 - 130 11/02/21 09:20 11/02/21 13:33 4-Bromofluorobenzene (Surr) 11/02/21 13:33 1,4-Difluorobenzene (Surr) 71 70 - 130 11/02/21 09:20

Lab Sample ID: MB 880-11258/5-A

Matrix: Solid

Analysis Batch: 11259

	Client Sample ID: Method Blank
	Prep Type: Total/NA
	Prep Batch: 11258
MB MB	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/02/21 15:13	11/03/21 12:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/02/21 15:13	11/03/21 12:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/02/21 15:13	11/03/21 12:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/02/21 15:13	11/03/21 12:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/02/21 15:13	11/03/21 12:01	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/02/21 15:13	11/03/21 12:01	1

	IND	III D					
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	54	S1-	70 - 130	-	11/02/21 15:13	11/03/21 12:01	1
1,4-Difluorobenzene (Surr)	182	S1+	70 - 130		11/02/21 15:13	11/03/21 12:01	1

MR MR

Lab Sample ID: MB 880-11388/5-A

Matrix: Solid

Analysis Batch: 11420

Client Sample ID: Method Blank	
Prep Type: Total/NA	

Prep Batch: 11388

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/04/21 08:30	11/04/21 11:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/04/21 08:30	11/04/21 11:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/04/21 08:30	11/04/21 11:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/04/21 08:30	11/04/21 11:26	1

Eurofins Xenco, Carlsbad

1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-11388/5-A **Matrix: Solid**

Analysis Batch: 11420

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11388

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/04/21 08:30	11/04/21 11:26	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/04/21 08:30	11/04/21 11:26	1

MD MD

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	11/04/21 08:30	11/04/21 11:26	1
1,4-Difluorobenzene (Surr)	99		70 - 130	11/04/21 08:30	11/04/21 11:26	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-11388/1-A **Matrix: Solid**

Analysis Batch: 11420

Prep Type: Total/NA

Prep Batch: 11388

	Бріке	LUS	LUS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07875		mg/Kg		79	70 - 130	
Toluene	0.100	0.09099		mg/Kg		91	70 - 130	
Ethylbenzene	0.100	0.1049		mg/Kg		105	70 - 130	
m-Xylene & p-Xylene	0.200	0.1959		mg/Kg		98	70 - 130	
o-Xylene	0.100	0.1016		mg/Kg		102	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	129	70 - 130
1,4-Difluorobenzene (Surr)	85	70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11388

Matrix: Solid **Analysis Batch: 11420**

Lab Sample ID: LCSD 880-11388/2-A

7 maryoro Batom 11 120								<i>-</i> - - - - - - - - - -	
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07843		mg/Kg		78	70 - 130	0	35
Toluene	0.100	0.07723		mg/Kg		77	70 - 130	16	35
Ethylbenzene	0.100	0.07689		mg/Kg		77	70 - 130	31	35
m-Xylene & p-Xylene	0.200	0.1621		mg/Kg		81	70 - 130	19	35
o-Xylene	0.100	0.08020		mg/Kg		80	70 - 130	24	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	105	70 - 130
1.4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: 890-1502-53 MS Client Sample ID: BH-53 (15)

Matrix: Solid

Analysis Batch: 11420

Released to Imaging: 9/1/2023 2:55:43 PM

Prep Type: Total/NA

Prep Batch: 11388

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.0994	0.07316		mg/Kg		74	70 - 130	
Toluene	<0.00202	U	0.0994	0.07604		mg/Kg		75	70 - 130	
Ethylbenzene	<0.00202	U	0.0994	0.07655		mg/Kg		77	70 - 130	
m-Xylene & p-Xylene	<0.00403	U	0.199	0.1626		mg/Kg		82	70 - 130	
o-Xylene	<0.00202	U	0.0994	0.08042		mg/Kg		81	70 - 130	

Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Limits

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1502-53 MS

MS MS

%Recovery Qualifier

Matrix: Solid

Surrogate

Analysis Batch: 11420

Client Sample ID: BH-53 (15)

Prep Type: Total/NA

Prep Batch: 11388

4-Bromofluorobenzene (Surr) 124 70 - 130 1,4-Difluorobenzene (Surr) 100 70 - 130

Lab Sample ID: 890-1502-53 MSD Client Sample ID: BH-53 (15)

Matrix: Solid

Analysis Batch: 11420

Prep Type: Total/NA Prep Batch: 11388

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U	0.0998	0.08660		mg/Kg		87	70 - 130	17	35
Toluene	<0.00202	U	0.0998	0.08136		mg/Kg		80	70 - 130	7	35
Ethylbenzene	<0.00202	U	0.0998	0.07768		mg/Kg		78	70 - 130	1	35
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1611		mg/Kg		81	70 - 130	1	35
o-Xylene	<0.00202	U	0.0998	0.08199		mg/Kg		82	70 - 130	2	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: MB 880-11445/5-A

Matrix: Solid

Analysis Batch: 11449

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11445

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/04/21 11:11	11/04/21 21:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/04/21 11:11	11/04/21 21:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/04/21 11:11	11/04/21 21:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/04/21 11:11	11/04/21 21:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/04/21 11:11	11/04/21 21:28	1
Xvlenes, Total	< 0.00400	U	0.00400		ma/Ka		11/04/21 11:11	11/04/21 21:28	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	65	S1-	70 - 130	11/04/21 11:11	11/04/21 21:28	1
1 4-Difluorohenzene (Surr)	196	S1+	70 130	11/04/21 11:11	11/04/21 21:28	1

Lab Sample ID: LCS 880-11445/1-A

Released to Imaging: 9/1/2023 2:55:43 PM

Matrix: Solid

Analysis Batch: 11449

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11445

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1225		mg/Kg		122	70 - 130	
Toluene	0.100	0.1133		mg/Kg		113	70 - 130	
Ethylbenzene	0.100	0.1054		mg/Kg		105	70 - 130	
m-Xylene & p-Xylene	0.200	0.2176		mg/Kg		109	70 - 130	
o-Xylene	0.100	0.1278		mg/Kg		128	70 - 130	

LCS LCS

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 103 70 - 130

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-11445/1-A

Matrix: Solid

Analysis Batch: 11449

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11445

LCS LCS

Surrogate %Recovery Qualifier Limits 1,4-Difluorobenzene (Surr) 230 S1+ 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11445

Lab Sample ID: LCSD 880-11445/2-A **Matrix: Solid Analysis Batch: 11449**

Spike LCSD LCSD RPD %Rec. Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Benzene 0.100 0.09174 mg/Kg 92 70 - 130 29 35 Toluene 0.100 0.08621 mg/Kg 86 70 - 130 27 35 Ethylbenzene 0.100 0.07899 mg/Kg 79 70 - 130 29 35 0.200 0.1558 70 - 130 m-Xylene & p-Xylene mg/Kg 78 33 35 o-Xylene 0.100 0.09402 mg/Kg 94 70 - 130 30 35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	82	70 - 130
1,4-Difluorobenzene (Surr)	234 S1+	70 - 130

Client Sample ID: Matrix Spike Lab Sample ID: 890-1520-A-1-B MS

Matrix: Solid

Analysis Batch: 11449

Prep Type: Total/NA

Prep Batch: 11445

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.00453	F1	0.0996	0.07184	F1	mg/Kg		68	70 - 130	
Toluene	0.00416	F1 F2	0.0996	0.002115	F1	mg/Kg		-2	70 - 130	
Ethylbenzene	<0.00200	U F1 F2	0.0996	0.06456	F1	mg/Kg		65	70 - 130	
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.199	0.1288	F1	mg/Kg		64	70 - 130	
o-Xylene	<0.00200	U F1 F2	0.0996	0.08438		mg/Kg		85	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1.4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-1520-A-1-C MSD

Matrix: Solid

Analysis Batch: 11449

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 11445

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.00453	F1	0.100	0.06470	F1	mg/Kg		60	70 - 130	10	35
Toluene	0.00416	F1 F2	0.100	0.03154	F1 F2	mg/Kg		27	70 - 130	175	35
Ethylbenzene	<0.00200	U F1 F2	0.100	0.02033	F1 F2	mg/Kg		20	70 - 130	104	35
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.200	0.01225	F1 F2	mg/Kg		5	70 - 130	165	35
o-Xylene	<0.00200	U F1 F2	0.100	0.01299	F1 F2	mg/Kg		13	70 - 130	147	35

MSD	MSD
covery	Qualifier

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	61	S1-	70 - 130
1,4-Difluorobenzene (Surr)	204	S1+	70 - 130

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-11449/8

Matrix: Solid Analysis Batch: 11449 Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			11/04/21 15:47	1
Toluene	<0.00200	U	0.00200		mg/Kg			11/04/21 15:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			11/04/21 15:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			11/04/21 15:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			11/04/21 15:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			11/04/21 15:47	1

MB MB Surrogate %Recovery Qualifier Dil Fac Limits Prepared Analyzed 4-Bromofluorobenzene (Surr) 63 S1-70 - 130 11/04/21 15:47 187 S1+ 70 - 130 11/04/21 15:47 1,4-Difluorobenzene (Surr)

Lab Sample ID: LCS 880-11449/3

Matrix: Solid

Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene

o-Xylene

Analysis Batch: 11449

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Spike	LCS	LCS				%Rec.	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
 0.100	0.1209		mg/Kg		121	70 - 130	
0.100	0.1145		mg/Kg		114	70 - 130	
0.100	0.1064		mg/Kg		106	70 - 130	
0.200	0.2177		mg/Kg		109	70 - 130	
0.100	0.1244		mg/Kg		124	70 - 130	

LCS LCS %Recovery Qualifier Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 94 190 S1+ 70 - 130 1,4-Difluorobenzene (Surr)

Lab Sample ID: LCSD 880-11449/4

Matrix: Solid

Analysis Batch: 11449

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

	Spike	LCSD LCS	SD .			%Rec.		RPD
Analyte	Added	Result Qua	lifier Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1235	mg/Kg		123	70 - 130	2	35
Toluene	0.100	0.1165	mg/Kg		117	70 - 130	2	35
Ethylbenzene	0.100	0.1076	mg/Kg		108	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2185	mg/Kg		109	70 - 130	0	35
o-Xylene	0.100	0.1273	mg/Kg		127	70 - 130	2	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	198	S1+	70 - 130

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-11223/1-A

Lab Sample ID: LCS 880-11223/2-A

Matrix: Solid

Analysis Batch: 11317

Analysis Batch: 11317

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11223

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		11/02/21 11:44	11/03/21 10:40	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/02/21 11:44	11/03/21 10:40	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/21 11:44	11/03/21 10:40	1
	МВ	МВ							
	IVID	IVID							

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108	70 - 130	11/02/21 11:44	11/03/21 10:40	1
o-Terphenyl	113	70 - 130	11/02/21 11:44	11/03/21 10:40	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11223

LCS LCS Spike %Rec. Added Analyte Result Qualifier Unit D %Rec Limits 1194 Gasoline Range Organics 1000 mg/Kg 119 70 - 130 (GRO)-C6-C10 1000 1003 Diesel Range Organics (Over mg/Kg 100 70 - 130C10-C28)

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	116	70 - 130
o-Terphenyl	109	70 - 130

Lab Sample ID: LCSD 880-11223/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 11317

Prep Type: Total/NA

Prep Batch: 11223

Spike LCSD LCSD RPD %Rec. Added Limit Analyte Result Qualifier %Rec Limits RPD Unit D Gasoline Range Organics 1000 1154 mg/Kg 115 70 - 130 20 (GRO)-C6-C10 1000 986.8 mg/Kg 99 70 - 130 2 20

Diesel Range Organics (Over C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	106		70 - 130

Lab Sample ID: 890-1502-1 MS Client Sample ID: BH-1 (6)

Matrix: Solid

Analysis Batch: 11317

Prep Type: Total/NA Prep Batch: 11223

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U F1 F2	997	1550	F1	mg/Kg		155	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	997	1181		mg/Kg		116	70 - 130	
C10-C28)										

Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

MS MS

Lab Sample ID: 890-1502-1 MS

Matrix: Solid

Analysis Batch: 11317

Client Sample ID: BH-1 (6) Prep Type: Total/NA

Prep Batch: 11223

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 122 70 - 130 o-Terphenyl 114 70 - 130

Lab Sample ID: 890-1502-1 MSD Client Sample ID: BH-1 (6)

Matrix: Solid

Analysis Batch: 11317

Prep Type: Total/NA

Prep Batch: 11223 %Rec. RPD Limits RPD Limit 70 - 13032 20

Sample Sample Spike MSD MSD Analyte Result Qualifier Added Result Qualifier Unit D %Rec <49.9 UF1 F2 1000 1120 F2 112 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1198 <49.9 U mg/Kg 117 70 - 13020 C10-C28)

MSD MSD %Recovery Surrogate Qualifier Limits 70 - 130 1-Chlorooctane 114 109 70 - 130 o-Terphenyl

Lab Sample ID: MB 880-11255/1-A Client Sample ID: Method Blank **Matrix: Solid**

Analysis Batch: 11321

Prep Type: Total/NA

Prep Batch: 11255

MB MB MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 mg/Kg 11/02/21 14:45 11/03/21 10:22 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 11/02/21 14:45 11/03/21 10:22 C10-C28) 50.0 OII Range Organics (Over C28-C36) <50.0 U 11/02/21 14:45 11/03/21 10:22 mg/Kg

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 98 70 - 130 11/02/21 14:45 11/03/21 10:22 11/02/21 14:45 115 70 - 130 11/03/21 10:22 o-Terphenyl

Lab Sample ID: LCS 880-11255/2-A Client Sample ID: Lab Control Sample **Matrix: Solid**

Analysis Batch: 11321

Prep Type: Total/NA Prep Batch: 11255

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	942.0		mg/Kg		94	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1089		mg/Kg		109	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	106		70 - 130

Lab Sample ID: LCSD 880-11255/3-A

Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11255

		Spike	LCSD	LCSD				%Rec.		RPD	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics		1000	1055		mg/Kg		105	70 - 130	11	20	
(GRO)-C6-C10											
Diesel Range Organics (Over		1000	1037		mg/Kg		104	70 - 130	5	20	
	Gasoline Range Organics (GRO)-C6-C10	Gasoline Range Organics (GRO)-C6-C10	Analyte Added Gasoline Range Organics 1000 (GRO)-C6-C10	Analyte Added Result Gasoline Range Organics 1000 1055 (GRO)-C6-C10	AnalyteAddedResultQualifierGasoline Range Organics10001055(GRO)-C6-C1010001000	AnalyteAddedResultQualifierUnitGasoline Range Organics10001055mg/Kg(GRO)-C6-C10	Analyte Added Result Qualifier Unit D Gasoline Range Organics 1000 1055 mg/Kg (GRO)-C6-C10	AnalyteAddedResultQualifierUnitD%RecGasoline Range Organics10001055mg/Kg105(GRO)-C6-C10	AnalyteAddedResultQualifierUnitD%RecLimitsGasoline Range Organics10001055mg/Kg10570 - 130(GRO)-C6-C10	AnalyteAddedResultQualifierUnitD%RecLimitsRPDGasoline Range Organics10001055mg/Kg10570 - 13011(GRO)-C6-C10	AnalyteAddedResultQualifierUnitD%RecLimitsRPDLimitGasoline Range Organics10001055mg/Kg10570 - 1301120(GRO)-C6-C10

C10-C28)

Matrix: Solid

Analysis Batch: 11321

LCSD LCSD %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 100 o-Terphenyl 108 70 - 130

Lab Sample ID: 890-1502-21 MS Client Sample ID: BH-21 (6)

Matrix: Solid

Prep Type: Total/NA **Analysis Batch: 11321** Prep Batch: 11255

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits <49.9 U 997 101 70 - 130 Gasoline Range Organics 1011 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 997 847.1 mg/Kg 85 70 - 130 C10-C28)

MS MS Qualifier Limits Surrogate %Recovery 1-Chlorooctane 89 70 - 130 o-Terphenyl 94 70 - 130

Lab Sample ID: 890-1502-21 MSD Client Sample ID: BH-21 (6) Prep Type: Total/NA

Matrix: Solid

C10-C28)

o-Terphenyl

Analysis Batch: 11321

Prep Batch: 11255 Sample Sample Spike MSD MSD %Rec. **RPD** Limit Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Gasoline Range Organics <49.9 U 1000 1099 110 20 70 - 130 8 mg/Kg (GRO)-C6-C10 <49.9 U 1000 943.3 94 70 - 130 Diesel Range Organics (Over mg/Kg 11 20

MSD MSD Surrogate Qualifier Limits %Recovery 1-Chlorooctane 94 70 - 130 101 70 - 130

Lab Sample ID: MB 880-11273/1-A

MB MB

Matrix: Solid

Analysis Batch: 11323

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 11273

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		11/02/21 16:07	11/03/21 10:22	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/02/21 16:07	11/03/21 10:22	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/21 16:07	11/03/21 10:22	1

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Client: Tetra Tech, Inc. Job ID: 890-1502-1 SDG: 212C-MD-02230 Project/Site: Kaiser SWD

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-11273/1-A

Matrix: Solid

Analysis Batch: 11323

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11273

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130		11/02/21 16:07	11/03/21 10:22	1
o-Terphenyl	103		70 - 130	1	11/02/21 16:07	11/03/21 10:22	1

Lab Sample ID: LCS 880-11273/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 11323

Prep Type: Total/NA

Prep Batch: 11273

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	883.1		mg/Kg		88	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	916.4		mg/Kg		92	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	80		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 11323

Lab Sample ID: LCSD 880-11273/3-A

Prep Batch: 11273

	Бріке	LCSD	LCSD				%Rec.		KPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	879.9		mg/Kg		88	70 - 130	0	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	1024		mg/Kg		102	70 - 130	11	20	
C10-C28)										

C10-C28)

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	87	70 - 130
o-Terphenyl	85	70 - 130

Lab Sample ID: 890-1502-41 MS Client Sample ID: BH-41 (15) **Matrix: Solid**

Prep Type: Total/NA

Analysis Batch: 11323

Prep Batch: 11273 Spike

	Sample	Sample	Spike	IVIO	IVIO				MREC.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	997	1108		mg/Kg		111	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	997	897.0		mg/Kg		90	70 - 130	
C10-C28)										

MS MS

Surrogate	%Recovery (Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	87		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1502-41 MSD

Analysis Batch: 11323

Matrix: Solid

Client Sample ID: BH-41 (15) Prep Type: Total/NA

Prep Batch: 11273 RPD RPD Limit %Rec Limits

Sample Sample Spike MSD MSD Result Qualifier Analyte babbA Result Qualifier Unit Gasoline Range Organics <49.9 U 1000 1109 mg/Kg 111 70 - 130 0 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over 910.8 mg/Kg 70 - 130<49.9 U 91 2 20 C10-C28)

MSD MSD %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 96 o-Terphenyl 87 70 - 130

Lab Sample ID: MB 880-11356/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 11323

Prep Type: Total/NA

Prep Batch: 11356

MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac 11/03/21 19:59 Gasoline Range Organics <50.0 U 50.0 mg/Kg 11/03/21 10:38 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 11/03/21 10:38 11/03/21 19:59 mg/Kg OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 11/03/21 10:38 11/03/21 19:59

MB MB Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analyzed 1-Chlorooctane 110 70 - 130 11/03/21 10:38 11/03/21 19:59 o-Terphenyl 109 70 - 130 11/03/21 10:38 11/03/21 19:59

Lab Sample ID: LCS 880-11356/2-A

Matrix: Solid

Analysis Batch: 11323

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11356 %Rec.

LCS LCS Spike Added Result Qualifier Analyte Unit D %Rec Limits Gasoline Range Organics 1000 905.5 mg/Kg 91 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1094 mg/Kg 109 70 - 130 C10-C28)

LCS LCS

мв мв

Qualifier Limits %Recovery Surrogate 70 - 130 1-Chlorooctane 103 100 70 - 130 o-Terphenyl

Lab Sample ID: LCSD 880-11356/3-A

Matrix: Solid

Analysis Batch: 11323

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11356

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	1023		mg/Kg		102	70 - 130	12	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	960.5		mg/Kg		96	70 - 130	13	20	
C10-C28)										

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

MS MS

Lab Sample ID: LCSD 880-11356/3-A

Matrix: Solid

Analysis Batch: 11323

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11356

LCSD LCSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 87 70 - 130 o-Terphenyl 84 70 - 130

Lab Sample ID: 890-1502-61 MS

Matrix: Solid

Analysis Batch: 11323

Client Sample ID: BH-61 (15)

Prep Type: Total/NA

Prep Batch: 11356

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	997	482.0	F1	mg/Kg		48	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U F1 F2	997	328.9	F1	mg/Kg		31	70 - 130	

Surrogate %Recovery Qualifier Limits 41 S1-70 - 130 1-Chlorooctane o-Terphenyl 31 S1-70 - 130

Lab Sample ID: 890-1502-61 MSD

Matrix: Solid

Analysis Batch: 11323

Client Sample ID: BH-61 (15) Prep Type: Total/NA

Prep Batch: 11356

Sample Sample Spike MSD MSD %Rec. Result Qualifier Analyte Result Qualifier Added Unit D %Rec Limits RPD Limit Gasoline Range Organics <49.9 U F1 F2 1000 918.0 F2 mg/Kg 92 70 - 130 62 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U F1 F2 1000 633.8 F1 F2 mg/Kg 61 70 - 130 63 20 C10-C28)

Limits

MSD MSD %Recovery Qualifier Surrogate

70 - 130 1-Chlorooctane 75 61 S1o-Terphenyl 70 - 130

Lab Sample ID: MB 880-11364/1-A

Analysis Batch: 11416

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 11364

	INID	IAID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/03/21 11:37	11/04/21 10:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/21 11:37	11/04/21 10:00	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/21 11:37	11/04/21 10:00	1

мв мв

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	11/03/21 11:3	7 11/04/21 10:00	1
o-Terphenyl	115		70 - 130	11/03/21 11:3	7 11/04/21 10:00	1

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11/10/2021

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-11364/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 11416

Prep Batch: 11364 Spike LCS LCS Added Analyte Result Qualifier Unit %Rec Limits D Gasoline Range Organics 1000 840.1 mg/Kg 84 70 - 130 (GRO)-C6-C10 1000 Diesel Range Organics (Over 883.5 mg/Kg 88 70 - 130

C10-C28)

LCS LCS %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 81 o-Terphenyl 89 70 - 130

Lab Sample ID: LCSD 880-11364/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 11416

Diesel Range Organics (Over

Prep Batch: 11364 Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 Gasoline Range Organics 887.3 mg/Kg 89 70 - 130 5 20 (GRO)-C6-C10

925.6

mg/Kg

93

70 - 130

1000

C10-C28)

LCSD LCSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 89 70 - 130 o-Terphenyl 97 70 - 130

Lab Sample ID: 890-1502-81 MS Client Sample ID: BH-81 (15) Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 11416

Prep Batch: 11364 Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits <49.9 U 997 995.4 100 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 997 818.8 80 70 - 130 Diesel Range Organics (Over <49.9 U mg/Kg

C10-C28)

MS MS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 95 70 - 130 99 70 - 130 o-Terphenyl

Lab Sample ID: 890-1502-81 MSD Client Sample ID: BH-81 (15) Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 11416									Prep Batch: 11364			
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	985.1		mg/Kg		99	70 - 130	1	20	
Diesel Range Organics (Over	<49.9	U	1000	815.8		mg/Kg		79	70 - 130	0	20	

C10-C28)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130

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Prep Type: Total/NA

5

20

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1502-81 MSD

Matrix: Solid

Analysis Batch: 11416

Client Sample ID: BH-81 (15)

Prep Type: Total/NA

Prep Batch: 11364

MSD MSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 97 70 - 130

Lab Sample ID: MB 880-11375/1-A

Matrix: Solid

Analysis Batch: 11418

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11375

мв мв

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 mg/Kg 11/03/21 13:15 11/04/21 10:00 (GRO)-C6-C10 50.0 Diesel Range Organics (Over <50.0 U mg/Kg 11/03/21 13:15 11/04/21 10:00 C10-C28) <50.0 U OII Range Organics (Over C28-C36) 50.0 mg/Kg 11/03/21 13:15 11/04/21 10:00

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	11/03/21 13:3	5 11/04/21 10:00	1
o-Terphenyl	123		70 - 130	11/03/21 13:1	5 11/04/21 10:00	1

Lab Sample ID: LCS 880-11375/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 11418

Prep Type: Total/NA Prep Batch: 11375 Spike LCS LCS

Limits

Analyte Added Result Qualifier Unit %Rec D Gasoline Range Organics 1000 976.2 mg/Kg 98 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1075 mg/Kg 107 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery (Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: LCSD 880-11375/3-A

Analysis Batch: 11418

Matrix: Solid

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11375

	Spike	LUSD	LUSD				70Kec.		KPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	747.4	*1	mg/Kg		75	70 - 130	27	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	959.3		mg/Kg		96	70 - 130	11	20	

Calle

C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	85		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1502-101 MS

Matrix: Solid Analysis Batch: 11418 Client Sample ID: SW-10 (0-6) Prep Type: Total/NA

Prep Batch: 11375

Sample Sample Spike MS MS Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits Gasoline Range Organics <49.9 U*1 997 925.0 mg/Kg 91 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 997 908 6 mg/Kg 88 70 - 130 <49.9 U C10-C28)

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 101 o-Terphenyl 93 70 - 130

Lab Sample ID: 890-1502-101 MSD Client Sample ID: SW-10 (0-6)

Matrix: Solid

Analysis Batch: 11418

Prep Type: Total/NA

Prep Batch: 11375

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit <49.9 U *1 1000 105 Gasoline Range Organics 1063 mg/Kg 70 - 130 14 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 1000 979.4 mg/Kg 94 70 - 130 8 20 C10-C28)

MSD MSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	109	70 - 130
o-Terphenyl	97	70 - 130

Lab Sample ID: MB 880-11376/1-A

Matrix: Solid

Analysis Batch: 11414

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11376

MR MR Result Qualifier Analyte RL MDL Unit Prepared Analyzed Dil Fac 11/03/21 13:58 Gasoline Range Organics <50.0 U 50.0 11/04/21 09:53 mg/Kg (GRO)-C6-C10 50.0 11/03/21 13:58 11/04/21 09:53 Diesel Range Organics (Over <50.0 U mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 11/03/21 13:58 11/04/21 09:53

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	11/03/21 13:58	11/04/21 09:53	1
o-Terphenyl	94		70 - 130	11/03/21 13:58	11/04/21 09:53	1

Lab Sample ID: LCS 880-11376/2-A

Matrix: Solid

Analysis Batch: 11414

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 11376

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	977.8		mg/Kg		98	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	838.1		mg/Kg		84	70 - 130	
C10-C28)								

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

LCS LCS

Lab Sample ID: LCS 880-11376/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 11414

Prep Type: Total/NA

Prep Batch: 11376

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 108 70 - 130 o-Terphenyl 88 70 - 130

Lab Sample ID: LCSD 880-11376/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 11414

Prep Type: Total/NA

Prep Batch: 11376

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 70 - 130 1000 965.5 97 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 913.0 mg/Kg 91 70 - 1309 20

C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits		
1-Chlorooctane	103		70 - 130		
o-Terphenyl	95		70 - 130		

Client Sample ID: SW-30 (RS) (6) Lab Sample ID: 890-1502-121 MS

Matrix: Solid

Analysis Batch: 11414

Prep Type: Total/NA

Prep Batch: 11376

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	997	1036		mg/Kg		101	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	997	863.0		mg/Kg		84	70 - 130	
C10-C28)										

C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 100 o-Terphenyl 92 70 - 130

Lab Sample ID: 890-1502-121 MSD Client Sample ID: SW-30 (RS) (6)

Matrix: Solid

Analysis Batch: 11414

Prep Type: Total/NA

Prep Batch: 11376

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<49.9	U	1000	954.6		mg/Kg		93	70 - 130	8	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<49.9	U	1000	789.2		mg/Kg		77	70 - 130	9	20	
C10-C28)												

C10-C28)

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	92	70 - 130
o-Terphenyl	84	70 - 130

Job ID: 890-1502-1

Client Sample ID: Method Blank

Prep Type: Soluble

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-11227/1-A

Matrix: Solid

Analysis Batch: 11379

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			11/06/21 05:15	1

Lab Sample ID: LCS 880-11227/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 11379

	Бріке	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	266.7		mg/Kg		107	90 - 110	

Lab Sample ID: LCSD 880-11227/3-A Client Sample ID: Lab Control Sample Dup Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 11379

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	267.5		mg/Kg		107	90 - 110	0	20

Client Sample ID: Matrix Spike Lab Sample ID: 890-1499-A-1-H MS **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 11379

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	987	F1	248	1189	F1	mg/Kg		82	90 - 110	

Lab Sample ID: 890-1499-A-1-I MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 11379

	Sample	Sample	эріке	MISD	MISD				%Rec.		KPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	987	F1	248	1194	F1	mg/Kg		84	90 - 110	0	20	

Lab Sample ID: MB 880-11233/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 11381

MB MB

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			11/07/21 01:48	1

Lab Sample ID: LCS 880-11233/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 11381

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	229.5	,	mg/Kg		92	90 - 110	

Lab Sample ID: LCSD 880-11233/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 11381

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	233.0		mg/Kg		93	90 - 110	1	20

Client Sample ID: SW-1 (0-6)

Client Sample ID: SW-1 (0-6)

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1502-92 MS

Analysis Batch: 11381

Sample Sample Spike MS MS %Rec. Result Qualifier Analyte Added Result Qualifier Unit D %Rec Limits Chloride 1430 1250 2745 mg/Kg 105 90 - 110

Lab Sample ID: 890-1502-92 MSD

Matrix: Solid

Matrix: Solid

Analysis Batch: 11381

Sample Sample Spike MSD MSD %Rec. RPD Qualifier RPD Analyte Result Added Result Qualifier Unit D %Rec Limits Limit Chloride 1430 1250 2746 mg/Kg 105 90 - 110

Lab Sample ID: MB 880-11236/1-A

Matrix: Solid

Analysis Batch: 11452

мв мв

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 11/08/21 08:34 mg/Kg

Lab Sample ID: LCS 880-11236/2-A

Matrix: Solid

Analysis Batch: 11452

LCS LCS Spike %Rec. Added Analyte Result Qualifier Unit %Rec Limits Chloride 250 249.1 100 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-11236/3-A

Matrix: Solid

Analysis Batch: 11452

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 249.5 mg/Kg 100 90 - 110

Lab Sample ID: 890-1502-4 MS

Matrix: Solid

Analysis Batch: 11452

Sample Sample Spike MS MS %Rec. Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits Chloride 48 9 253 282 3 mg/Kg 92 90 - 110

Lab Sample ID: 890-1502-4 MSD

Matrix: Solid

Analysis Batch: 11452

MSD MSD %Rec. RPD Sample Sample Spike Added Result Qualifier Result Qualifier Limits RPD Limit Analyte Unit D %Rec Chloride 48.9 253 277.9 mg/Kg 91 90 - 110

Lab Sample ID: 890-1502-111 MS

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Matrix: Solid

Analysis Batch: 11452

Spike Sample MS MS %Rec. Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Chloride 1150 248 1264 mg/Kg 48 90 - 110

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Client Sample ID: SW-20 (15)

Client Sample ID: BH-4 (6) **Prep Type: Soluble**

Client Sample ID: BH-4 (6)

20

Prep Type: Soluble

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1502-111 MSD Client Sample ID: SW-20 (15) **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 11452

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	1150		248	1261	4	mg/Kg		46	90 - 110	0	20

Lab Sample ID: MB 880-11237/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 11453

MB MB Result Qualifier MDL Unit Analyte RL Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 11/07/21 05:07

Lab Sample ID: LCS 880-11237/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 11453

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	236.9		mg/Kg	_	95	90 - 110	

Lab Sample ID: LCSD 880-11237/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 11453

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	241.4		mg/Kg		97	90 - 110	2	20

Lab Sample ID: 890-1502-5 MS Client Sample ID: BH-5 (6) **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 11453

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	123		249	353.6		ma/Ka		93	90 110	

Lab Sample ID: 890-1502-5 MSD Client Sample ID: BH-5 (6) **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 11453

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	123		249	352.1		mg/Kg		92	90 - 110	0	20

Lab Sample ID: 890-1502-15 MS Client Sample ID: BH-15 (6)

Matrix: Solid

Analysis Batch: 11453

	Sa	Sample Sample	Spike	MS	MS				%Rec.
Ana	alyte F	Result Qualifier	Added	Result	t Qualifier	r Unit	D	%Rec	Limits
Chl	oride	4220 F1	1250	5802	. F1	mg/Kg		126	90 - 110

Lab Sample ID: 890-1502-15 MSD Client Sample ID: BH-15 (6) **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 11453

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Analysis Baton: 11400											
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	4220	F1	1250	5826	F1	mg/Kg		128	90 - 110	0	20

Eurofins Xenco, Carlsbad

Prep Type: Soluble

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: BH-25 (15)

Client Sample ID: BH-25 (15)

Client Sample ID: BH-35 (15)

Client Sample ID: BH-35 (15)

Client Sample ID: Method Blank

Prep Type: Soluble

Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-11238/1-A

Matrix: Solid

Analysis Batch: 11454

MB MB

Analyte Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 11/07/21 09:27

Lab Sample ID: LCS 880-11238/2-A **Matrix: Solid**

Analysis Batch: 11454

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 238.0 mg/Kg 95 90 - 110

Lab Sample ID: LCSD 880-11238/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 11454

LCSD LCSD %Rec. RPD Spike Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 234.9 mg/Kg 90 - 110

Lab Sample ID: 890-1502-25 MS

Matrix: Solid

Analysis Batch: 11454

Sample Sample MS MS Spike %Rec. Result Qualifier Added Result Qualifier %Rec Analyte Unit Limits Chloride 447 F1 250 648.9 F1 81 90 - 110 mg/Kg

Lab Sample ID: 890-1502-25 MSD

Matrix: Solid

Analysis Batch: 11454

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 447 F1 656.3 F1 Chloride 250 mg/Kg 84 90 - 110

Lab Sample ID: 890-1502-35 MS

Matrix: Solid

Analysis Batch: 11454

Sample Sample Spike MS MS %Rec. Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits Chloride 333 F1 253 539.3 F1 mg/Kg 90 - 110

Lab Sample ID: 890-1502-35 MSD

Matrix: Solid

Analysis Batch: 11454

MSD MSD %Rec. RPD Sample Sample Spike Added Result Qualifier Result Qualifier Limits RPD Limit Analyte Unit D %Rec Chloride 333 F1 253 539.2 F1 mg/Kg 82 90 - 110

Lab Sample ID: MB 880-11240/1-A

Matrix: Solid

Analysis Batch: 11455

мв мв Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride 5.00 <5.00 mg/Kg 11/08/21 04:07

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-11240/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 11455

LCS LCS %Rec. Spike Analyte Added Result Qualifier %Rec Limits Unit D Chloride 250 232.0 mg/Kg 93 90 - 110

Lab Sample ID: LCSD 880-11240/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 11455

Spike LCSD LCSD %Rec. RPD Added Limits Analyte Result Qualifier Unit D %Rec RPD Limit Chloride 250 233.4 mg/Kg 93 90 - 110

Lab Sample ID: 890-1502-45 MS Client Sample ID: BH-45 (15)

Matrix: Solid Prep Type: Soluble

Analysis Batch: 11455

Spike MS MS %Rec. Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Chloride F1 284 248 510.8 mg/Kg 90 - 110

Lab Sample ID: 890-1502-45 MSD Client Sample ID: BH-45 (15) **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 11455

Sample Sample MSD MSD RPD Spike %Rec. Result Qualifier Added Qualifier %Rec RPD Limit Analyte Result Unit Limits Chloride 284 F1 248 499.4 F1 87 90 - 110 20 mg/Kg

Lab Sample ID: 890-1502-55 MS Client Sample ID: BH-55 (15)

Matrix: Solid

Analysis Batch: 11455

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 4680 F1 1250 Chloride 5790 F1 mg/Kg 89 90 - 110

Lab Sample ID: 890-1502-55 MSD Client Sample ID: BH-55 (15) **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 11455

Sample Spike MSD MSD %Rec. RPD Sample Result Qualifier Added RPD Analyte Result Qualifier Unit D %Rec Limits Limit Chloride 4680 F1 1250 5826 mg/Kg 90 - 110

Lab Sample ID: MB 880-11242/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 11456

мв мв

Result Qualifier RL MDL Dil Fac Analyte Unit Prepared Analyzed Chloride <5.00 5.00 11/08/21 08:35 mg/Kg

Lab Sample ID: LCS 880-11242/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 11456

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Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 236.3 mg/Kg 95 90 - 110

Eurofins Xenco, Carlsbad

Prep Type: Soluble

Prep Type: Soluble

Job ID: 890-1502-1 SDG: 212C-MD-02230

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-11242/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 11456

LCSD LCSD %Rec. RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit D Chloride 250 237.4 mg/Kg 95 90 - 110 20

Lab Sample ID: 890-1502-65 MS Client Sample ID: BH-65 (15) **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 11456

Sample Sample Spike MS MS %Rec. Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits Chloride 823 F1 250 1040 F1 mg/Kg 87 90 - 110

Lab Sample ID: 890-1502-65 MSD Client Sample ID: BH-65 (15) **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 11456

MSD MSD %Rec. RPD Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 823 F1 250 1044 F1 mg/Kg 90 - 110

Lab Sample ID: 890-1502-75 MS Client Sample ID: BH-75 (15) **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 11456

MS MS Sample Sample Spike %Rec. Result Qualifier Result Qualifier Added %Rec Analyte Unit Limits Chloride 982 249 1200 F1 90 - 110 mg/Kg

Lab Sample ID: 890-1502-75 MSD Client Sample ID: BH-75 (15) **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 11456

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 982 F1 1186 F1 Chloride 249 mg/Kg 82 90 - 110

Lab Sample ID: MB 880-11243/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 11705

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride <5.00 5.00 mg/Kg 11/09/21 12:29

мв мв

Lab Sample ID: LCS 880-11243/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 11705

LCS LCS %Rec. Spike Added Result Qualifier Limits Analyte Unit %Rec Chloride 250 251.9 mg/Kg 101 90 - 110

Lab Sample ID: LCSD 880-11243/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 11705

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 253.1 mg/Kg 101 90 - 110 20

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-1502-85 MS Client Sample ID: BH-85 (15) **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 11705

Sample Sample Spike MS MS %Rec. Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits Chloride 656 F1 250 870.1 F1 mg/Kg 86 90 - 110

Lab Sample ID: 890-1502-85 MSD Client Sample ID: BH-85 (15) **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 11705

Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier Added Result Qualifier Limits Limit Analyte Unit D %Rec RPD Chloride 656 F1 250 878.2 F1 mg/Kg 89 90 - 110

Lab Sample ID: 890-1502-124 MS Client Sample ID: SW-33 (RS) (8)

Matrix: Solid Prep Type: Soluble

Analysis Batch: 11705

MS MS %Rec. Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit Limits Chloride 831 F1 252 1043 F1 90 - 110 mg/Kg

Lab Sample ID: 890-1502-124 MSD Client Sample ID: SW-33 (RS) (8) **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 11705

Spike MSD MSD RPD Sample Sample %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec RPD Limit Limits 252 Chloride 831 F1 1043 F1 84 90 - 110 20 mg/Kg

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

GC VOA

Prep Batch: 11021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-11021/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 11022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-121	SW-30 (RS) (6)	Total/NA	Solid	8021B	11076
890-1502-122	SW-31 (RS) (4)	Total/NA	Solid	8021B	11076
890-1502-123	SW-32 (RS) (6)	Total/NA	Solid	8021B	11076
890-1502-124	SW-33 (RS) (8)	Total/NA	Solid	8021B	11076
MB 880-11021/5-A	Method Blank	Total/NA	Solid	8021B	11021
MB 880-11076/5-A	Method Blank	Total/NA	Solid	8021B	11076
LCS 880-11076/1-A	Lab Control Sample	Total/NA	Solid	8021B	11076
LCSD 880-11076/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	11076
890-1502-121 MS	SW-30 (RS) (6)	Total/NA	Solid	8021B	11076
890-1502-121 MSD	SW-30 (RS) (6)	Total/NA	Solid	8021B	11076

Prep Batch: 11075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-1502-1	BH-1 (6)	Total/NA	Solid	5035	
890-1502-2	BH-2 (6)	Total/NA	Solid	5035	
890-1502-3	BH-3 (6)	Total/NA	Solid	5035	
890-1502-4	BH-4 (6)	Total/NA	Solid	5035	
890-1502-5	BH-5 (6)	Total/NA	Solid	5035	
890-1502-6	BH-6 (6)	Total/NA	Solid	5035	
890-1502-7	BH-7 (6)	Total/NA	Solid	5035	
890-1502-8	BH-8 (6)	Total/NA	Solid	5035	
890-1502-9	BH-9 (6)	Total/NA	Solid	5035	
890-1502-10	BH-10 (6)	Total/NA	Solid	5035	
890-1502-11	BH-11 (6)	Total/NA	Solid	5035	
890-1502-12	BH-12 (6)	Total/NA	Solid	5035	
890-1502-13	BH-13 (6)	Total/NA	Solid	5035	
890-1502-14	BH-14 (6)	Total/NA	Solid	5035	
890-1502-15	BH-15 (6)	Total/NA	Solid	5035	
890-1502-16	BH-16 (6)	Total/NA	Solid	5035	
890-1502-17	BH-17 (6)	Total/NA	Solid	5035	
890-1502-18	BH-18 (6)	Total/NA	Solid	5035	
890-1502-19	BH-19 (6)	Total/NA	Solid	5035	
890-1502-20	BH-20 (6)	Total/NA	Solid	5035	
MB 880-11075/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11075/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-11075/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1502-1 MS	BH-1 (6)	Total/NA	Solid	5035	
890-1502-1 MSD	BH-1 (6)	Total/NA	Solid	5035	

Prep Batch: 11076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-121	SW-30 (RS) (6)	Total/NA	Solid	5035	
890-1502-122	SW-31 (RS) (4)	Total/NA	Solid	5035	
890-1502-123	SW-32 (RS) (6)	Total/NA	Solid	5035	
890-1502-124	SW-33 (RS) (8)	Total/NA	Solid	5035	
MB 880-11076/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11076/1-A	Lab Control Sample	Total/NA	Solid	5035	

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

GC VOA (Continued)

Prep Batch: 11076 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-11076/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1502-121 MS	SW-30 (RS) (6)	Total/NA	Solid	5035	
890-1502-121 MSD	SW-30 (RS) (6)	Total/NA	Solid	5035	

Prep Batch: 11109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-21	BH-21 (6)	Total/NA	Solid	5035	
890-1502-22	BH-22 (6)	Total/NA	Solid	5035	
890-1502-23	BH-23 (6)	Total/NA	Solid	5035	
890-1502-24	BH-24 (6)	Total/NA	Solid	5035	
890-1502-25	BH-25 (15)	Total/NA	Solid	5035	
890-1502-26	BH-26 (15)	Total/NA	Solid	5035	
890-1502-27	BH-27 (15)	Total/NA	Solid	5035	
890-1502-28	BH-28 (15)	Total/NA	Solid	5035	
890-1502-29	BH-29 (15)	Total/NA	Solid	5035	
890-1502-30	BH-30 (15)	Total/NA	Solid	5035	
890-1502-31	BH-31 (15)	Total/NA	Solid	5035	
890-1502-32	BH-32 (15)	Total/NA	Solid	5035	
890-1502-33	BH-33 (15)	Total/NA	Solid	5035	
890-1502-34	BH-34 (15)	Total/NA	Solid	5035	
890-1502-35	BH-35 (15)	Total/NA	Solid	5035	
890-1502-36	BH-36 (15)	Total/NA	Solid	5035	
890-1502-37	BH-37 (15)	Total/NA	Solid	5035	
890-1502-38	BH-38 (15)	Total/NA	Solid	5035	
890-1502-39	BH-39 (15)	Total/NA	Solid	5035	
890-1502-40	BH-40 (15)	Total/NA	Solid	5035	
MB 880-11109/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11109/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-11109/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1502-21 MS	BH-21 (6)	Total/NA	Solid	5035	
890-1502-21 MSD	BH-21 (6)	Total/NA	Solid	5035	

Prep Batch: 11111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-1502-41	BH-41 (15)	Total/NA	Solid	5035	
890-1502-42	BH-42 (15)	Total/NA	Solid	5035	
890-1502-43	BH-43 (15)	Total/NA	Solid	5035	
890-1502-44	BH-44 (15)	Total/NA	Solid	5035	
890-1502-45	BH-45 (15)	Total/NA	Solid	5035	
890-1502-46	BH-46 (15)	Total/NA	Solid	5035	
890-1502-47	BH-47 (15)	Total/NA	Solid	5035	
890-1502-48	BH-48 (15)	Total/NA	Solid	5035	
890-1502-49	BH-49 (15)	Total/NA	Solid	5035	
390-1502-50	BH-50 (15)	Total/NA	Solid	5035	
890-1502-51	BH-51 (15)	Total/NA	Solid	5035	
890-1502-52	BH-52 (15)	Total/NA	Solid	5035	
890-1502-54	BH-54 (15)	Total/NA	Solid	5035	
890-1502-55	BH-55 (15)	Total/NA	Solid	5035	
890-1502-56	BH-56 (15)	Total/NA	Solid	5035	
MB 880-11111/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11111/1-A	Lab Control Sample	Total/NA	Solid	5035	

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Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

GC VOA (Continued)

Prep Batch: 11111 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-11111/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1502-41 MS	BH-41 (15)	Total/NA	Solid	5035	
890-1502-41 MSD	BH-41 (15)	Total/NA	Solid	5035	

Prep Batch: 11112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-61	BH-61 (15)	Total/NA	Solid	5035	
890-1502-62	BH-62 (15)	Total/NA	Solid	5035	
890-1502-63	BH-63 (15)	Total/NA	Solid	5035	
890-1502-64	BH-64 (15)	Total/NA	Solid	5035	
890-1502-65	BH-65 (15)	Total/NA	Solid	5035	
890-1502-66	BH-66 (15)	Total/NA	Solid	5035	
890-1502-67	BH-67 (15)	Total/NA	Solid	5035	
890-1502-68	BH-68 (15)	Total/NA	Solid	5035	
890-1502-69	BH-69 (15)	Total/NA	Solid	5035	
890-1502-70	BH-70 (15)	Total/NA	Solid	5035	
890-1502-71	BH-71 (15)	Total/NA	Solid	5035	
890-1502-72	BH-72 (15)	Total/NA	Solid	5035	
890-1502-73	BH-73 (15)	Total/NA	Solid	5035	
890-1502-74	BH-74 (15)	Total/NA	Solid	5035	
890-1502-75	BH-75 (15)	Total/NA	Solid	5035	
890-1502-76	BH-76 (15)	Total/NA	Solid	5035	
890-1502-77	BH-77 (15)	Total/NA	Solid	5035	
890-1502-78	BH-78 (15)	Total/NA	Solid	5035	
890-1502-79	BH-79 (15)	Total/NA	Solid	5035	
890-1502-80	BH-80 (15)	Total/NA	Solid	5035	
MB 880-11112/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11112/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-11112/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1502-61 MS	BH-61 (15)	Total/NA	Solid	5035	
890-1502-61 MSD	BH-61 (15)	Total/NA	Solid	5035	

Prep Batch: 11113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-1502-81	BH-81 (15)	Total/NA	Solid	5035	
890-1502-82	BH-82 (15)	Total/NA	Solid	5035	
890-1502-83	BH-83 (15)	Total/NA	Solid	5035	
390-1502-84	BH-84 (15)	Total/NA	Solid	5035	
390-1502-85	BH-85 (15)	Total/NA	Solid	5035	
890-1502-86	BH-86 (15)	Total/NA	Solid	5035	
890-1502-87	BH-87 (15)	Total/NA	Solid	5035	
390-1502-88	BH-88 (15)	Total/NA	Solid	5035	
890-1502-89	BH-89 (15)	Total/NA	Solid	5035	
390-1502-90	BH90 (RS) (6)	Total/NA	Solid	5035	
890-1502-91	BH-91 (RS) (6)	Total/NA	Solid	5035	
890-1502-92	SW-1 (0-6)	Total/NA	Solid	5035	
890-1502-93	SW-2 (0-6)	Total/NA	Solid	5035	
890-1502-94	SW-3 (0-6)	Total/NA	Solid	5035	
390-1502-95	SW-4 (0-6)	Total/NA	Solid	5035	
890-1502-96	SW-5 (0-6)	Total/NA	Solid	5035	
890-1502-97	SW-6 (0-6)	Total/NA	Solid	5035	

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

GC VOA (Continued)

Prep Batch: 11113 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-98	SW-7 (0-6)	Total/NA	Solid	5035	
890-1502-99	SW-8 (0-6)	Total/NA	Solid	5035	
890-1502-100	SW-9 (0-6)	Total/NA	Solid	5035	
MB 880-11113/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11113/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-11113/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1502-81 MS	BH-81 (15)	Total/NA	Solid	5035	
890-1502-81 MSD	BH-81 (15)	Total/NA	Solid	5035	

Prep Batch: 11114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-1502-101	SW-10 (0-6)	Total/NA	Solid	5035	
890-1502-102	SW-11 (0-6)	Total/NA	Solid	5035	
890-1502-103	SW-12 (10)	Total/NA	Solid	5035	
890-1502-104	SW-13 (15)	Total/NA	Solid	5035	
890-1502-105	SW-14 (15)	Total/NA	Solid	5035	
890-1502-106	SW-15 (15)	Total/NA	Solid	5035	
890-1502-107	SW-16 (15)	Total/NA	Solid	5035	
890-1502-108	SW-17 (15)	Total/NA	Solid	5035	
890-1502-109	SW-18 (15)	Total/NA	Solid	5035	
890-1502-110	SW-19 (15)	Total/NA	Solid	5035	
890-1502-111	SW-20 (15)	Total/NA	Solid	5035	
890-1502-112	SW-21 (15)	Total/NA	Solid	5035	
890-1502-113	SW-22 (15)	Total/NA	Solid	5035	
890-1502-114	SW-23 (15)	Total/NA	Solid	5035	
890-1502-115	SW-24 (15)	Total/NA	Solid	5035	
890-1502-116	SW-25 (15)	Total/NA	Solid	5035	
890-1502-117	SW-26 (15)	Total/NA	Solid	5035	
890-1502-118	SW-27 (15)	Total/NA	Solid	5035	
890-1502-119	SW-28 (15)	Total/NA	Solid	5035	
MB 880-11114/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11114/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-11114/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1502-101 MS	SW-10 (0-6)	Total/NA	Solid	5035	
890-1502-101 MSD	SW-10 (0-6)	Total/NA	Solid	5035	

Analysis Batch: 11206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-1	BH-1 (6)	Total/NA	Solid	8021B	11075
890-1502-2	BH-2 (6)	Total/NA	Solid	8021B	11075
890-1502-3	BH-3 (6)	Total/NA	Solid	8021B	11075
890-1502-4	BH-4 (6)	Total/NA	Solid	8021B	11075
890-1502-5	BH-5 (6)	Total/NA	Solid	8021B	11075
890-1502-6	BH-6 (6)	Total/NA	Solid	8021B	11075
890-1502-7	BH-7 (6)	Total/NA	Solid	8021B	11075
890-1502-8	BH-8 (6)	Total/NA	Solid	8021B	11075
890-1502-9	BH-9 (6)	Total/NA	Solid	8021B	11075
890-1502-10	BH-10 (6)	Total/NA	Solid	8021B	11075
890-1502-11	BH-11 (6)	Total/NA	Solid	8021B	11075
890-1502-12	BH-12 (6)	Total/NA	Solid	8021B	11075
890-1502-13	BH-13 (6)	Total/NA	Solid	8021B	11075

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

GC VOA (Continued)

Analysis Batch: 11206 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-14	BH-14 (6)	Total/NA	Solid	8021B	11075
890-1502-15	BH-15 (6)	Total/NA	Solid	8021B	11075
890-1502-16	BH-16 (6)	Total/NA	Solid	8021B	11075
890-1502-17	BH-17 (6)	Total/NA	Solid	8021B	11075
890-1502-18	BH-18 (6)	Total/NA	Solid	8021B	11075
890-1502-19	BH-19 (6)	Total/NA	Solid	8021B	11075
890-1502-20	BH-20 (6)	Total/NA	Solid	8021B	11075
MB 880-11075/5-A	Method Blank	Total/NA	Solid	8021B	11075
MB 880-11207/5-A	Method Blank	Total/NA	Solid	8021B	11207
LCS 880-11075/1-A	Lab Control Sample	Total/NA	Solid	8021B	11075
LCSD 880-11075/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	11075
890-1502-1 MS	BH-1 (6)	Total/NA	Solid	8021B	11075
890-1502-1 MSD	BH-1 (6)	Total/NA	Solid	8021B	11075

Prep Batch: 11207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-11207/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 11221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
390-1502-21	BH-21 (6)	Total/NA	Solid	8021B	1110
890-1502-22	BH-22 (6)	Total/NA	Solid	8021B	1110
390-1502-23	BH-23 (6)	Total/NA	Solid	8021B	1110
390-1502-24	BH-24 (6)	Total/NA	Solid	8021B	1110
390-1502-25	BH-25 (15)	Total/NA	Solid	8021B	1110
390-1502-26	BH-26 (15)	Total/NA	Solid	8021B	1110
390-1502-27	BH-27 (15)	Total/NA	Solid	8021B	1110
390-1502-28	BH-28 (15)	Total/NA	Solid	8021B	1110
390-1502-29	BH-29 (15)	Total/NA	Solid	8021B	1110
390-1502-30	BH-30 (15)	Total/NA	Solid	8021B	1110
90-1502-31	BH-31 (15)	Total/NA	Solid	8021B	1110
390-1502-32	BH-32 (15)	Total/NA	Solid	8021B	1110
90-1502-33	BH-33 (15)	Total/NA	Solid	8021B	1110
90-1502-34	BH-34 (15)	Total/NA	Solid	8021B	1110
90-1502-35	BH-35 (15)	Total/NA	Solid	8021B	1110
90-1502-36	BH-36 (15)	Total/NA	Solid	8021B	1110
90-1502-37	BH-37 (15)	Total/NA	Solid	8021B	1110
90-1502-38	BH-38 (15)	Total/NA	Solid	8021B	1110
390-1502-39	BH-39 (15)	Total/NA	Solid	8021B	1110
90-1502-40	BH-40 (15)	Total/NA	Solid	8021B	1110
90-1502-61	BH-61 (15)	Total/NA	Solid	8021B	1111
90-1502-62	BH-62 (15)	Total/NA	Solid	8021B	1111
90-1502-63	BH-63 (15)	Total/NA	Solid	8021B	1111
90-1502-64	BH-64 (15)	Total/NA	Solid	8021B	1111
90-1502-65	BH-65 (15)	Total/NA	Solid	8021B	1111
90-1502-66	BH-66 (15)	Total/NA	Solid	8021B	1111
90-1502-67	BH-67 (15)	Total/NA	Solid	8021B	1111
90-1502-68	BH-68 (15)	Total/NA	Solid	8021B	1111
90-1502-69	BH-69 (15)	Total/NA	Solid	8021B	1111
90-1502-70	BH-70 (15)	Total/NA	Solid	8021B	1111
390-1502-71	BH-71 (15)	Total/NA	Solid	8021B	1111

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Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

GC VOA (Continued)

Analysis Batch: 11221 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-72	BH-72 (15)	Total/NA	Solid	8021B	11112
890-1502-73	BH-73 (15)	Total/NA	Solid	8021B	11112
890-1502-74	BH-74 (15)	Total/NA	Solid	8021B	11112
890-1502-75	BH-75 (15)	Total/NA	Solid	8021B	11112
890-1502-76	BH-76 (15)	Total/NA	Solid	8021B	11112
890-1502-77	BH-77 (15)	Total/NA	Solid	8021B	11112
890-1502-78	BH-78 (15)	Total/NA	Solid	8021B	11112
890-1502-79	BH-79 (15)	Total/NA	Solid	8021B	11112
890-1502-80	BH-80 (15)	Total/NA	Solid	8021B	11112
MB 880-11109/5-A	Method Blank	Total/NA	Solid	8021B	11109
MB 880-11112/5-A	Method Blank	Total/NA	Solid	8021B	11112
LCS 880-11109/1-A	Lab Control Sample	Total/NA	Solid	8021B	11109
LCS 880-11112/1-A	Lab Control Sample	Total/NA	Solid	8021B	11112
LCSD 880-11109/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	11109
LCSD 880-11112/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	11112
890-1502-21 MS	BH-21 (6)	Total/NA	Solid	8021B	11109
890-1502-21 MSD	BH-21 (6)	Total/NA	Solid	8021B	11109
890-1502-61 MS	BH-61 (15)	Total/NA	Solid	8021B	11112
890-1502-61 MSD	BH-61 (15)	Total/NA	Solid	8021B	11112

Prep Batch: 11258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-11258/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 11259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-41	BH-41 (15)	Total/NA	Solid	8021B	1111
890-1502-42	BH-42 (15)	Total/NA	Solid	8021B	11111
890-1502-43	BH-43 (15)	Total/NA	Solid	8021B	11111
890-1502-44	BH-44 (15)	Total/NA	Solid	8021B	11111
890-1502-45	BH-45 (15)	Total/NA	Solid	8021B	11111
890-1502-46	BH-46 (15)	Total/NA	Solid	8021B	11111
890-1502-47	BH-47 (15)	Total/NA	Solid	8021B	11111
890-1502-48	BH-48 (15)	Total/NA	Solid	8021B	11111
890-1502-49	BH-49 (15)	Total/NA	Solid	8021B	11111
890-1502-50	BH-50 (15)	Total/NA	Solid	8021B	11111
890-1502-51	BH-51 (15)	Total/NA	Solid	8021B	11111
890-1502-52	BH-52 (15)	Total/NA	Solid	8021B	11111
890-1502-54	BH-54 (15)	Total/NA	Solid	8021B	11111
890-1502-55	BH-55 (15)	Total/NA	Solid	8021B	11111
890-1502-56	BH-56 (15)	Total/NA	Solid	8021B	11111
MB 880-11111/5-A	Method Blank	Total/NA	Solid	8021B	11111
MB 880-11258/5-A	Method Blank	Total/NA	Solid	8021B	11258
LCS 880-11111/1-A	Lab Control Sample	Total/NA	Solid	8021B	11111
LCSD 880-11111/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1111
890-1502-41 MS	BH-41 (15)	Total/NA	Solid	8021B	11111
890-1502-41 MSD	BH-41 (15)	Total/NA	Solid	8021B	1111

Analysis Batch: 11374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch					
890-1502-81	BH-81 (15)	Total/NA	Solid	8021B	11113					

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

GC VOA (Continued)

Analysis Batch: 11374 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bato
890-1502-82	BH-82 (15)	Total/NA	Solid	8021B	1111
390-1502-83	BH-83 (15)	Total/NA	Solid	8021B	1111
890-1502-84	BH-84 (15)	Total/NA	Solid	8021B	1111
890-1502-85	BH-85 (15)	Total/NA	Solid	8021B	1111
890-1502-86	BH-86 (15)	Total/NA	Solid	8021B	1111
890-1502-87	BH-87 (15)	Total/NA	Solid	8021B	1111
890-1502-88	BH-88 (15)	Total/NA	Solid	8021B	1111
890-1502-89	BH-89 (15)	Total/NA	Solid	8021B	1111
890-1502-90	BH90 (RS) (6)	Total/NA	Solid	8021B	1111
890-1502-91	BH-91 (RS) (6)	Total/NA	Solid	8021B	1111
890-1502-92	SW-1 (0-6)	Total/NA	Solid	8021B	1111
890-1502-93	SW-2 (0-6)	Total/NA	Solid	8021B	1111
890-1502-94	SW-3 (0-6)	Total/NA	Solid	8021B	1111
890-1502-95	SW-4 (0-6)	Total/NA	Solid	8021B	1111
890-1502-96	SW-5 (0-6)	Total/NA	Solid	8021B	1111
890-1502-97	SW-6 (0-6)	Total/NA	Solid	8021B	1111
890-1502-98	SW-7 (0-6)	Total/NA	Solid	8021B	1111
890-1502-99	SW-8 (0-6)	Total/NA	Solid	8021B	1111
890-1502-100	SW-9 (0-6)	Total/NA	Solid	8021B	1111
890-1502-101	SW-10 (0-6)	Total/NA	Solid	8021B	1111
890-1502-102	SW-11 (0-6)	Total/NA	Solid	8021B	111
890-1502-103	SW-12 (10)	Total/NA	Solid	8021B	1111
890-1502-104	SW-13 (15)	Total/NA	Solid	8021B	1111
890-1502-105	SW-14 (15)	Total/NA	Solid	8021B	1111
890-1502-106	SW-15 (15)	Total/NA	Solid	8021B	1111
890-1502-107	SW-16 (15)	Total/NA	Solid	8021B	1111
890-1502-108	SW-17 (15)	Total/NA	Solid	8021B	1111
890-1502-109	SW-18 (15)	Total/NA	Solid	8021B	1111
890-1502-110	SW-19 (15)	Total/NA	Solid	8021B	1111
890-1502-111	SW-20 (15)	Total/NA	Solid	8021B	1111
890-1502-112	SW-21 (15)	Total/NA	Solid	8021B	1111
890-1502-113	SW-22 (15)	Total/NA	Solid	8021B	1111
890-1502-114	SW-23 (15)	Total/NA	Solid	8021B	1111
890-1502-115	SW-24 (15)	Total/NA	Solid	8021B	1111
890-1502-116	SW-25 (15)	Total/NA	Solid	8021B	1111
890-1502-117	SW-26 (15)	Total/NA	Solid	8021B	1111
890-1502-118	SW-27 (15)	Total/NA	Solid	8021B	111
890-1502-119	SW-28 (15)	Total/NA	Solid	8021B	1111
MB 880-11113/5-A	Method Blank	Total/NA	Solid	8021B	1111
MB 880-11114/5-A	Method Blank	Total/NA	Solid	8021B	111
LCS 880-11113/1-A	Lab Control Sample	Total/NA	Solid	8021B	1111
LCS 880-11114/1-A	Lab Control Sample	Total/NA	Solid	8021B	1111
LCSD 880-11113/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1111
LCSD 880-11114/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1111
890-1502-81 MS	BH-81 (15)	Total/NA	Solid	8021B	111
890-1502-81 MSD	BH-81 (15)	Total/NA	Solid	8021B	1111
890-1502-101 MS	SW-10 (0-6)	Total/NA	Solid	8021B	1111
890-1502-101 MSD	SW-10 (0-6)	Total/NA	Solid	8021B	1111

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Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

GC VOA

Prep Batch: 11388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-53	BH-53 (15)	Total/NA	Solid	5035	
MB 880-11388/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11388/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-11388/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1502-53 MS	BH-53 (15)	Total/NA	Solid	5035	
890-1502-53 MSD	BH-53 (15)	Total/NA	Solid	5035	

Analysis Batch: 11420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-53	BH-53 (15)	Total/NA	Solid	8021B	11388
MB 880-11388/5-A	Method Blank	Total/NA	Solid	8021B	11388
LCS 880-11388/1-A	Lab Control Sample	Total/NA	Solid	8021B	11388
LCSD 880-11388/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	11388
890-1502-53 MS	BH-53 (15)	Total/NA	Solid	8021B	11388
890-1502-53 MSD	BH-53 (15)	Total/NA	Solid	8021B	11388

Prep Batch: 11445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-57	BH-57 (15)	Total/NA	Solid	5035	-
890-1502-58	BH-58 (15)	Total/NA	Solid	5035	
890-1502-59	BH-59 (15)	Total/NA	Solid	5035	
890-1502-60	BH-60 (15)	Total/NA	Solid	5035	
890-1502-120	SW-29 (15)	Total/NA	Solid	5035	
MB 880-11445/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11445/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-11445/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1520-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-1520-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 11449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-57	BH-57 (15)	Total/NA	Solid	8021B	11445
890-1502-58	BH-58 (15)	Total/NA	Solid	8021B	11445
890-1502-59	BH-59 (15)	Total/NA	Solid	8021B	11445
890-1502-60	BH-60 (15)	Total/NA	Solid	8021B	11445
890-1502-120	SW-29 (15)	Total/NA	Solid	8021B	11445
MB 880-11445/5-A	Method Blank	Total/NA	Solid	8021B	11445
MB 880-11449/8	Method Blank	Total/NA	Solid	8021B	
LCS 880-11445/1-A	Lab Control Sample	Total/NA	Solid	8021B	11445
LCS 880-11449/3	Lab Control Sample	Total/NA	Solid	8021B	
LCSD 880-11445/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	11445
LCSD 880-11449/4	Lab Control Sample Dup	Total/NA	Solid	8021B	
890-1520-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	11445
890-1520-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	11445

Analysis Batch: 11768

L	_ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
8	390-1502-1	BH-1 (6)	Total/NA	Solid	Total BTEX	
8	390-1502-2	BH-2 (6)	Total/NA	Solid	Total BTEX	
8	390-1502-3	BH-3 (6)	Total/NA	Solid	Total BTEX	
8	390-1502-4	BH-4 (6)	Total/NA	Solid	Total BTEX	

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

GC VOA (Continued)

Analysis Batch: 11768 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
390-1502-5	BH-5 (6)	Total/NA	Solid	Total BTEX	
390-1502-6	BH-6 (6)	Total/NA	Solid	Total BTEX	
390-1502-7	BH-7 (6)	Total/NA	Solid	Total BTEX	
390-1502-8	BH-8 (6)	Total/NA	Solid	Total BTEX	
390-1502-9	BH-9 (6)	Total/NA	Solid	Total BTEX	
390-1502-10	BH-10 (6)	Total/NA	Solid	Total BTEX	
890-1502-11	BH-11 (6)	Total/NA	Solid	Total BTEX	
890-1502-12	BH-12 (6)	Total/NA	Solid	Total BTEX	
890-1502-13	BH-13 (6)	Total/NA	Solid	Total BTEX	
890-1502-14	BH-14 (6)	Total/NA	Solid	Total BTEX	
890-1502-15	BH-15 (6)	Total/NA	Solid	Total BTEX	
890-1502-16	BH-16 (6)	Total/NA	Solid	Total BTEX	
890-1502-17	BH-17 (6)	Total/NA	Solid	Total BTEX	
890-1502-18	BH-18 (6)	Total/NA	Solid	Total BTEX	
890-1502-19	BH-19 (6)	Total/NA	Solid	Total BTEX	
890-1502-20	BH-20 (6)	Total/NA	Solid	Total BTEX	
890-1502-21	BH-21 (6)	Total/NA	Solid	Total BTEX	
890-1502-22	BH-22 (6)	Total/NA	Solid	Total BTEX	
890-1502-23	BH-23 (6)	Total/NA	Solid	Total BTEX	
890-1502-24	BH-24 (6)	Total/NA	Solid	Total BTEX	
			Solid		
890-1502-25	BH-25 (15)	Total/NA		Total BTEX	
890-1502-26	BH-26 (15)	Total/NA	Solid	Total BTEX	
890-1502-27	BH-27 (15)	Total/NA	Solid	Total BTEX	
890-1502-28	BH-28 (15)	Total/NA	Solid	Total BTEX	
890-1502-29	BH-29 (15)	Total/NA	Solid	Total BTEX	
890-1502-30	BH-30 (15)	Total/NA	Solid	Total BTEX	
890-1502-31	BH-31 (15)	Total/NA	Solid	Total BTEX	
890-1502-32	BH-32 (15)	Total/NA	Solid	Total BTEX	
890-1502-33	BH-33 (15)	Total/NA	Solid	Total BTEX	
890-1502-34	BH-34 (15)	Total/NA	Solid	Total BTEX	
390-1502-35	BH-35 (15)	Total/NA	Solid	Total BTEX	
890-1502-36	BH-36 (15)	Total/NA	Solid	Total BTEX	
890-1502-37	BH-37 (15)	Total/NA	Solid	Total BTEX	
890-1502-38	BH-38 (15)	Total/NA	Solid	Total BTEX	
890-1502-39	BH-39 (15)	Total/NA	Solid	Total BTEX	
890-1502-40	BH-40 (15)	Total/NA	Solid	Total BTEX	
890-1502-41	BH-41 (15)	Total/NA	Solid	Total BTEX	
890-1502-42	BH-42 (15)	Total/NA	Solid	Total BTEX	
890-1502-43	BH-43 (15)	Total/NA	Solid	Total BTEX	
890-1502-44	BH-44 (15)	Total/NA	Solid	Total BTEX	
890-1502-45	BH-45 (15)	Total/NA	Solid	Total BTEX	
890-1502-46	BH-46 (15)	Total/NA	Solid	Total BTEX	
890-1502-47	BH-47 (15)	Total/NA	Solid	Total BTEX	
890-1502-48	BH-48 (15)	Total/NA	Solid	Total BTEX	
890-1502-49	BH-49 (15)	Total/NA	Solid	Total BTEX	
890-1502-50	BH-50 (15)	Total/NA	Solid	Total BTEX	
890-1502-51	BH-51 (15)	Total/NA	Solid	Total BTEX	
890-1502-52	BH-52 (15)	Total/NA	Solid	Total BTEX	
890-1502-53	BH-53 (15)	Total/NA	Solid	Total BTEX	
890-1502-54	BH-54 (15)	Total/NA	Solid	Total BTEX	
890-1502-55	BH-55 (15)	Total/NA	Solid	Total BTEX	

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

GC VOA (Continued)

Analysis Batch: 11768 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
390-1502-56	BH-56 (15)	Total/NA	Solid	Total BTEX	
390-1502-57	BH-57 (15)	Total/NA	Solid	Total BTEX	
890-1502-58	BH-58 (15)	Total/NA	Solid	Total BTEX	
390-1502-59	BH-59 (15)	Total/NA	Solid	Total BTEX	
390-1502-60	BH-60 (15)	Total/NA	Solid	Total BTEX	
390-1502-61	BH-61 (15)	Total/NA	Solid	Total BTEX	
390-1502-62	BH-62 (15)	Total/NA	Solid	Total BTEX	
390-1502-63	BH-63 (15)	Total/NA	Solid	Total BTEX	
390-1502-64	BH-64 (15)	Total/NA	Solid	Total BTEX	
390-1502-65	BH-65 (15)	Total/NA	Solid	Total BTEX	
390-1502-66	BH-66 (15)	Total/NA	Solid	Total BTEX	
390-1502-67	BH-67 (15)	Total/NA	Solid	Total BTEX	
390-1502-68	BH-68 (15)	Total/NA	Solid	Total BTEX	
390-1502-69	BH-69 (15)	Total/NA	Solid	Total BTEX	
390-1502-70	BH-70 (15)	Total/NA	Solid	Total BTEX	
390-1502-71	BH-71 (15)	Total/NA	Solid	Total BTEX	
390-1502-71 390-1502-72	BH-72 (15)	Total/NA	Solid	Total BTEX	
390-1502-72 390-1502-73	BH-73 (15)	Total/NA	Solid	Total BTEX	
				Total BTEX	
890-1502-74 890-1502-75	BH-74 (15)	Total/NA	Solid		
	BH-75 (15)	Total/NA	Solid	Total BTEX	
390-1502-76	BH-76 (15)	Total/NA	Solid	Total BTEX	
390-1502-77	BH-77 (15)	Total/NA	Solid	Total BTEX	
390-1502-78	BH-78 (15)	Total/NA	Solid	Total BTEX	
390-1502-79	BH-79 (15)	Total/NA	Solid	Total BTEX	
390-1502-80	BH-80 (15)	Total/NA	Solid	Total BTEX	
390-1502-81	BH-81 (15)	Total/NA	Solid	Total BTEX	
390-1502-82	BH-82 (15)	Total/NA	Solid	Total BTEX	
390-1502-83	BH-83 (15)	Total/NA	Solid	Total BTEX	
390-1502-84	BH-84 (15)	Total/NA	Solid	Total BTEX	
390-1502-85	BH-85 (15)	Total/NA	Solid	Total BTEX	
90-1502-86	BH-86 (15)	Total/NA	Solid	Total BTEX	
390-1502-87	BH-87 (15)	Total/NA	Solid	Total BTEX	
390-1502-88	BH-88 (15)	Total/NA	Solid	Total BTEX	
390-1502-89	BH-89 (15)	Total/NA	Solid	Total BTEX	
390-1502-90	BH90 (RS) (6)	Total/NA	Solid	Total BTEX	
390-1502-91	BH-91 (RS) (6)	Total/NA	Solid	Total BTEX	
390-1502-92	SW-1 (0-6)	Total/NA	Solid	Total BTEX	
390-1502-93	SW-2 (0-6)	Total/NA	Solid	Total BTEX	
390-1502-94	SW-3 (0-6)	Total/NA	Solid	Total BTEX	
390-1502-95	SW-4 (0-6)	Total/NA	Solid	Total BTEX	
390-1502-96	SW-5 (0-6)	Total/NA	Solid	Total BTEX	
390-1502-97	SW-6 (0-6)	Total/NA	Solid	Total BTEX	
390-1502-98	SW-7 (0-6)	Total/NA	Solid	Total BTEX	
390-1502-99	SW-8 (0-6)	Total/NA	Solid	Total BTEX	
390-1502-100	SW-9 (0-6)	Total/NA	Solid	Total BTEX	
890-1502-101	SW-10 (0-6)	Total/NA	Solid	Total BTEX	
890-1502-102	SW-11 (0-6)	Total/NA	Solid	Total BTEX	
390-1502-103	SW-12 (10)	Total/NA	Solid	Total BTEX	
390-1502-104	SW-13 (15)	Total/NA	Solid	Total BTEX	
390-1502-105	SW-14 (15)	Total/NA	Solid	Total BTEX	
890-1502-106	SW-15 (15)	Total/NA	Solid	Total BTEX	

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Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

GC VOA (Continued)

Analysis Batch: 11768 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-107	SW-16 (15)	Total/NA	Solid	Total BTEX	
890-1502-108	SW-17 (15)	Total/NA	Solid	Total BTEX	
890-1502-109	SW-18 (15)	Total/NA	Solid	Total BTEX	
890-1502-110	SW-19 (15)	Total/NA	Solid	Total BTEX	
890-1502-111	SW-20 (15)	Total/NA	Solid	Total BTEX	
890-1502-112	SW-21 (15)	Total/NA	Solid	Total BTEX	
890-1502-113	SW-22 (15)	Total/NA	Solid	Total BTEX	
890-1502-114	SW-23 (15)	Total/NA	Solid	Total BTEX	
890-1502-115	SW-24 (15)	Total/NA	Solid	Total BTEX	
890-1502-116	SW-25 (15)	Total/NA	Solid	Total BTEX	
890-1502-117	SW-26 (15)	Total/NA	Solid	Total BTEX	
890-1502-118	SW-27 (15)	Total/NA	Solid	Total BTEX	
890-1502-119	SW-28 (15)	Total/NA	Solid	Total BTEX	
890-1502-120	SW-29 (15)	Total/NA	Solid	Total BTEX	
890-1502-121	SW-30 (RS) (6)	Total/NA	Solid	Total BTEX	
890-1502-122	SW-31 (RS) (4)	Total/NA	Solid	Total BTEX	
890-1502-123	SW-32 (RS) (6)	Total/NA	Solid	Total BTEX	
890-1502-124	SW-33 (RS) (8)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-1502-1	BH-1 (6)	Total/NA	Solid	8015NM Prep	
890-1502-2	BH-2 (6)	Total/NA	Solid	8015NM Prep	
890-1502-3	BH-3 (6)	Total/NA	Solid	8015NM Prep	
890-1502-4	BH-4 (6)	Total/NA	Solid	8015NM Prep	
890-1502-5	BH-5 (6)	Total/NA	Solid	8015NM Prep	
890-1502-6	BH-6 (6)	Total/NA	Solid	8015NM Prep	
890-1502-7	BH-7 (6)	Total/NA	Solid	8015NM Prep	
390-1502-8	BH-8 (6)	Total/NA	Solid	8015NM Prep	
390-1502-9	BH-9 (6)	Total/NA	Solid	8015NM Prep	
390-1502-10	BH-10 (6)	Total/NA	Solid	8015NM Prep	
390-1502-11	BH-11 (6)	Total/NA	Solid	8015NM Prep	
390-1502-12	BH-12 (6)	Total/NA	Solid	8015NM Prep	
890-1502-13	BH-13 (6)	Total/NA	Solid	8015NM Prep	
390-1502-14	BH-14 (6)	Total/NA	Solid	8015NM Prep	
390-1502-15	BH-15 (6)	Total/NA	Solid	8015NM Prep	
390-1502-16	BH-16 (6)	Total/NA	Solid	8015NM Prep	
390-1502-17	BH-17 (6)	Total/NA	Solid	8015NM Prep	
390-1502-18	BH-18 (6)	Total/NA	Solid	8015NM Prep	
390-1502-19	BH-19 (6)	Total/NA	Solid	8015NM Prep	
390-1502-20	BH-20 (6)	Total/NA	Solid	8015NM Prep	
MB 880-11223/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
_CS 880-11223/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
CSD 880-11223/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
390-1502-1 MS	BH-1 (6)	Total/NA	Solid	8015NM Prep	
890-1502-1 MSD	BH-1 (6)	Total/NA	Solid	8015NM Prep	

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

GC Semi VOA

Prep Batch: 11255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-1502-21	BH-21 (6)	Total/NA	Solid	8015NM Prep	
890-1502-22	BH-22 (6)	Total/NA	Solid	8015NM Prep	
890-1502-23	BH-23 (6)	Total/NA	Solid	8015NM Prep	
890-1502-24	BH-24 (6)	Total/NA	Solid	8015NM Prep	
890-1502-25	BH-25 (15)	Total/NA	Solid	8015NM Prep	
890-1502-26	BH-26 (15)	Total/NA	Solid	8015NM Prep	
890-1502-27	BH-27 (15)	Total/NA	Solid	8015NM Prep	
890-1502-28	BH-28 (15)	Total/NA	Solid	8015NM Prep	
890-1502-29	BH-29 (15)	Total/NA	Solid	8015NM Prep	
890-1502-30	BH-30 (15)	Total/NA	Solid	8015NM Prep	
890-1502-31	BH-31 (15)	Total/NA	Solid	8015NM Prep	
890-1502-32	BH-32 (15)	Total/NA	Solid	8015NM Prep	
890-1502-33	BH-33 (15)	Total/NA	Solid	8015NM Prep	
890-1502-34	BH-34 (15)	Total/NA	Solid	8015NM Prep	
890-1502-35	BH-35 (15)	Total/NA	Solid	8015NM Prep	
890-1502-36	BH-36 (15)	Total/NA	Solid	8015NM Prep	
890-1502-37	BH-37 (15)	Total/NA	Solid	8015NM Prep	
890-1502-38	BH-38 (15)	Total/NA	Solid	8015NM Prep	
890-1502-39	BH-39 (15)	Total/NA	Solid	8015NM Prep	
890-1502-40	BH-40 (15)	Total/NA	Solid	8015NM Prep	
MB 880-11255/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-11255/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-11255/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1502-21 MS	BH-21 (6)	Total/NA	Solid	8015NM Prep	
890-1502-21 MSD	BH-21 (6)	Total/NA	Solid	8015NM Prep	

Prep Batch: 11273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-1502-41	BH-41 (15)	Total/NA	Solid	8015NM Prep	
890-1502-42	BH-42 (15)	Total/NA	Solid	8015NM Prep	
890-1502-43	BH-43 (15)	Total/NA	Solid	8015NM Prep	
890-1502-44	BH-44 (15)	Total/NA	Solid	8015NM Prep	
890-1502-45	BH-45 (15)	Total/NA	Solid	8015NM Prep	
890-1502-46	BH-46 (15)	Total/NA	Solid	8015NM Prep	
890-1502-47	BH-47 (15)	Total/NA	Solid	8015NM Prep	
890-1502-48	BH-48 (15)	Total/NA	Solid	8015NM Prep	
390-1502-49	BH-49 (15)	Total/NA	Solid	8015NM Prep	
390-1502-50	BH-50 (15)	Total/NA	Solid	8015NM Prep	
390-1502-51	BH-51 (15)	Total/NA	Solid	8015NM Prep	
390-1502-52	BH-52 (15)	Total/NA	Solid	8015NM Prep	
390-1502-53	BH-53 (15)	Total/NA	Solid	8015NM Prep	
390-1502-54	BH-54 (15)	Total/NA	Solid	8015NM Prep	
390-1502-55	BH-55 (15)	Total/NA	Solid	8015NM Prep	
890-1502-56	BH-56 (15)	Total/NA	Solid	8015NM Prep	
890-1502-57	BH-57 (15)	Total/NA	Solid	8015NM Prep	
890-1502-58	BH-58 (15)	Total/NA	Solid	8015NM Prep	
890-1502-59	BH-59 (15)	Total/NA	Solid	8015NM Prep	
390-1502-60	BH-60 (15)	Total/NA	Solid	8015NM Prep	
MB 880-11273/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-11273/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-11273/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

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Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

GC Semi VOA (Continued)

Prep Batch: 11273 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-41 MS	BH-41 (15)	Total/NA	Solid	8015NM Prep	
890-1502-41 MSD	BH-41 (15)	Total/NA	Solid	8015NM Prep	

Analysis Batch: 11317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-1	BH-1 (6)	Total/NA	Solid	8015B NM	11223
890-1502-2	BH-2 (6)	Total/NA	Solid	8015B NM	11223
890-1502-3	BH-3 (6)	Total/NA	Solid	8015B NM	11223
890-1502-4	BH-4 (6)	Total/NA	Solid	8015B NM	11223
890-1502-5	BH-5 (6)	Total/NA	Solid	8015B NM	11223
890-1502-6	BH-6 (6)	Total/NA	Solid	8015B NM	11223
890-1502-7	BH-7 (6)	Total/NA	Solid	8015B NM	11223
890-1502-8	BH-8 (6)	Total/NA	Solid	8015B NM	11223
890-1502-9	BH-9 (6)	Total/NA	Solid	8015B NM	11223
890-1502-10	BH-10 (6)	Total/NA	Solid	8015B NM	11223
890-1502-11	BH-11 (6)	Total/NA	Solid	8015B NM	11223
890-1502-12	BH-12 (6)	Total/NA	Solid	8015B NM	11223
890-1502-13	BH-13 (6)	Total/NA	Solid	8015B NM	11223
890-1502-14	BH-14 (6)	Total/NA	Solid	8015B NM	11223
890-1502-15	BH-15 (6)	Total/NA	Solid	8015B NM	11223
890-1502-16	BH-16 (6)	Total/NA	Solid	8015B NM	11223
890-1502-17	BH-17 (6)	Total/NA	Solid	8015B NM	11223
890-1502-18	BH-18 (6)	Total/NA	Solid	8015B NM	11223
890-1502-19	BH-19 (6)	Total/NA	Solid	8015B NM	11223
890-1502-20	BH-20 (6)	Total/NA	Solid	8015B NM	11223
MB 880-11223/1-A	Method Blank	Total/NA	Solid	8015B NM	11223
LCS 880-11223/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	11223
LCSD 880-11223/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	11223
890-1502-1 MS	BH-1 (6)	Total/NA	Solid	8015B NM	11223
890-1502-1 MSD	BH-1 (6)	Total/NA	Solid	8015B NM	11223

Analysis Batch: 11321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-1502-21	BH-21 (6)	Total/NA	Solid	8015B NM	1125
890-1502-22	BH-22 (6)	Total/NA	Solid	8015B NM	1125
890-1502-23	BH-23 (6)	Total/NA	Solid	8015B NM	1125
890-1502-24	BH-24 (6)	Total/NA	Solid	8015B NM	1125
890-1502-25	BH-25 (15)	Total/NA	Solid	8015B NM	1125
890-1502-26	BH-26 (15)	Total/NA	Solid	8015B NM	1125
890-1502-27	BH-27 (15)	Total/NA	Solid	8015B NM	1125
890-1502-28	BH-28 (15)	Total/NA	Solid	8015B NM	1125
890-1502-29	BH-29 (15)	Total/NA	Solid	8015B NM	1125
890-1502-30	BH-30 (15)	Total/NA	Solid	8015B NM	1125
890-1502-31	BH-31 (15)	Total/NA	Solid	8015B NM	1125
890-1502-32	BH-32 (15)	Total/NA	Solid	8015B NM	1125
890-1502-33	BH-33 (15)	Total/NA	Solid	8015B NM	1125
890-1502-34	BH-34 (15)	Total/NA	Solid	8015B NM	1125
890-1502-35	BH-35 (15)	Total/NA	Solid	8015B NM	1125
890-1502-36	BH-36 (15)	Total/NA	Solid	8015B NM	1125
890-1502-37	BH-37 (15)	Total/NA	Solid	8015B NM	1125
890-1502-38	BH-38 (15)	Total/NA	Solid	8015B NM	1125

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

GC Semi VOA (Continued)

Analysis Batch: 11321 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-39	BH-39 (15)	Total/NA	Solid	8015B NM	11255
890-1502-40	BH-40 (15)	Total/NA	Solid	8015B NM	11255
MB 880-11255/1-A	Method Blank	Total/NA	Solid	8015B NM	11255
LCS 880-11255/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	11255
LCSD 880-11255/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	11255
890-1502-21 MS	BH-21 (6)	Total/NA	Solid	8015B NM	11255
890-1502-21 MSD	BH-21 (6)	Total/NA	Solid	8015B NM	11255

Analysis Batch: 11323

_ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
390-1502-41	BH-41 (15)	Total/NA	Solid	8015B NM	1127
390-1502-42	BH-42 (15)	Total/NA	Solid	8015B NM	1127
390-1502-43	BH-43 (15)	Total/NA	Solid	8015B NM	1127
390-1502-44	BH-44 (15)	Total/NA	Solid	8015B NM	1127
390-1502-45	BH-45 (15)	Total/NA	Solid	8015B NM	1127
390-1502-46	BH-46 (15)	Total/NA	Solid	8015B NM	1127
390-1502-47	BH-47 (15)	Total/NA	Solid	8015B NM	1127
390-1502-48	BH-48 (15)	Total/NA	Solid	8015B NM	1127
90-1502-49	BH-49 (15)	Total/NA	Solid	8015B NM	1127
90-1502-50	BH-50 (15)	Total/NA	Solid	8015B NM	1127
90-1502-51	BH-51 (15)	Total/NA	Solid	8015B NM	1127
90-1502-52	BH-52 (15)	Total/NA	Solid	8015B NM	1127
390-1502-53	BH-53 (15)	Total/NA	Solid	8015B NM	1127
90-1502-54	BH-54 (15)	Total/NA	Solid	8015B NM	1127
90-1502-55	BH-55 (15)	Total/NA	Solid	8015B NM	1127
90-1502-56	BH-56 (15)	Total/NA	Solid	8015B NM	1127
90-1502-57	BH-57 (15)	Total/NA	Solid	8015B NM	1127
90-1502-58	BH-58 (15)	Total/NA	Solid	8015B NM	1127
90-1502-59	BH-59 (15)	Total/NA	Solid	8015B NM	1127
90-1502-60	BH-60 (15)	Total/NA	Solid	8015B NM	1127
90-1502-61	BH-61 (15)	Total/NA	Solid	8015B NM	1135
90-1502-62	BH-62 (15)	Total/NA	Solid	8015B NM	1135
90-1502-63	BH-63 (15)	Total/NA	Solid	8015B NM	1135
90-1502-64	BH-64 (15)	Total/NA	Solid	8015B NM	1135
90-1502-65	BH-65 (15)	Total/NA	Solid	8015B NM	1135
90-1502-66	BH-66 (15)	Total/NA	Solid	8015B NM	1135
90-1502-67	BH-67 (15)	Total/NA	Solid	8015B NM	1135
90-1502-68	BH-68 (15)	Total/NA	Solid	8015B NM	1135
90-1502-69	BH-69 (15)	Total/NA	Solid	8015B NM	1135
90-1502-70	BH-70 (15)	Total/NA	Solid	8015B NM	1135
90-1502-71	BH-71 (15)	Total/NA	Solid	8015B NM	1135
90-1502-72	BH-72 (15)	Total/NA	Solid	8015B NM	1135
90-1502-73	BH-73 (15)	Total/NA	Solid	8015B NM	1135
90-1502-74	BH-74 (15)	Total/NA	Solid	8015B NM	1135
90-1502-75	BH-75 (15)	Total/NA	Solid	8015B NM	1135
90-1502-76	BH-76 (15)	Total/NA	Solid	8015B NM	1135
90-1502-77	BH-77 (15)	Total/NA	Solid	8015B NM	1135
90-1502-78	BH-78 (15)	Total/NA	Solid	8015B NM	1135
390-1502-79	BH-79 (15)	Total/NA	Solid	8015B NM	1135
390-1502-80	BH-80 (15)	Total/NA	Solid	8015B NM	1135
MB 880-11273/1-A	Method Blank	Total/NA	Solid	8015B NM	1127

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

GC Semi VOA (Continued)

Analysis Batch: 11323 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-11356/1-A	Method Blank	Total/NA	Solid	8015B NM	11356
LCS 880-11273/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	11273
LCS 880-11356/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	11356
LCSD 880-11273/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	11273
LCSD 880-11356/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	11356
890-1502-41 MS	BH-41 (15)	Total/NA	Solid	8015B NM	11273
890-1502-41 MSD	BH-41 (15)	Total/NA	Solid	8015B NM	11273
890-1502-61 MS	BH-61 (15)	Total/NA	Solid	8015B NM	11356
890-1502-61 MSD	BH-61 (15)	Total/NA	Solid	8015B NM	11356

Prep Batch: 11356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-61	BH-61 (15)	Total/NA	Solid	8015NM Prep	
890-1502-62	BH-62 (15)	Total/NA	Solid	8015NM Prep	
890-1502-63	BH-63 (15)	Total/NA	Solid	8015NM Prep	
890-1502-64	BH-64 (15)	Total/NA	Solid	8015NM Prep	
890-1502-65	BH-65 (15)	Total/NA	Solid	8015NM Prep	
890-1502-66	BH-66 (15)	Total/NA	Solid	8015NM Prep	
890-1502-67	BH-67 (15)	Total/NA	Solid	8015NM Prep	
890-1502-68	BH-68 (15)	Total/NA	Solid	8015NM Prep	
890-1502-69	BH-69 (15)	Total/NA	Solid	8015NM Prep	
890-1502-70	BH-70 (15)	Total/NA	Solid	8015NM Prep	
890-1502-71	BH-71 (15)	Total/NA	Solid	8015NM Prep	
890-1502-72	BH-72 (15)	Total/NA	Solid	8015NM Prep	
890-1502-73	BH-73 (15)	Total/NA	Solid	8015NM Prep	
890-1502-74	BH-74 (15)	Total/NA	Solid	8015NM Prep	
890-1502-75	BH-75 (15)	Total/NA	Solid	8015NM Prep	
890-1502-76	BH-76 (15)	Total/NA	Solid	8015NM Prep	
890-1502-77	BH-77 (15)	Total/NA	Solid	8015NM Prep	
890-1502-78	BH-78 (15)	Total/NA	Solid	8015NM Prep	
890-1502-79	BH-79 (15)	Total/NA	Solid	8015NM Prep	
890-1502-80	BH-80 (15)	Total/NA	Solid	8015NM Prep	
MB 880-11356/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-11356/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-11356/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1502-61 MS	BH-61 (15)	Total/NA	Solid	8015NM Prep	
890-1502-61 MSD	BH-61 (15)	Total/NA	Solid	8015NM Prep	

Prep Batch: 11364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-81	BH-81 (15)	Total/NA	Solid	8015NM Prep	
890-1502-82	BH-82 (15)	Total/NA	Solid	8015NM Prep	
890-1502-83	BH-83 (15)	Total/NA	Solid	8015NM Prep	
890-1502-84	BH-84 (15)	Total/NA	Solid	8015NM Prep	
890-1502-85	BH-85 (15)	Total/NA	Solid	8015NM Prep	
890-1502-86	BH-86 (15)	Total/NA	Solid	8015NM Prep	
890-1502-87	BH-87 (15)	Total/NA	Solid	8015NM Prep	
890-1502-88	BH-88 (15)	Total/NA	Solid	8015NM Prep	
890-1502-89	BH-89 (15)	Total/NA	Solid	8015NM Prep	
890-1502-90	BH90 (RS) (6)	Total/NA	Solid	8015NM Prep	
890-1502-91	BH-91 (RS) (6)	Total/NA	Solid	8015NM Prep	

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Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

GC Semi VOA (Continued)

Prep Batch: 11364 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-92	SW-1 (0-6)	Total/NA	Solid	8015NM Prep	
890-1502-93	SW-2 (0-6)	Total/NA	Solid	8015NM Prep	
890-1502-94	SW-3 (0-6)	Total/NA	Solid	8015NM Prep	
890-1502-95	SW-4 (0-6)	Total/NA	Solid	8015NM Prep	
890-1502-96	SW-5 (0-6)	Total/NA	Solid	8015NM Prep	
890-1502-97	SW-6 (0-6)	Total/NA	Solid	8015NM Prep	
890-1502-98	SW-7 (0-6)	Total/NA	Solid	8015NM Prep	
890-1502-99	SW-8 (0-6)	Total/NA	Solid	8015NM Prep	
890-1502-100	SW-9 (0-6)	Total/NA	Solid	8015NM Prep	
MB 880-11364/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-11364/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-11364/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1502-81 MS	BH-81 (15)	Total/NA	Solid	8015NM Prep	
890-1502-81 MSD	BH-81 (15)	Total/NA	Solid	8015NM Prep	

Prep Batch: 11375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-1502-101	SW-10 (0-6)	Total/NA	Solid	8015NM Prep	
890-1502-102	SW-11 (0-6)	Total/NA	Solid	8015NM Prep	
890-1502-103	SW-12 (10)	Total/NA	Solid	8015NM Prep	
890-1502-104	SW-13 (15)	Total/NA	Solid	8015NM Prep	
890-1502-105	SW-14 (15)	Total/NA	Solid	8015NM Prep	
890-1502-106	SW-15 (15)	Total/NA	Solid	8015NM Prep	
890-1502-107	SW-16 (15)	Total/NA	Solid	8015NM Prep	
890-1502-108	SW-17 (15)	Total/NA	Solid	8015NM Prep	
890-1502-109	SW-18 (15)	Total/NA	Solid	8015NM Prep	
890-1502-110	SW-19 (15)	Total/NA	Solid	8015NM Prep	
890-1502-111	SW-20 (15)	Total/NA	Solid	8015NM Prep	
890-1502-112	SW-21 (15)	Total/NA	Solid	8015NM Prep	
890-1502-113	SW-22 (15)	Total/NA	Solid	8015NM Prep	
890-1502-114	SW-23 (15)	Total/NA	Solid	8015NM Prep	
890-1502-115	SW-24 (15)	Total/NA	Solid	8015NM Prep	
890-1502-116	SW-25 (15)	Total/NA	Solid	8015NM Prep	
890-1502-117	SW-26 (15)	Total/NA	Solid	8015NM Prep	
890-1502-118	SW-27 (15)	Total/NA	Solid	8015NM Prep	
890-1502-119	SW-28 (15)	Total/NA	Solid	8015NM Prep	
890-1502-120	SW-29 (15)	Total/NA	Solid	8015NM Prep	
MB 880-11375/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-11375/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-11375/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1502-101 MS	SW-10 (0-6)	Total/NA	Solid	8015NM Prep	
890-1502-101 MSD	SW-10 (0-6)	Total/NA	Solid	8015NM Prep	

Prep Batch: 11376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-121	SW-30 (RS) (6)	Total/NA	Solid	8015NM Prep	
890-1502-122	SW-31 (RS) (4)	Total/NA	Solid	8015NM Prep	
890-1502-123	SW-32 (RS) (6)	Total/NA	Solid	8015NM Prep	
890-1502-124	SW-33 (RS) (8)	Total/NA	Solid	8015NM Prep	
MB 880-11376/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-11376/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

GC Semi VOA (Continued)

Prep Batch: 11376 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-11376/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1502-121 MS	SW-30 (RS) (6)	Total/NA	Solid	8015NM Prep	
890-1502-121 MSD	SW-30 (RS) (6)	Total/NA	Solid	8015NM Prep	

Analysis Batch: 11414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-121	SW-30 (RS) (6)	Total/NA	Solid	8015B NM	11376
890-1502-122	SW-31 (RS) (4)	Total/NA	Solid	8015B NM	11376
890-1502-123	SW-32 (RS) (6)	Total/NA	Solid	8015B NM	11376
890-1502-124	SW-33 (RS) (8)	Total/NA	Solid	8015B NM	11376
MB 880-11376/1-A	Method Blank	Total/NA	Solid	8015B NM	11376
LCS 880-11376/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	11376
LCSD 880-11376/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	11376
890-1502-121 MS	SW-30 (RS) (6)	Total/NA	Solid	8015B NM	11376
890-1502-121 MSD	SW-30 (RS) (6)	Total/NA	Solid	8015B NM	11376

Analysis Batch: 11416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-81	BH-81 (15)	Total/NA	Solid	8015B NM	11364
890-1502-82	BH-82 (15)	Total/NA	Solid	8015B NM	11364
890-1502-83	BH-83 (15)	Total/NA	Solid	8015B NM	11364
890-1502-84	BH-84 (15)	Total/NA	Solid	8015B NM	11364
890-1502-85	BH-85 (15)	Total/NA	Solid	8015B NM	11364
890-1502-86	BH-86 (15)	Total/NA	Solid	8015B NM	11364
890-1502-87	BH-87 (15)	Total/NA	Solid	8015B NM	11364
890-1502-88	BH-88 (15)	Total/NA	Solid	8015B NM	11364
890-1502-89	BH-89 (15)	Total/NA	Solid	8015B NM	11364
890-1502-90	BH90 (RS) (6)	Total/NA	Solid	8015B NM	11364
890-1502-91	BH-91 (RS) (6)	Total/NA	Solid	8015B NM	11364
890-1502-92	SW-1 (0-6)	Total/NA	Solid	8015B NM	11364
890-1502-93	SW-2 (0-6)	Total/NA	Solid	8015B NM	11364
890-1502-94	SW-3 (0-6)	Total/NA	Solid	8015B NM	11364
890-1502-95	SW-4 (0-6)	Total/NA	Solid	8015B NM	11364
890-1502-96	SW-5 (0-6)	Total/NA	Solid	8015B NM	11364
890-1502-97	SW-6 (0-6)	Total/NA	Solid	8015B NM	11364
890-1502-98	SW-7 (0-6)	Total/NA	Solid	8015B NM	11364
890-1502-99	SW-8 (0-6)	Total/NA	Solid	8015B NM	11364
890-1502-100	SW-9 (0-6)	Total/NA	Solid	8015B NM	11364
MB 880-11364/1-A	Method Blank	Total/NA	Solid	8015B NM	11364
LCS 880-11364/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	11364
LCSD 880-11364/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	11364
890-1502-81 MS	BH-81 (15)	Total/NA	Solid	8015B NM	11364
890-1502-81 MSD	BH-81 (15)	Total/NA	Solid	8015B NM	11364

Analysis Batch: 11418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-101	SW-10 (0-6)	Total/NA	Solid	8015B NM	11375
890-1502-102	SW-11 (0-6)	Total/NA	Solid	8015B NM	11375
890-1502-103	SW-12 (10)	Total/NA	Solid	8015B NM	11375
890-1502-104	SW-13 (15)	Total/NA	Solid	8015B NM	11375
890-1502-105	SW-14 (15)	Total/NA	Solid	8015B NM	11375

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

GC Semi VOA (Continued)

Analysis Batch: 11418 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-106	SW-15 (15)	Total/NA	Solid	8015B NM	11375
890-1502-107	SW-16 (15)	Total/NA	Solid	8015B NM	11375
890-1502-108	SW-17 (15)	Total/NA	Solid	8015B NM	11375
890-1502-109	SW-18 (15)	Total/NA	Solid	8015B NM	11375
890-1502-110	SW-19 (15)	Total/NA	Solid	8015B NM	11375
890-1502-111	SW-20 (15)	Total/NA	Solid	8015B NM	11375
890-1502-112	SW-21 (15)	Total/NA	Solid	8015B NM	11375
890-1502-113	SW-22 (15)	Total/NA	Solid	8015B NM	11375
890-1502-114	SW-23 (15)	Total/NA	Solid	8015B NM	11375
890-1502-115	SW-24 (15)	Total/NA	Solid	8015B NM	11375
890-1502-116	SW-25 (15)	Total/NA	Solid	8015B NM	11375
890-1502-117	SW-26 (15)	Total/NA	Solid	8015B NM	11375
890-1502-118	SW-27 (15)	Total/NA	Solid	8015B NM	11375
890-1502-119	SW-28 (15)	Total/NA	Solid	8015B NM	11375
890-1502-120	SW-29 (15)	Total/NA	Solid	8015B NM	11375
MB 880-11375/1-A	Method Blank	Total/NA	Solid	8015B NM	11375
LCS 880-11375/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	11375
LCSD 880-11375/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	11375
890-1502-101 MS	SW-10 (0-6)	Total/NA	Solid	8015B NM	11375
890-1502-101 MSD	SW-10 (0-6)	Total/NA	Solid	8015B NM	11375

Analysis Batch: 11598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bato
890-1502-1	BH-1 (6)	Total/NA	Solid	8015 NM	
890-1502-2	BH-2 (6)	Total/NA	Solid	8015 NM	
890-1502-3	BH-3 (6)	Total/NA	Solid	8015 NM	
890-1502-4	BH-4 (6)	Total/NA	Solid	8015 NM	
390-1502-5	BH-5 (6)	Total/NA	Solid	8015 NM	
390-1502-6	BH-6 (6)	Total/NA	Solid	8015 NM	
390-1502-7	BH-7 (6)	Total/NA	Solid	8015 NM	
390-1502-8	BH-8 (6)	Total/NA	Solid	8015 NM	
390-1502-9	BH-9 (6)	Total/NA	Solid	8015 NM	
390-1502-10	BH-10 (6)	Total/NA	Solid	8015 NM	
390-1502-11	BH-11 (6)	Total/NA	Solid	8015 NM	
390-1502-12	BH-12 (6)	Total/NA	Solid	8015 NM	
390-1502-13	BH-13 (6)	Total/NA	Solid	8015 NM	
390-1502-14	BH-14 (6)	Total/NA	Solid	8015 NM	
390-1502-15	BH-15 (6)	Total/NA	Solid	8015 NM	
390-1502-16	BH-16 (6)	Total/NA	Solid	8015 NM	
90-1502-17	BH-17 (6)	Total/NA	Solid	8015 NM	
90-1502-18	BH-18 (6)	Total/NA	Solid	8015 NM	
390-1502-19	BH-19 (6)	Total/NA	Solid	8015 NM	
390-1502-20	BH-20 (6)	Total/NA	Solid	8015 NM	
390-1502-21	BH-21 (6)	Total/NA	Solid	8015 NM	
390-1502-22	BH-22 (6)	Total/NA	Solid	8015 NM	
390-1502-23	BH-23 (6)	Total/NA	Solid	8015 NM	
390-1502-24	BH-24 (6)	Total/NA	Solid	8015 NM	
90-1502-25	BH-25 (15)	Total/NA	Solid	8015 NM	
90-1502-26	BH-26 (15)	Total/NA	Solid	8015 NM	
390-1502-27	BH-27 (15)	Total/NA	Solid	8015 NM	
890-1502-28	BH-28 (15)	Total/NA	Solid	8015 NM	

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

GC Semi VOA (Continued)

Analysis Batch: 11598 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix Matrix	Method	Prep Batcl
890-1502-29	BH-29 (15)	Total/NA	Solid	8015 NM	
390-1502-30	BH-30 (15)	Total/NA	Solid	8015 NM	
390-1502-31	BH-31 (15)	Total/NA	Solid	8015 NM	
390-1502-32	BH-32 (15)	Total/NA	Solid	8015 NM	
390-1502-33	BH-33 (15)	Total/NA	Solid	8015 NM	
390-1502-34	BH-34 (15)	Total/NA	Solid	8015 NM	
390-1502-35	BH-35 (15)	Total/NA	Solid	8015 NM	
390-1502-36	BH-36 (15)	Total/NA	Solid	8015 NM	
390-1502-37	BH-37 (15)	Total/NA	Solid	8015 NM	
390-1502-38	BH-38 (15)	Total/NA	Solid	8015 NM	
390-1502-39	BH-39 (15)	Total/NA	Solid	8015 NM	
390-1502-40	BH-40 (15)	Total/NA	Solid	8015 NM	
390-1502-41	BH-41 (15)	Total/NA	Solid	8015 NM	
390-1502-42	BH-42 (15)	Total/NA	Solid	8015 NM	
390-1502-43	BH-43 (15)	Total/NA	Solid	8015 NM	
390-1502-44	BH-44 (15)	Total/NA	Solid	8015 NM	
390-1502-45	BH-45 (15)	Total/NA	Solid	8015 NM	
390-1502-46	BH-46 (15)	Total/NA	Solid	8015 NM	
390-1502-47	BH-47 (15)	Total/NA	Solid	8015 NM	
390-1502-48	BH-48 (15)	Total/NA	Solid	8015 NM	
390-1502-49	BH-49 (15)	Total/NA	Solid	8015 NM	
390-1502-50	BH-50 (15)	Total/NA	Solid	8015 NM	
390-1502-51	BH-51 (15)	Total/NA	Solid	8015 NM	
390-1502-51 390-1502-52		Total/NA	Solid	8015 NM	
390-1502-52 390-1502-53	BH-52 (15) BH-53 (15)	Total/NA	Solid	8015 NM	
390-1502-53 390-1502-54		Total/NA	Solid	8015 NM	
	BH-54 (15)		Solid		
390-1502-55	BH-55 (15)	Total/NA		8015 NM	
390-1502-56	BH-56 (15)	Total/NA	Solid	8015 NM	
390-1502-57	BH-57 (15)	Total/NA	Solid	8015 NM	
390-1502-58	BH-58 (15)	Total/NA	Solid	8015 NM	
390-1502-59	BH-59 (15)	Total/NA	Solid	8015 NM	
390-1502-60	BH-60 (15)	Total/NA	Solid	8015 NM	
390-1502-61	BH-61 (15)	Total/NA	Solid	8015 NM	
390-1502-62	BH-62 (15)	Total/NA	Solid	8015 NM	
390-1502-63	BH-63 (15)	Total/NA	Solid	8015 NM	
390-1502-64	BH-64 (15)	Total/NA	Solid	8015 NM	
390-1502-65	BH-65 (15)	Total/NA	Solid	8015 NM	
390-1502-66	BH-66 (15)	Total/NA	Solid	8015 NM	
390-1502-67	BH-67 (15)	Total/NA	Solid	8015 NM	
390-1502-68	BH-68 (15)	Total/NA	Solid	8015 NM	
390-1502-69	BH-69 (15)	Total/NA	Solid	8015 NM	
390-1502-70	BH-70 (15)	Total/NA	Solid	8015 NM	
390-1502-71	BH-71 (15)	Total/NA	Solid	8015 NM	
390-1502-72	BH-72 (15)	Total/NA	Solid	8015 NM	
390-1502-73	BH-73 (15)	Total/NA	Solid	8015 NM	
390-1502-74	BH-74 (15)	Total/NA	Solid	8015 NM	
390-1502-75	BH-75 (15)	Total/NA	Solid	8015 NM	
390-1502-76	BH-76 (15)	Total/NA	Solid	8015 NM	
390-1502-77	BH-77 (15)	Total/NA	Solid	8015 NM	
390-1502-78	BH-78 (15)	Total/NA	Solid	8015 NM	
890-1502-79	BH-79 (15)	Total/NA	Solid	8015 NM	

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

GC Semi VOA (Continued)

Analysis Batch: 11598 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-1502-80	BH-80 (15)	Total/NA	Solid	8015 NM	
890-1502-81	BH-81 (15)	Total/NA	Solid	8015 NM	
890-1502-82	BH-82 (15)	Total/NA	Solid	8015 NM	
890-1502-83	BH-83 (15)	Total/NA	Solid	8015 NM	
890-1502-84	BH-84 (15)	Total/NA	Solid	8015 NM	
890-1502-85	BH-85 (15)	Total/NA	Solid	8015 NM	
890-1502-86	BH-86 (15)	Total/NA	Solid	8015 NM	
890-1502-87	BH-87 (15)	Total/NA	Solid	8015 NM	
890-1502-88	BH-88 (15)	Total/NA	Solid	8015 NM	
890-1502-89	BH-89 (15)	Total/NA	Solid	8015 NM	
890-1502-90	BH90 (RS) (6)	Total/NA	Solid	8015 NM	
890-1502-91	BH-91 (RS) (6)	Total/NA	Solid	8015 NM	
890-1502-92	SW-1 (0-6)	Total/NA	Solid	8015 NM	
890-1502-93	SW-2 (0-6)	Total/NA	Solid	8015 NM	
890-1502-94	SW-3 (0-6)	Total/NA	Solid	8015 NM	
890-1502-95	SW-4 (0-6)	Total/NA	Solid	8015 NM	
890-1502-96	SW-5 (0-6)	Total/NA	Solid	8015 NM	
890-1502-97	SW-6 (0-6)	Total/NA	Solid	8015 NM	
890-1502-98	SW-7 (0-6)	Total/NA	Solid	8015 NM	
890-1502-99	SW-8 (0-6)	Total/NA	Solid	8015 NM	
890-1502-100	SW-9 (0-6)	Total/NA	Solid	8015 NM	
890-1502-101	SW-10 (0-6)	Total/NA	Solid	8015 NM	
890-1502-102	SW-11 (0-6)	Total/NA	Solid	8015 NM	
890-1502-103	SW-12 (10)	Total/NA	Solid	8015 NM	
890-1502-104	SW-13 (15)	Total/NA	Solid	8015 NM	
890-1502-105	SW-14 (15)	Total/NA	Solid	8015 NM	
890-1502-106	SW-15 (15)	Total/NA	Solid	8015 NM	
890-1502-107	SW-16 (15)	Total/NA	Solid	8015 NM	
890-1502-108	SW-17 (15)	Total/NA	Solid	8015 NM	
890-1502-109	SW-18 (15)	Total/NA	Solid	8015 NM	
890-1502-110	SW-19 (15)	Total/NA	Solid	8015 NM	
890-1502-111	SW-20 (15)	Total/NA	Solid	8015 NM	
890-1502-112	SW-21 (15)	Total/NA	Solid	8015 NM	
890-1502-113	SW-22 (15)	Total/NA	Solid	8015 NM	
890-1502-114	SW-23 (15)	Total/NA	Solid	8015 NM	
390-1502-115	SW-24 (15)	Total/NA	Solid	8015 NM	
890-1502-116	SW-25 (15)	Total/NA	Solid	8015 NM	
890-1502-117	SW-26 (15)	Total/NA	Solid	8015 NM	
890-1502-118	SW-27 (15)	Total/NA	Solid	8015 NM	
890-1502-119	SW-28 (15)	Total/NA	Solid	8015 NM	
390-1502-120	SW-29 (15)	Total/NA	Solid	8015 NM	
890-1502-121	SW-30 (RS) (6)	Total/NA	Solid	8015 NM	
890-1502-122	SW-30 (RS) (4)	Total/NA	Solid	8015 NM	
890-1502-123	SW-32 (RS) (6)	Total/NA	Solid	8015 NM	
890-1502-124	SW-32 (RS) (8)	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 11227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-1	BH-1 (6)	Soluble	Solid	DI Leach	

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

HPLC/IC (Continued)

Leach Batch: 11227 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-2	BH-2 (6)	Soluble	Solid	DI Leach	
890-1502-3	BH-3 (6)	Soluble	Solid	DI Leach	
MB 880-11227/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-11227/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-11227/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1499-A-1-H MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1499-A-1-I MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 11233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-92	SW-1 (0-6)	Soluble	Solid	DI Leach	_
890-1502-93	SW-2 (0-6)	Soluble	Solid	DI Leach	
890-1502-94	SW-3 (0-6)	Soluble	Solid	DI Leach	
890-1502-95	SW-4 (0-6)	Soluble	Solid	DI Leach	
890-1502-96	SW-5 (0-6)	Soluble	Solid	DI Leach	
890-1502-97	SW-6 (0-6)	Soluble	Solid	DI Leach	
890-1502-98	SW-7 (0-6)	Soluble	Solid	DI Leach	
890-1502-99	SW-8 (0-6)	Soluble	Solid	DI Leach	
890-1502-100	SW-9 (0-6)	Soluble	Solid	DI Leach	
890-1502-101	SW-10 (0-6)	Soluble	Solid	DI Leach	
MB 880-11233/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-11233/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-11233/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1502-92 MS	SW-1 (0-6)	Soluble	Solid	DI Leach	
890-1502-92 MSD	SW-1 (0-6)	Soluble	Solid	DI Leach	

Leach Batch: 11236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-1502-4	BH-4 (6)	Soluble	Solid	DI Leach	
890-1502-102	SW-11 (0-6)	Soluble	Solid	DI Leach	
890-1502-103	SW-12 (10)	Soluble	Solid	DI Leach	
890-1502-104	SW-13 (15)	Soluble	Solid	DI Leach	
890-1502-105	SW-14 (15)	Soluble	Solid	DI Leach	
890-1502-106	SW-15 (15)	Soluble	Solid	DI Leach	
890-1502-107	SW-16 (15)	Soluble	Solid	DI Leach	
890-1502-108	SW-17 (15)	Soluble	Solid	DI Leach	
890-1502-109	SW-18 (15)	Soluble	Solid	DI Leach	
890-1502-110	SW-19 (15)	Soluble	Solid	DI Leach	
890-1502-111	SW-20 (15)	Soluble	Solid	DI Leach	
890-1502-112	SW-21 (15)	Soluble	Solid	DI Leach	
890-1502-113	SW-22 (15)	Soluble	Solid	DI Leach	
890-1502-114	SW-23 (15)	Soluble	Solid	DI Leach	
890-1502-115	SW-24 (15)	Soluble	Solid	DI Leach	
890-1502-116	SW-25 (15)	Soluble	Solid	DI Leach	
890-1502-117	SW-26 (15)	Soluble	Solid	DI Leach	
890-1502-118	SW-27 (15)	Soluble	Solid	DI Leach	
890-1502-119	SW-28 (15)	Soluble	Solid	DI Leach	
890-1502-120	SW-29 (15)	Soluble	Solid	DI Leach	
MB 880-11236/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-11236/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-11236/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

HPLC/IC (Continued)

Leach Batch: 11236 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-4 MS	BH-4 (6)	Soluble	Solid	DI Leach	
890-1502-4 MSD	BH-4 (6)	Soluble	Solid	DI Leach	
890-1502-111 MS	SW-20 (15)	Soluble	Solid	DI Leach	
890-1502-111 MSD	SW-20 (15)	Soluble	Solid	DI Leach	

Leach Batch: 11237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-5	BH-5 (6)	Soluble	Solid	DI Leach	
890-1502-6	BH-6 (6)	Soluble	Solid	DI Leach	
890-1502-7	BH-7 (6)	Soluble	Solid	DI Leach	
890-1502-8	BH-8 (6)	Soluble	Solid	DI Leach	
890-1502-9	BH-9 (6)	Soluble	Solid	DI Leach	
890-1502-10	BH-10 (6)	Soluble	Solid	DI Leach	
890-1502-11	BH-11 (6)	Soluble	Solid	DI Leach	
890-1502-12	BH-12 (6)	Soluble	Solid	DI Leach	
890-1502-13	BH-13 (6)	Soluble	Solid	DI Leach	
890-1502-14	BH-14 (6)	Soluble	Solid	DI Leach	
890-1502-15	BH-15 (6)	Soluble	Solid	DI Leach	
890-1502-16	BH-16 (6)	Soluble	Solid	DI Leach	
890-1502-17	BH-17 (6)	Soluble	Solid	DI Leach	
890-1502-18	BH-18 (6)	Soluble	Solid	DI Leach	
890-1502-19	BH-19 (6)	Soluble	Solid	DI Leach	
890-1502-20	BH-20 (6)	Soluble	Solid	DI Leach	
890-1502-21	BH-21 (6)	Soluble	Solid	DI Leach	
890-1502-22	BH-22 (6)	Soluble	Solid	DI Leach	
890-1502-23	BH-23 (6)	Soluble	Solid	DI Leach	
890-1502-24	BH-24 (6)	Soluble	Solid	DI Leach	
MB 880-11237/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-11237/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-11237/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1502-5 MS	BH-5 (6)	Soluble	Solid	DI Leach	
890-1502-5 MSD	BH-5 (6)	Soluble	Solid	DI Leach	
890-1502-15 MS	BH-15 (6)	Soluble	Solid	DI Leach	
890-1502-15 MSD	BH-15 (6)	Soluble	Solid	DI Leach	

Leach Batch: 11238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-25	BH-25 (15)	Soluble	Solid	DI Leach	_
890-1502-26	BH-26 (15)	Soluble	Solid	DI Leach	
890-1502-27	BH-27 (15)	Soluble	Solid	DI Leach	
890-1502-28	BH-28 (15)	Soluble	Solid	DI Leach	
890-1502-29	BH-29 (15)	Soluble	Solid	DI Leach	
890-1502-30	BH-30 (15)	Soluble	Solid	DI Leach	
890-1502-31	BH-31 (15)	Soluble	Solid	DI Leach	
890-1502-32	BH-32 (15)	Soluble	Solid	DI Leach	
890-1502-33	BH-33 (15)	Soluble	Solid	DI Leach	
890-1502-34	BH-34 (15)	Soluble	Solid	DI Leach	
890-1502-35	BH-35 (15)	Soluble	Solid	DI Leach	
890-1502-36	BH-36 (15)	Soluble	Solid	DI Leach	
890-1502-37	BH-37 (15)	Soluble	Solid	DI Leach	
890-1502-38	BH-38 (15)	Soluble	Solid	DI Leach	

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

HPLC/IC (Continued)

Leach Batch: 11238 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-39	BH-39 (15)	Soluble	Solid	DI Leach	
890-1502-40	BH-40 (15)	Soluble	Solid	DI Leach	
890-1502-41	BH-41 (15)	Soluble	Solid	DI Leach	
890-1502-42	BH-42 (15)	Soluble	Solid	DI Leach	
890-1502-43	BH-43 (15)	Soluble	Solid	DI Leach	
890-1502-44	BH-44 (15)	Soluble	Solid	DI Leach	
MB 880-11238/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-11238/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-11238/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1502-25 MS	BH-25 (15)	Soluble	Solid	DI Leach	
890-1502-25 MSD	BH-25 (15)	Soluble	Solid	DI Leach	
890-1502-35 MS	BH-35 (15)	Soluble	Solid	DI Leach	
890-1502-35 MSD	BH-35 (15)	Soluble	Solid	DI Leach	

Leach Batch: 11240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-45	BH-45 (15)	Soluble	Solid	DI Leach	
890-1502-46	BH-46 (15)	Soluble	Solid	DI Leach	
890-1502-47	BH-47 (15)	Soluble	Solid	DI Leach	
890-1502-48	BH-48 (15)	Soluble	Solid	DI Leach	
890-1502-49	BH-49 (15)	Soluble	Solid	DI Leach	
890-1502-50	BH-50 (15)	Soluble	Solid	DI Leach	
890-1502-51	BH-51 (15)	Soluble	Solid	DI Leach	
890-1502-52	BH-52 (15)	Soluble	Solid	DI Leach	
890-1502-53	BH-53 (15)	Soluble	Solid	DI Leach	
890-1502-54	BH-54 (15)	Soluble	Solid	DI Leach	
890-1502-55	BH-55 (15)	Soluble	Solid	DI Leach	
890-1502-56	BH-56 (15)	Soluble	Solid	DI Leach	
890-1502-57	BH-57 (15)	Soluble	Solid	DI Leach	
890-1502-58	BH-58 (15)	Soluble	Solid	DI Leach	
890-1502-59	BH-59 (15)	Soluble	Solid	DI Leach	
890-1502-60	BH-60 (15)	Soluble	Solid	DI Leach	
890-1502-61	BH-61 (15)	Soluble	Solid	DI Leach	
890-1502-62	BH-62 (15)	Soluble	Solid	DI Leach	
890-1502-63	BH-63 (15)	Soluble	Solid	DI Leach	
890-1502-64	BH-64 (15)	Soluble	Solid	DI Leach	
MB 880-11240/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-11240/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-11240/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1502-45 MS	BH-45 (15)	Soluble	Solid	DI Leach	
890-1502-45 MSD	BH-45 (15)	Soluble	Solid	DI Leach	
890-1502-55 MS	BH-55 (15)	Soluble	Solid	DI Leach	
890-1502-55 MSD	BH-55 (15)	Soluble	Solid	DI Leach	

Leach Batch: 11242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-65	BH-65 (15)	Soluble	Solid	DI Leach	
890-1502-66	BH-66 (15)	Soluble	Solid	DI Leach	
890-1502-67	BH-67 (15)	Soluble	Solid	DI Leach	
890-1502-68	BH-68 (15)	Soluble	Solid	DI Leach	
890-1502-69	BH-69 (15)	Soluble	Solid	DI Leach	

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Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

HPLC/IC (Continued)

Leach Batch: 11242 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-70	BH-70 (15)	Soluble	Solid	DI Leach	_
890-1502-71	BH-71 (15)	Soluble	Solid	DI Leach	
890-1502-72	BH-72 (15)	Soluble	Solid	DI Leach	
890-1502-73	BH-73 (15)	Soluble	Solid	DI Leach	
890-1502-74	BH-74 (15)	Soluble	Solid	DI Leach	
890-1502-75	BH-75 (15)	Soluble	Solid	DI Leach	
890-1502-76	BH-76 (15)	Soluble	Solid	DI Leach	
890-1502-77	BH-77 (15)	Soluble	Solid	DI Leach	
890-1502-78	BH-78 (15)	Soluble	Solid	DI Leach	
890-1502-79	BH-79 (15)	Soluble	Solid	DI Leach	
890-1502-80	BH-80 (15)	Soluble	Solid	DI Leach	
890-1502-81	BH-81 (15)	Soluble	Solid	DI Leach	
890-1502-82	BH-82 (15)	Soluble	Solid	DI Leach	
890-1502-83	BH-83 (15)	Soluble	Solid	DI Leach	
890-1502-84	BH-84 (15)	Soluble	Solid	DI Leach	
MB 880-11242/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-11242/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-11242/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1502-65 MS	BH-65 (15)	Soluble	Solid	DI Leach	
890-1502-65 MSD	BH-65 (15)	Soluble	Solid	DI Leach	
890-1502-75 MS	BH-75 (15)	Soluble	Solid	DI Leach	
890-1502-75 MSD	BH-75 (15)	Soluble	Solid	DI Leach	

Leach Batch: 11243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-1502-85	BH-85 (15)	Soluble	Solid	DI Leach	
890-1502-86	BH-86 (15)	Soluble	Solid	DI Leach	
890-1502-87	BH-87 (15)	Soluble	Solid	DI Leach	
890-1502-88	BH-88 (15)	Soluble	Solid	DI Leach	
890-1502-89	BH-89 (15)	Soluble	Solid	DI Leach	
890-1502-90	BH90 (RS) (6)	Soluble	Solid	DI Leach	
890-1502-91	BH-91 (RS) (6)	Soluble	Solid	DI Leach	
890-1502-121	SW-30 (RS) (6)	Soluble	Solid	DI Leach	
890-1502-122	SW-31 (RS) (4)	Soluble	Solid	DI Leach	
890-1502-123	SW-32 (RS) (6)	Soluble	Solid	DI Leach	
890-1502-124	SW-33 (RS) (8)	Soluble	Solid	DI Leach	
MB 880-11243/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-11243/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-11243/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1502-85 MS	BH-85 (15)	Soluble	Solid	DI Leach	
890-1502-85 MSD	BH-85 (15)	Soluble	Solid	DI Leach	
890-1502-124 MS	SW-33 (RS) (8)	Soluble	Solid	DI Leach	
890-1502-124 MSD	SW-33 (RS) (8)	Soluble	Solid	DI Leach	

Analysis Batch: 11379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-1	BH-1 (6)	Soluble	Solid	300.0	11227
890-1502-2	BH-2 (6)	Soluble	Solid	300.0	11227
890-1502-3	BH-3 (6)	Soluble	Solid	300.0	11227
MB 880-11227/1-A	Method Blank	Soluble	Solid	300.0	11227
LCS 880-11227/2-A	Lab Control Sample	Soluble	Solid	300.0	11227

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Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

HPLC/IC (Continued)

Analysis Batch: 11379 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-11227/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11227
890-1499-A-1-H MS	Matrix Spike	Soluble	Solid	300.0	11227
890-1499-A-1-I MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	11227

Analysis Batch: 11381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-92	SW-1 (0-6)	Soluble	Solid	300.0	11233
890-1502-93	SW-2 (0-6)	Soluble	Solid	300.0	11233
890-1502-94	SW-3 (0-6)	Soluble	Solid	300.0	11233
890-1502-95	SW-4 (0-6)	Soluble	Solid	300.0	11233
890-1502-96	SW-5 (0-6)	Soluble	Solid	300.0	11233
890-1502-97	SW-6 (0-6)	Soluble	Solid	300.0	11233
890-1502-98	SW-7 (0-6)	Soluble	Solid	300.0	11233
890-1502-99	SW-8 (0-6)	Soluble	Solid	300.0	11233
890-1502-100	SW-9 (0-6)	Soluble	Solid	300.0	11233
890-1502-101	SW-10 (0-6)	Soluble	Solid	300.0	11233
MB 880-11233/1-A	Method Blank	Soluble	Solid	300.0	11233
LCS 880-11233/2-A	Lab Control Sample	Soluble	Solid	300.0	11233
LCSD 880-11233/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11233
890-1502-92 MS	SW-1 (0-6)	Soluble	Solid	300.0	11233
890-1502-92 MSD	SW-1 (0-6)	Soluble	Solid	300.0	11233

Analysis Batch: 11452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-1502-4	BH-4 (6)	Soluble	Solid	300.0	11230
890-1502-102	SW-11 (0-6)	Soluble	Solid	300.0	11230
890-1502-103	SW-12 (10)	Soluble	Solid	300.0	11230
890-1502-104	SW-13 (15)	Soluble	Solid	300.0	11230
890-1502-105	SW-14 (15)	Soluble	Solid	300.0	11236
890-1502-106	SW-15 (15)	Soluble	Solid	300.0	11230
890-1502-107	SW-16 (15)	Soluble	Solid	300.0	11230
890-1502-108	SW-17 (15)	Soluble	Solid	300.0	11236
890-1502-109	SW-18 (15)	Soluble	Solid	300.0	11236
890-1502-110	SW-19 (15)	Soluble	Solid	300.0	11236
890-1502-111	SW-20 (15)	Soluble	Solid	300.0	11236
890-1502-112	SW-21 (15)	Soluble	Solid	300.0	11236
890-1502-113	SW-22 (15)	Soluble	Solid	300.0	11230
890-1502-114	SW-23 (15)	Soluble	Solid	300.0	11236
890-1502-115	SW-24 (15)	Soluble	Solid	300.0	11236
890-1502-116	SW-25 (15)	Soluble	Solid	300.0	11236
890-1502-117	SW-26 (15)	Soluble	Solid	300.0	11236
890-1502-118	SW-27 (15)	Soluble	Solid	300.0	11230
890-1502-119	SW-28 (15)	Soluble	Solid	300.0	11236
890-1502-120	SW-29 (15)	Soluble	Solid	300.0	11230
MB 880-11236/1-A	Method Blank	Soluble	Solid	300.0	11230
LCS 880-11236/2-A	Lab Control Sample	Soluble	Solid	300.0	11236
LCSD 880-11236/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11236
890-1502-4 MS	BH-4 (6)	Soluble	Solid	300.0	11236
890-1502-4 MSD	BH-4 (6)	Soluble	Solid	300.0	11236
890-1502-111 MS	SW-20 (15)	Soluble	Solid	300.0	11236
890-1502-111 MSD	SW-20 (15)	Soluble	Solid	300.0	11236

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

HPLC/IC

Analysis Batch: 11453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-5	BH-5 (6)	Soluble	Solid	300.0	11237
890-1502-6	BH-6 (6)	Soluble	Solid	300.0	11237
890-1502-7	BH-7 (6)	Soluble	Solid	300.0	11237
890-1502-8	BH-8 (6)	Soluble	Solid	300.0	11237
890-1502-9	BH-9 (6)	Soluble	Solid	300.0	11237
890-1502-10	BH-10 (6)	Soluble	Solid	300.0	11237
890-1502-11	BH-11 (6)	Soluble	Solid	300.0	11237
890-1502-12	BH-12 (6)	Soluble	Solid	300.0	11237
890-1502-13	BH-13 (6)	Soluble	Solid	300.0	11237
890-1502-14	BH-14 (6)	Soluble	Solid	300.0	11237
890-1502-15	BH-15 (6)	Soluble	Solid	300.0	11237
890-1502-16	BH-16 (6)	Soluble	Solid	300.0	11237
890-1502-17	BH-17 (6)	Soluble	Solid	300.0	11237
890-1502-18	BH-18 (6)	Soluble	Solid	300.0	11237
890-1502-19	BH-19 (6)	Soluble	Solid	300.0	11237
890-1502-20	BH-20 (6)	Soluble	Solid	300.0	11237
890-1502-21	BH-21 (6)	Soluble	Solid	300.0	11237
890-1502-22	BH-22 (6)	Soluble	Solid	300.0	11237
890-1502-23	BH-23 (6)	Soluble	Solid	300.0	11237
890-1502-24	BH-24 (6)	Soluble	Solid	300.0	11237
MB 880-11237/1-A	Method Blank	Soluble	Solid	300.0	11237
LCS 880-11237/2-A	Lab Control Sample	Soluble	Solid	300.0	11237
LCSD 880-11237/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11237
890-1502-5 MS	BH-5 (6)	Soluble	Solid	300.0	11237
890-1502-5 MSD	BH-5 (6)	Soluble	Solid	300.0	11237
890-1502-15 MS	BH-15 (6)	Soluble	Solid	300.0	11237
890-1502-15 MSD	BH-15 (6)	Soluble	Solid	300.0	11237

Analysis Batch: 11454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-25	BH-25 (15)	Soluble	Solid	300.0	11238
890-1502-26	BH-26 (15)	Soluble	Solid	300.0	11238
890-1502-27	BH-27 (15)	Soluble	Solid	300.0	11238
890-1502-28	BH-28 (15)	Soluble	Solid	300.0	11238
890-1502-29	BH-29 (15)	Soluble	Solid	300.0	11238
890-1502-30	BH-30 (15)	Soluble	Solid	300.0	11238
890-1502-31	BH-31 (15)	Soluble	Solid	300.0	11238
890-1502-32	BH-32 (15)	Soluble	Solid	300.0	11238
890-1502-33	BH-33 (15)	Soluble	Solid	300.0	11238
890-1502-34	BH-34 (15)	Soluble	Solid	300.0	11238
890-1502-35	BH-35 (15)	Soluble	Solid	300.0	11238
890-1502-36	BH-36 (15)	Soluble	Solid	300.0	11238
890-1502-37	BH-37 (15)	Soluble	Solid	300.0	11238
890-1502-38	BH-38 (15)	Soluble	Solid	300.0	11238
890-1502-39	BH-39 (15)	Soluble	Solid	300.0	11238
890-1502-40	BH-40 (15)	Soluble	Solid	300.0	11238
890-1502-41	BH-41 (15)	Soluble	Solid	300.0	11238
890-1502-42	BH-42 (15)	Soluble	Solid	300.0	11238
890-1502-43	BH-43 (15)	Soluble	Solid	300.0	11238
890-1502-44	BH-44 (15)	Soluble	Solid	300.0	11238
MB 880-11238/1-A	Method Blank	Soluble	Solid	300.0	11238

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Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

HPLC/IC (Continued)

Analysis Batch: 11454 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-11238/2-A	Lab Control Sample	Soluble	Solid	300.0	11238
LCSD 880-11238/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11238
890-1502-25 MS	BH-25 (15)	Soluble	Solid	300.0	11238
890-1502-25 MSD	BH-25 (15)	Soluble	Solid	300.0	11238
890-1502-35 MS	BH-35 (15)	Soluble	Solid	300.0	11238
890-1502-35 MSD	BH-35 (15)	Soluble	Solid	300.0	11238

Analysis Batch: 11455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-45	BH-45 (15)	Soluble	Solid	300.0	11240
890-1502-46	BH-46 (15)	Soluble	Solid	300.0	11240
890-1502-47	BH-47 (15)	Soluble	Solid	300.0	11240
890-1502-48	BH-48 (15)	Soluble	Solid	300.0	11240
890-1502-49	BH-49 (15)	Soluble	Solid	300.0	11240
890-1502-50	BH-50 (15)	Soluble	Solid	300.0	11240
890-1502-51	BH-51 (15)	Soluble	Solid	300.0	11240
890-1502-52	BH-52 (15)	Soluble	Solid	300.0	11240
890-1502-53	BH-53 (15)	Soluble	Solid	300.0	11240
890-1502-54	BH-54 (15)	Soluble	Solid	300.0	11240
890-1502-55	BH-55 (15)	Soluble	Solid	300.0	11240
890-1502-56	BH-56 (15)	Soluble	Solid	300.0	11240
890-1502-57	BH-57 (15)	Soluble	Solid	300.0	11240
890-1502-58	BH-58 (15)	Soluble	Solid	300.0	11240
890-1502-59	BH-59 (15)	Soluble	Solid	300.0	11240
890-1502-60	BH-60 (15)	Soluble	Solid	300.0	11240
890-1502-61	BH-61 (15)	Soluble	Solid	300.0	11240
890-1502-62	BH-62 (15)	Soluble	Solid	300.0	11240
890-1502-63	BH-63 (15)	Soluble	Solid	300.0	11240
890-1502-64	BH-64 (15)	Soluble	Solid	300.0	11240
MB 880-11240/1-A	Method Blank	Soluble	Solid	300.0	11240
LCS 880-11240/2-A	Lab Control Sample	Soluble	Solid	300.0	11240
LCSD 880-11240/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11240
890-1502-45 MS	BH-45 (15)	Soluble	Solid	300.0	11240
890-1502-45 MSD	BH-45 (15)	Soluble	Solid	300.0	11240
890-1502-55 MS	BH-55 (15)	Soluble	Solid	300.0	11240
890-1502-55 MSD	BH-55 (15)	Soluble	Solid	300.0	11240

Analysis Batch: 11456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-1502-65	BH-65 (15)	Soluble	Solid	300.0	11242
890-1502-66	BH-66 (15)	Soluble	Solid	300.0	11242
890-1502-67	BH-67 (15)	Soluble	Solid	300.0	11242
890-1502-68	BH-68 (15)	Soluble	Solid	300.0	11242
890-1502-69	BH-69 (15)	Soluble	Solid	300.0	11242
890-1502-70	BH-70 (15)	Soluble	Solid	300.0	11242
890-1502-71	BH-71 (15)	Soluble	Solid	300.0	11242
890-1502-72	BH-72 (15)	Soluble	Solid	300.0	11242
890-1502-73	BH-73 (15)	Soluble	Solid	300.0	11242
890-1502-74	BH-74 (15)	Soluble	Solid	300.0	11242
890-1502-75	BH-75 (15)	Soluble	Solid	300.0	11242
890-1502-76	BH-76 (15)	Soluble	Solid	300.0	11242

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

HPLC/IC (Continued)

Analysis Batch: 11456 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-77	BH-77 (15)	Soluble	Solid	300.0	11242
890-1502-78	BH-78 (15)	Soluble	Solid	300.0	11242
890-1502-79	BH-79 (15)	Soluble	Solid	300.0	11242
890-1502-80	BH-80 (15)	Soluble	Solid	300.0	11242
890-1502-81	BH-81 (15)	Soluble	Solid	300.0	11242
890-1502-82	BH-82 (15)	Soluble	Solid	300.0	11242
890-1502-83	BH-83 (15)	Soluble	Solid	300.0	11242
890-1502-84	BH-84 (15)	Soluble	Solid	300.0	11242
MB 880-11242/1-A	Method Blank	Soluble	Solid	300.0	11242
LCS 880-11242/2-A	Lab Control Sample	Soluble	Solid	300.0	11242
LCSD 880-11242/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11242
890-1502-65 MS	BH-65 (15)	Soluble	Solid	300.0	11242
890-1502-65 MSD	BH-65 (15)	Soluble	Solid	300.0	11242
890-1502-75 MS	BH-75 (15)	Soluble	Solid	300.0	11242
890-1502-75 MSD	BH-75 (15)	Soluble	Solid	300.0	11242

Analysis Batch: 11705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1502-85	BH-85 (15)	Soluble	Solid	300.0	11243
890-1502-86	BH-86 (15)	Soluble	Solid	300.0	11243
890-1502-87	BH-87 (15)	Soluble	Solid	300.0	11243
890-1502-88	BH-88 (15)	Soluble	Solid	300.0	11243
890-1502-89	BH-89 (15)	Soluble	Solid	300.0	11243
890-1502-90	BH90 (RS) (6)	Soluble	Solid	300.0	11243
890-1502-91	BH-91 (RS) (6)	Soluble	Solid	300.0	11243
890-1502-121	SW-30 (RS) (6)	Soluble	Solid	300.0	11243
890-1502-122	SW-31 (RS) (4)	Soluble	Solid	300.0	11243
890-1502-123	SW-32 (RS) (6)	Soluble	Solid	300.0	11243
890-1502-124	SW-33 (RS) (8)	Soluble	Solid	300.0	11243
MB 880-11243/1-A	Method Blank	Soluble	Solid	300.0	11243
LCS 880-11243/2-A	Lab Control Sample	Soluble	Solid	300.0	11243
LCSD 880-11243/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11243
890-1502-85 MS	BH-85 (15)	Soluble	Solid	300.0	11243
890-1502-85 MSD	BH-85 (15)	Soluble	Solid	300.0	11243
890-1502-124 MS	SW-33 (RS) (8)	Soluble	Solid	300.0	11243
890-1502-124 MSD	SW-33 (RS) (8)	Soluble	Solid	300.0	11243

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Client Sample ID: BH-1 (6)

Lab Sample ID: 890-1502-1 Date Collected: 10/27/21 00:00

Matrix: Solid

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 00:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11223	11/02/21 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11317	11/03/21 11:42	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11227	11/02/21 11:52	CH	XEN MID
Soluble	Analysis	300.0		5			11379	11/06/21 06:01	CH	XEN MID

Client Sample ID: BH-2 (6) Lab Sample ID: 890-1502-2

Date Collected: 10/27/21 00:00 Matrix: Solid

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 01:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11223	11/02/21 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11317	11/03/21 12:43	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	11227	11/02/21 11:52	CH	XEN MID
Soluble	Analysis	300.0		1			11379	11/06/21 06:09	CH	XEN MID

Client Sample ID: BH-3 (6) Lab Sample ID: 890-1502-3 Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 01:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11223	11/02/21 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11317	11/03/21 13:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	11227	11/02/21 11:52	CH	XEN MID
Soluble	Analysis	300.0		1			11379	11/06/21 06:17	CH	XEN MID

Client Sample ID: BH-4 (6) Lab Sample ID: 890-1502-4

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 01:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID

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Matrix: Solid

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Client Sample ID: BH-4 (6)

Lab Sample ID: 890-1502-4 Date Collected: 10/27/21 00:00

Matrix: Solid

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11223	11/02/21 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11317	11/03/21 13:23	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	11236	11/02/21 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			11452	11/08/21 09:05	CH	XEN MID

Client Sample ID: BH-5 (6) Lab Sample ID: 890-1502-5

Date Collected: 10/27/21 00:00 **Matrix: Solid** Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 02:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11223	11/02/21 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11317	11/03/21 13:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	11237	11/02/21 12:31	CH	XEN MID
Soluble	Analysis	300.0		1			11453	11/07/21 05:30	CH	XEN MID

Client Sample ID: BH-6 (6) Lab Sample ID: 890-1502-6

Date Collected: 10/27/21 00:00 **Matrix: Solid** Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 02:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	11223	11/02/21 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11317	11/03/21 14:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11237	11/02/21 12:31	CH	XEN MID
Soluble	Analysis	300.0		1			11453	11/07/21 05:52	CH	XEN MID

Client Sample ID: BH-7 (6) Lab Sample ID: 890-1502-7

Date Collected: 10/27/21 00:00 **Matrix: Solid** Date Received: 10/29/21 12:45

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 02:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.05 g	10 mL	11223 11317	11/02/21 11:44 11/03/21 14:23	DM AJ	XEN MID

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Date Received: 10/29/21 12:45

Job ID: 890-1502-1 SDG: 212C-MD-02230

Client Sample ID: BH-7 (6) Lab Sample ID: 890-1502-7 Date Collected: 10/27/21 00:00

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Soluble DI Leach 11237 Leach 5 g 50 mL 11/02/21 12:31 СН XEN MID 300.0 11/07/21 05:59 Soluble Analysis 1 11453 CH XEN MID

Client Sample ID: BH-8 (6) Lab Sample ID: 890-1502-8

Date Collected: 10/27/21 00:00 Matrix: Solid

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 03:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11223	11/02/21 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11317	11/03/21 14:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11237	11/02/21 12:31	CH	XEN MID
Soluble	Analysis	300.0		5			11453	11/07/21 06:07	CH	XEN MID

Client Sample ID: BH-9 (6) Lab Sample ID: 890-1502-9

Date Collected: 10/27/21 00:00 **Matrix: Solid** Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 03:31	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11223	11/02/21 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11317	11/03/21 15:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	11237	11/02/21 12:31	CH	XEN MID
Soluble	Analysis	300.0		5			11453	11/07/21 06:14	CH	XEN MID

Client Sample ID: BH-10 (6) Lab Sample ID: 890-1502-10

Date Collected: 10/27/21 00:00 **Matrix: Solid** Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 03:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11223	11/02/21 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11317	11/03/21 15:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11237	11/02/21 12:31	CH	XEN MID
Soluble	Analysis	300.0		5			11453	11/07/21 06:36	CH	XEN MID

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Job ID: 890-1502-1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-11 (6) Lab Sample ID: 890-1502-11 Date Collected: 10/27/21 00:00

Matrix: Solid

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 05:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11223	11/02/21 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11317	11/03/21 16:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11237	11/02/21 12:31	CH	XEN MID
Soluble	Analysis	300.0		1			11453	11/07/21 06:44	CH	XEN MID

Client Sample ID: BH-12 (6) Lab Sample ID: 890-1502-12

Date Collected: 10/27/21 00:00 **Matrix: Solid** Date Received: 10/29/21 12:45

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 11/01/21 11:05 Total/NA 4.99 g 5 mL 11075 KL XEN MID Total/NA 8021B 5 mL 11/03/21 05:34 XEN MID Analysis 1 5 mL 11206 MR Total/NA Total BTEX 11768 XEN MID Analysis 11/08/21 17:11 A.I 1 Total/NA Analysis 8015 NM 11598 11/05/21 13:50 XEN MID Total/NA XEN MID Prep 8015NM Prep 10.03 g 11223 11/02/21 11:44 DM 10 mL Total/NA Analysis 8015B NM 11317 11/03/21 16:22 AJ XEN MID Soluble 11237 XEN MID Leach DI Leach 5.05 g 50 mL 11/02/21 12:31 CH Soluble Analysis 300.0 1 11453 11/07/21 06:51 CH XEN MID

Client Sample ID: BH-13 (6) Lab Sample ID: 890-1502-13

Date Collected: 10/27/21 00:00 **Matrix: Solid** Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 05:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11223	11/02/21 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11317	11/03/21 16:42	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	11237	11/02/21 12:31	CH	XEN MID
Soluble	Analysis	300.0		5			11453	11/07/21 14:10	CH	XEN MID

Lab Sample ID: 890-1502-14 Client Sample ID: BH-14 (6)

Date Collected: 10/27/21 00:00 **Matrix: Solid** Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 06:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID

Client Sample ID: BH-14 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Lab Sample ID: 890-1502-14

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11223	11/02/21 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11317	11/03/21 17:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	11237	11/02/21 12:31	СН	XEN MID
Soluble	Analysis	300.0		5			11453	11/07/21 07:06	CH	XEN MID

Client Sample ID: BH-15 (6) Lab Sample ID: 890-1502-15

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 06:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	11223	11/02/21 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11317	11/03/21 17:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	11237	11/02/21 12:31	CH	XEN MID
Soluble	Analysis	300.0		5			11453	11/07/21 07:13	CH	XEN MID

Lab Sample ID: 890-1502-16 Client Sample ID: BH-16 (6) Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 06:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11223	11/02/21 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11317	11/03/21 17:42	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	11237	11/02/21 12:31	CH	XEN MID
Soluble	Analysis	300.0		5			11453	11/07/21 07:35	CH	XEN MID

Lab Sample ID: 890-1502-17 Client Sample ID: BH-17 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 07:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g	10 mL	11223 11317	11/02/21 11:44 11/03/21 18:03	DM AJ	XEN MID XEN MID

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Job ID: 890-1502-1

SDG: 212C-MD-02230

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Lab Sample ID: 890-1502-17

Client Sample ID: BH-17 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	11237	11/02/21 12:31	СН	XEN MID
Soluble	Analysis	300.0		5			11453	11/07/21 07:43	CH	XEN MID

Client Sample ID: BH-18 (6) Lab Sample ID: 890-1502-18

Date Collected: 10/27/21 00:00 **Matrix: Solid** Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 07:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11223	11/02/21 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11317	11/03/21 18:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11237	11/02/21 12:31	СН	XEN MID
Soluble	Analysis	300.0		5			11453	11/07/21 08:05	CH	XEN MID

Client Sample ID: BH-19 (6) Lab Sample ID: 890-1502-19

Date Collected: 10/27/21 00:00 **Matrix: Solid** Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 07:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11223	11/02/21 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11317	11/03/21 18:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11237	11/02/21 12:31	CH	XEN MID
Soluble	Analysis	300.0		5			11453	11/07/21 08:13	CH	XEN MID

Client Sample ID: BH-20 (6) Lab Sample ID: 890-1502-20

Date Collected: 10/27/21 00:00 **Matrix: Solid** Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	11075	11/01/21 11:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11206	11/03/21 08:17	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11223	11/02/21 11:44	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11317	11/03/21 19:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11237	11/02/21 12:31	CH	XEN MID
Soluble	Analysis	300.0		1			11453	11/07/21 08:20	CH	XEN MID

Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-21 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Lab Sample ID: 890-1502-21

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/02/21 18:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11255	11/02/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 11:27	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11237	11/02/21 12:31	CH	XEN MID
Soluble	Analysis	300.0		1			11453	11/07/21 08:27	CH	XEN MID

Client Sample ID: BH-22 (6) Lab Sample ID: 890-1502-22 Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 5.02 g 5 mL 11109 11/01/21 12:05 KL XEN MID Total/NA 8021B 5 mL 11/02/21 18:35 XEN MID Analysis 1 5 mL 11221 MR 11/09/21 10:40 Total/NA Total BTEX 11768 XEN MID Analysis 1 A.I Total/NA Analysis 8015 NM 11598 11/05/21 13:50 XEN MID Total/NA XEN MID Prep 8015NM Prep 10.02 g 11255 11/02/21 14:45 DM 10 mL Total/NA Analysis 8015B NM 11321 11/03/21 12:32 AJ XEN MID Soluble XEN MID Leach DI Leach 5.04 g 50 mL 11237 11/02/21 12:31 CH Soluble Analysis 300.0 1 11453 11/07/21 08:35 CH XEN MID

Client Sample ID: BH-23 (6) Lab Sample ID: 890-1502-23 Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/02/21 18:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11255	11/02/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 12:53	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	11237	11/02/21 12:31	CH	XEN MID
Soluble	Analysis	300.0		1			11453	11/07/21 08:42	CH	XEN MID

Lab Sample ID: 890-1502-24 Client Sample ID: BH-24 (6) Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/02/21 19:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID

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Client Sample ID: BH-24 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-24

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11255	11/02/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 13:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	11237	11/02/21 12:31	CH	XEN MID
Soluble	Analysis	300.0		1			11453	11/07/21 08:49	CH	XEN MID

Client Sample ID: BH-25 (15)

Date Collected: 10/27/21 00:00

Lab Sample ID: 890-1502-25

Matrix: Solid

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/02/21 19:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11255	11/02/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 13:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	11238	11/02/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		1			11454	11/07/21 09:49	CH	XEN MID

Client Sample ID: BH-26 (15)

Date Collected: 10/27/21 00:00

Lab Sample ID: 890-1502-26

Matrix: Solid

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/02/21 19:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	11255	11/02/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 13:57	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	11238	11/02/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		5			11454	11/07/21 10:11	CH	XEN MID

Client Sample ID: BH-27 (15)

Lab Sample ID: 890-1502-27

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/02/21 20:17	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.05 g	10 mL	11255 11321	11/02/21 14:45 11/03/21 14:18	DM AJ	XEN MID XEN MID

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Job ID: 890-1502-1

SDG: 212C-MD-02230

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Client Sample ID: BH-27 (15) Lab Sample ID: 890-1502-27

Date Collected: 10/27/21 00:00 Matrix: Solid Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	11238	11/02/21 12:34	СН	XEN MID
Soluble	Analysis	300.0		1			11454	11/07/21 10:18	CH	XEN MID

Client Sample ID: BH-28 (15) Lab Sample ID: 890-1502-28

Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/02/21 20:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11255	11/02/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 14:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11238	11/02/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		1			11454	11/07/21 10:26	CH	XEN MID

Client Sample ID: BH-29 (15) Lab Sample ID: 890-1502-29

Date Collected: 10/27/21 00:00 **Matrix: Solid** Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/02/21 20:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11255	11/02/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 15:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	11238	11/02/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		1			11454	11/07/21 10:33	CH	XEN MID

Client Sample ID: BH-30 (15) Lab Sample ID: 890-1502-30

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Released to Imaging: 9/1/2023 2:55:43 PM

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/02/21 21:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11255	11/02/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 15:21	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11238	11/02/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		1			11454	11/07/21 10:56	CH	XEN MID

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Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-31 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Lab Sample ID: 890-1502-31

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 Total/NA Prep 5.03 g 5 mL 11109 11/01/21 12:05 KL XEN MID 8021B Total/NA Analysis 1 5 mL 5 mL 11221 11/02/21 23:07 MR XEN MID Total/NA Analysis Total BTEX 11768 11/09/21 10:40 ΑJ XEN MID Total/NA 8015 NM Analysis 1 11598 11/05/21 13:50 AJ XEN MID Total/NA 8015NM Prep 10 mL 11255 XEN MID Prep 10.03 g 11/02/21 14:45 DM Total/NA Analysis 8015B NM 11321 11/03/21 16:03 AJ XEN MID Soluble DI Leach 5.01 g 50 mL 11238 11/02/21 12:34 СН XEN MID Leach Soluble Analysis 300.0 11454 11/07/21 11:03 CH XEN MID

Client Sample ID: BH-32 (15) Lab Sample ID: 890-1502-32 Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/02/21 23:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11255	11/02/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 16:24	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11238	11/02/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		1			11454	11/07/21 11:10	CH	XEN MID

Client Sample ID: BH-33 (15) Lab Sample ID: 890-1502-33 Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/02/21 23:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11255	11/02/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 16:46	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	11238	11/02/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		1			11454	11/07/21 11:18	CH	XEN MID

Lab Sample ID: 890-1502-34 Client Sample ID: BH-34 (15) Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 00:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID

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Client Sample ID: BH-34 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-34

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11255	11/02/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 17:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11238	11/02/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		1			11454	11/07/21 11:25	CH	XEN MID

Client Sample ID: BH-35 (15) Lab Sample ID: 890-1502-35 Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 00:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	11255	11/02/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 17:28	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	11238	11/02/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		1			11454	11/07/21 11:33	CH	XEN MID

Client Sample ID: BH-36 (15) Lab Sample ID: 890-1502-36 Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 00:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11255	11/02/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 17:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	11238	11/02/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		1			11454	11/07/21 11:55	CH	XEN MID

Lab Sample ID: 890-1502-37 Client Sample ID: BH-37 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 01:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g	10 mL	11255 11321	11/02/21 14:45 11/03/21 18:11	DM AJ	XEN MID XEN MID

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

Client Sample ID: BH-37 (15)

Client Sample ID: BH-38 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-37

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	11238	11/02/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		5			11454	11/07/21 12:02	CH	XEN MID

Lab Sample ID: 890-1502-38

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 01:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11255	11/02/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 18:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	11238	11/02/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		5			11454	11/07/21 12:25	CH	XEN MID

Client Sample ID: BH-39 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Lab Sample ID: 890-1502-39

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 01:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11255	11/02/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 18:53	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11238	11/02/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		5			11454	11/07/21 12:32	CH	XEN MID

Client Sample ID: BH-40 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Lab	Sample	ID:	890-	15	02-	40	

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 02:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11255	11/02/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 19:15	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	11238	11/02/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		1			11454	11/07/21 12:39	CH	XEN MID

Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-41 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Lab Sample ID: 890-1502-41

Matrix: Solid

Matrix: Solid

XEN MID

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11111	11/01/21 12:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11259	11/04/21 02:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11273	11/02/21 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 11:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	11238	11/02/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		1			11454	11/07/21 12:47	CH	XEN MID

Client Sample ID: BH-42 (15) Lab Sample ID: 890-1502-42 Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 11111 Total/NA 5.00 g 5 mL 11/01/21 12:11 KL XEN MID Total/NA 8021B 5 mL 11/04/21 02:46 XEN MID Analysis 1 5 mL 11259 MR 11/09/21 10:40 Total/NA Total BTEX 11768 XEN MID Analysis 1 A.I Total/NA Analysis 8015 NM 11598 11/05/21 13:50 XEN MID Total/NA XEN MID Prep 8015NM Prep 10.02 g 11273 11/02/21 16:07 DM 10 mL Total/NA Analysis 8015B NM 11323 11/03/21 12:32 AJ XEN MID Soluble 11/02/21 12:34 XEN MID Leach DI Leach 5 g 50 mL 11238 CH

Lab Sample ID: 890-1502-43 Client Sample ID: BH-43 (15) Date Collected: 10/27/21 00:00 **Matrix: Solid**

11454

11/07/21 12:54

CH

1

Date Received: 10/29/21 12:45

Analysis

300.0

Soluble

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035		·	5.05 g	5 mL	11111	11/01/21 12:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11259	11/04/21 03:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11273	11/02/21 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 12:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	11238	11/02/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		5			11454	11/07/21 13:02	CH	XEN MID

Client Sample ID: BH-44 (15) Lab Sample ID: 890-1502-44 Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	11111	11/01/21 12:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11259	11/04/21 03:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID

Client Sample ID: BH-44 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-44

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11273	11/02/21 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 13:14	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11238	11/02/21 12:34	CH	XEN MID
Soluble	Analysis	300.0		1			11454	11/07/21 13:09	CH	XEN MID

Lab Sample ID: 890-1502-45 Client Sample ID: BH-45 (15) Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11111	11/01/21 12:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11259	11/04/21 04:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11273	11/02/21 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 13:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11240	11/02/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			11455	11/08/21 04:30	CH	XEN MID

Client Sample ID: BH-46 (15) Lab Sample ID: 890-1502-46 Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11111	11/01/21 12:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11259	11/04/21 04:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	11273	11/02/21 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 13:57	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	11240	11/02/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		5			11455	11/08/21 04:53	CH	XEN MID

Lab Sample ID: 890-1502-47 Client Sample ID: BH-47 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11111	11/01/21 12:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11259	11/04/21 05:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.05 g	10 mL	11273 11323	11/02/21 16:07 11/03/21 14:18	DM AJ	XEN MID XEN MID

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Client Sample ID: BH-47 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-47

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	11240	11/02/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			11455	11/08/21 05:00	CH	XEN MID

Client Sample ID: BH-48 (15)

Lab Sample ID: 890-1502-48

Date Collected: 10/27/21 00:00 Matrix: Solid

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11111	11/01/21 12:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11259	11/04/21 05:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11273	11/02/21 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 14:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	11240	11/02/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		5			11455	11/08/21 05:08	CH	XEN MID

Client Sample ID: BH-49 (15)

Lab Sample ID: 890-1502-49

Date Collected: 10/27/21 00:00 Matrix: Solid
Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11111	11/01/21 12:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11259	11/04/21 05:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11273	11/02/21 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 15:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11240	11/02/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			11455	11/08/21 05:16	CH	XEN MID

Client Sample ID: BH-50 (15)

Lab Sample ID: 890-1502-50

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	11111	11/01/21 12:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11259	11/04/21 06:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11273	11/02/21 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 15:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	11240	11/02/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			11455	11/08/21 05:39	CH	XEN MID

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Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-51 (15)

Date Received: 10/29/21 12:45

Lab Sample ID: 890-1502-51 Date Collected: 10/27/21 00:00

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 5.00 g 5 mL 11111 11/01/21 12:11 KL XEN MID Total/NA Analysis 8021B 1 5 mL 5 mL 11259 11/04/21 08:10 MR XEN MID Total/NA Analysis Total BTEX 11768 11/09/21 10:40 ΑJ XEN MID Total/NA Analysis 8015 NM 1 11598 11/05/21 13:50 AJ XEN MID 10 mL XEN MID Total/NA 8015NM Prep 10.03 g 11273 11/02/21 16:07 DM Prep Total/NA Analysis 8015B NM 11323 11/03/21 16:03 ΑJ XEN MID 50 mL 11240 11/02/21 12:39 XEN MID Soluble Leach DI Leach 4.96 g CH Soluble Analysis 300.0 5 11455 11/08/21 05:46 CH XEN MID

Client Sample ID: BH-52 (15) Lab Sample ID: 890-1502-52

Date Collected: 10/27/21 00:00 **Matrix: Solid** Date Received: 10/29/21 12:45

Dil Initial Final Batch Batch Batch Prepared Prep Type Туре Method Factor Amount Amount Number or Analyzed Lab Run **Analyst** Total/NA Prep 5035 5.01 g 5 mL 11111 11/01/21 12:11 KL XEN MID 8021B Total/NA Analysis 1 5 mL 5 mL 11259 11/04/21 08:36 MR XEN MID Total/NA Total BTEX Analysis 11768 11/09/21 10:40 A.I XEN MID 1 Total/NA Analysis 8015 NM 11598 11/05/21 13:50 XEN MID Total/NA 8015NM Prep 10.03 g 11273 11/02/21 16:07 DM XEN MID Prep 10 mL Total/NA Analysis 8015B NM 11323 11/03/21 16:24 AJ XEN MID Soluble DI Leach 5.02 g 50 mL 11240 11/02/21 12:39 CH **XEN MID** Leach Soluble Analysis 300.0 5 11455 11/08/21 05:54 CH XEN MID

Client Sample ID: BH-53 (15) Lab Sample ID: 890-1502-53 Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	11388	11/03/21 08:30	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11420	11/04/21 11:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11273	11/02/21 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 16:46	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11240	11/02/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			11455	11/08/21 06:02	CH	XEN MID

Lab Sample ID: 890-1502-54 Client Sample ID: BH-54 (15) Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11111	11/01/21 12:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11259	11/04/21 09:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID

Client Sample ID: BH-54 (15)

Lab Sample ID: 890-1502-54 Date Collected: 10/27/21 00:00 Matrix: Solid Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11273	11/02/21 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 17:07	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	11240	11/02/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			11455	11/08/21 06:09	CH	XEN MID

Client Sample ID: BH-55 (15) Lab Sample ID: 890-1502-55 Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11111	11/01/21 12:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11259	11/04/21 09:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	11273	11/02/21 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 17:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11240	11/02/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		5			11455	11/08/21 06:17	CH	XEN MID

Client Sample ID: BH-56 (15) Lab Sample ID: 890-1502-56 Date Collected: 10/27/21 00:00 **Matrix: Solid** Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	11111	11/01/21 12:11	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11259	11/04/21 10:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11273	11/02/21 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 17:49	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11240	11/02/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		5			11455	11/08/21 06:40	CH	XEN MID

Lab Sample ID: 890-1502-57 Client Sample ID: BH-57 (15) Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	11445	11/04/21 11:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11449	11/05/21 00:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g	10 mL	11273 11323	11/02/21 16:07 11/03/21 18:11	DM AJ	XEN MID

Client Sample ID: BH-57 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-57

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	11240	11/02/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			11455	11/08/21 06:48	CH	XEN MID

Client Sample ID: BH-58 (15)

Lab Sample ID: 890-1502-58

Date Collected: 10/27/21 00:00 Matrix: Solid

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	11445	11/04/21 11:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11449	11/05/21 00:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11273	11/02/21 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 18:32	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	11240	11/02/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		5			11455	11/08/21 07:11	CH	XEN MID

Client Sample ID: BH-59 (15)

Lab Sample ID: 890-1502-59

Date Collected: 10/27/21 00:00 Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11445	11/04/21 11:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11449	11/05/21 01:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11273	11/02/21 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 18:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	11240	11/02/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		5			11455	11/08/21 07:18	CH	XEN MID

Client Sample ID: BH-60 (15)

Lab Sample ID: 890-1502-60

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11445	11/04/21 11:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11449	11/05/21 01:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11273	11/02/21 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 19:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11240	11/02/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			11455	11/08/21 07:26	CH	XEN MID

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Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-61 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Lab Sample ID: 890-1502-61

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11112	11/01/21 12:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 05:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11356	11/03/21 10:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 21:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	11240	11/02/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		10			11455	11/08/21 07:33	CH	XEN MID

Client Sample ID: BH-62 (15) Lab Sample ID: 890-1502-62

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 11112 Total/NA Prep 4.96 g 5 mL 11/01/21 12:13 KL XEN MID Total/NA 8021B 5 mL 11/03/21 06:08 XEN MID Analysis 1 5 mL 11221 MR 11/09/21 10:40 Total/NA Total BTEX 11768 XEN MID Analysis 1 A.I Total/NA Analysis 8015 NM 11598 11/05/21 13:50 XEN MID Total/NA 11356 XEN MID Prep 8015NM Prep 10.02 g 11/03/21 10:38 DM 10 mL Total/NA Analysis 8015B NM 11323 11/03/21 22:16 AJ XEN MID Soluble XEN MID Leach DI Leach 4.96 g 50 mL 11240 11/02/21 12:39 CH Soluble Analysis 300.0 5 11455 11/08/21 07:41 CH XEN MID

Lab Sample ID: 890-1502-63 Client Sample ID: BH-63 (15) Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035		·	5.03 g	5 mL	11112	11/01/21 12:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 06:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11356	11/03/21 10:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 22:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	11240	11/02/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		1			11455	11/08/21 07:49	CH	XEN MID

Client Sample ID: BH-64 (15) Lab Sample ID: 890-1502-64 Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11112	11/01/21 12:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 06:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID

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Matrix: Solid

Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-64 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Lab Sample ID: 890-1502-64

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11356	11/03/21 10:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 23:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11240	11/02/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		5			11455	11/08/21 07:56	CH	XEN MID

Client Sample ID: BH-65 (15) Lab Sample ID: 890-1502-65

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Batch Batch Dil Initial Final Batch Prepared Prep Type Method Amount Amount Number or Analyzed Type Run Factor Analyst Lab 5035 Total/NA Prep 5.05 g 5 mL 11112 11/01/21 12:13 KL XEN MID Total/NA Analysis 8021B 5 mL 5 mL 11221 11/03/21 07:09 MR XEN MID 1 Total/NA Total BTEX Analysis 1 11768 11/09/21 10:40 AJ XEN MID Total/NA Analysis 8015 NM 11598 11/05/21 13:50 XEN MID AJ XEN MID Total/NA Prep 8015NM Prep 10.04 g 10 mL 11356 11/03/21 10:38 DM Total/NA Analysis 8015B NM 11323 11/03/21 23:21 XEN MID AJ1 Soluble Leach DI Leach 5.01 g 50 mL 11242 11/02/21 12:43 CH XEN MID Soluble Analysis 300.0 1 11456 11/08/21 08:58 CH XEN MID

Client Sample ID: BH-66 (15) Lab Sample ID: 890-1502-66 Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11112	11/01/21 12:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 07:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	11356	11/03/21 10:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 23:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11242	11/02/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		1			11456	11/08/21 09:21	CH	XEN MID

Client Sample ID: BH-67 (15) Lab Sample ID: 890-1502-67

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	11112	11/01/21 12:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 07:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.05 g	10 mL	11356 11323	11/03/21 10:38 11/04/21 00:02	DM AJ	XEN MID XEN MID

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Matrix: Solid

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Client Sample ID: BH-67 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-67

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	11242	11/02/21 12:43	СН	XEN MID
Soluble	Analysis	300.0		1			11456	11/08/21 09:29	CH	XEN MID

Client Sample ID: BH-68 (15) Lab Sample ID: 890-1502-68

Date Collected: 10/28/21 00:00 Matrix: Solid

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11112	11/01/21 12:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 08:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11356	11/03/21 10:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/04/21 00:23	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	11242	11/02/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		5			11456	11/08/21 09:36	CH	XEN MID

Client Sample ID: BH-69 (15) Lab Sample ID: 890-1502-69

Initial

Amount

4.98 g

5 mL

10.02 g

5.01 g

Final

Amount

5 mL

5 mL

10 mL

50 mL

11242

11456

Dil

1

1

1

1

Factor

Run

Date Collected: 10/28/21 00:00

Batch

Туре

Prep

Analysis

Analysis

Analysis

Analysis

Leach

Analysis

Prep

Batch

Method

5035

8021B

Total BTEX

8015NM Prep

8015B NM

DI Leach

300.0

8015 NM

Date Received: 10/29/21 12:45

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

5			
Batch Number	Prepared or Analyzed	Analyst	Lab
11112	11/01/21 12:13	KL	XEN MID
11221	11/03/21 08:30	MR	XEN MID
11768	11/09/21 10:40	AJ	XEN MID
11598	11/05/21 13:50	AJ	XEN MID
11356	11/03/21 10:38	DM	XEN MID
11323	11/04/21 00:44	AJ	XEN MID

11/02/21 12:43 CH

11/08/21 09:44 CH

Client Sample ID: BH-70 (15) Lab Sample ID: 890-1502-70

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11112	11/01/21 12:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 08:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11356	11/03/21 10:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/04/21 01:05	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	11242	11/02/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		1			11456	11/08/21 10:07	CH	XEN MID

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Matrix: Solid

XEN MID

XEN MID

Client Sample ID: BH-71 (15)

Lab Sample ID: 890-1502-71

Date Collected: 10/28/21 00:00 Matrix: Solid
Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	11112	11/01/21 12:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 10:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11356	11/03/21 10:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/04/21 01:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11242	11/02/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		1			11456	11/08/21 10:15	CH	XEN MID

Client Sample ID: BH-72 (15)

Date Collected: 10/28/21 00:00

Lab Sample ID: 890-1502-72

Matrix: Solid

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	11112	11/01/21 12:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 11:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11356	11/03/21 10:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/04/21 02:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11242	11/02/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		1			11456	11/08/21 10:22	CH	XEN MID

Client Sample ID: BH-73 (15)

Date Collected: 10/28/21 00:00

Lab Sample ID: 890-1502-73

Matrix: Solid

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	11112	11/01/21 12:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 11:21	MR	XEN MIC
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11356	11/03/21 10:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/04/21 02:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	11242	11/02/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		5			11456	11/08/21 10:30	CH	XEN MID

Client Sample ID: BH-74 (15)

Date Collected: 10/28/21 00:00

Lab Sample ID: 890-1502-74

Matrix: Solid

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11112	11/01/21 12:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 11:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID

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Client Sample ID: BH-74 (15)

Lab Sample ID: 890-1502-74

Date Collected: 10/28/21 00:00 Matrix: Solid
Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11356	11/03/21 10:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/04/21 02:52	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	11242	11/02/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		5			11456	11/08/21 10:37	CH	XEN MID

Client Sample ID: BH-75 (15)

Date Collected: 10/28/21 00:00

Lab Sample ID: 890-1502-75

Matrix: Solid

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	11112	11/01/21 12:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 12:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	11356	11/03/21 10:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/04/21 03:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11242	11/02/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		1			11456	11/08/21 10:45	CH	XEN MID

Client Sample ID: BH-76 (15)

Date Collected: 10/28/21 00:00

Lab Sample ID: 890-1502-76

Matrix: Solid

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11112	11/01/21 12:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 12:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11356	11/03/21 10:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/04/21 03:36	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11242	11/02/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		1			11456	11/08/21 11:08	CH	XEN MID

Client Sample ID: BH-77 (15)

Lab Sample ID: 890-1502-77

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11112	11/01/21 12:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 12:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g	10 mL	11356 11323	11/03/21 10:38 11/04/21 03:57	DM AJ	XEN MID XEN MID

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Client Sample ID: BH-77 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-77

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Soluble DI Leach Leach 5.03 g 50 mL 11242 11/02/21 12:43 СН XEN MID 300.0 11/08/21 12:34 Soluble Analysis 5 11456 CH XEN MID

Client Sample ID: BH-78 (15) Lab Sample ID: 890-1502-78

Date Collected: 10/28/21 00:00 Matrix: Solid

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	11112	11/01/21 12:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 13:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11356	11/03/21 10:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/04/21 04:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11242	11/02/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		1			11456	11/08/21 11:39	CH	XEN MID

Client Sample ID: BH-79 (15) Lab Sample ID: 890-1502-79

Date Collected: 10/28/21 00:00 **Matrix: Solid** Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	11112	11/01/21 12:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 13:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11356	11/03/21 10:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/04/21 04:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11242	11/02/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		1			11456	11/08/21 11:46	CH	XEN MID

Client Sample ID: BH-80 (15) Lab Sample ID: 890-1502-80

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	11112	11/01/21 12:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/03/21 13:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11356	11/03/21 10:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/04/21 05:01	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	11242	11/02/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		1			11456	11/08/21 11:54	CH	XEN MID

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Client Sample ID: BH-81 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-81

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/03/21 17:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11364	11/03/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11416	11/04/21 11:05	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	11242	11/02/21 12:43	CH	XEN MIC
Soluble	Analysis	300.0		1			11456	11/08/21 12:02	CH	XEN MID

Client Sample ID: BH-82 (15) Lab Sample ID: 890-1502-82 Date Collected: 10/28/21 00:00 Matrix: Solid

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/03/21 18:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11364	11/03/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11416	11/04/21 12:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11242	11/02/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		1			11456	11/08/21 12:09	CH	XEN MID

Client Sample ID: BH-83 (15) Lab Sample ID: 890-1502-83 Date Collected: 10/28/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/03/21 18:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11364	11/03/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11416	11/04/21 12:32	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	11242	11/02/21 12:43	СН	XEN MID
Soluble	Analysis	300.0		1			11456	11/08/21 12:17	CH	XEN MID

Client Sample ID: BH-84 (15) Lab Sample ID: 890-1502-84 Date Collected: 10/28/21 00:00

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/03/21 18:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID

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Matrix: Solid

11/10/2021

Client Sample ID: BH-84 (15)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-84

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11364	11/03/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11416	11/04/21 12:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	11242	11/02/21 12:43	CH	XEN MID
Soluble	Analysis	300.0		1			11456	11/08/21 12:25	CH	XEN MID

Client Sample ID: BH-85 (15)

Date Collected: 10/28/21 00:00

Lab Sample ID: 890-1502-85

Matrix: Solid

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/03/21 19:17	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11364	11/03/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11416	11/04/21 13:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	11243	11/02/21 12:46	CH	XEN MID
Soluble	Analysis	300.0		1			11705	11/09/21 12:52	CH	XEN MID

Client Sample ID: BH-86 (15)

Date Collected: 10/28/21 00:00

Lab Sample ID: 890-1502-86

Matrix: Solid

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/03/21 19:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	11364	11/03/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11416	11/04/21 13:38	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11243	11/02/21 12:46	CH	XEN MID
Soluble	Analysis	300.0		1			11705	11/09/21 13:15	CH	XEN MID

Client Sample ID: BH-87 (15)

Lab Sample ID: 890-1502-87

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/03/21 19:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.05 g	10 mL	11364 11416	11/03/21 11:37 11/04/21 13:59	DM AJ	XEN MID XEN MID

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

Lab Sample ID: 890-1502-87

Matrix: Solid

Client Sample ID: BH-87 (15) Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	11243	11/02/21 12:46	CH	XEN MID
Soluble	Analysis	300.0		1			11705	11/09/21 13:22	CH	XEN MID

Client Sample ID: BH-88 (15) Lab Sample ID: 890-1502-88

Date Collected: 10/28/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/03/21 20:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11364	11/03/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11416	11/04/21 14:20	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	11243	11/02/21 12:46	CH	XEN MID
Soluble	Analysis	300.0		5			11705	11/09/21 13:30	CH	XEN MID

Client Sample ID: BH-89 (15) Lab Sample ID: 890-1502-89

Date Collected: 10/28/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/03/21 20:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11364	11/03/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11416	11/04/21 14:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11243	11/02/21 12:46	CH	XEN MID
Soluble	Analysis	300.0		5			11705	11/09/21 13:38	CH	XEN MID

Client Sample ID: BH90 (RS) (6)

Date Collected: 10/28/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

Released to Imaging: 9/1/2023 2:55:43 PM

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/03/21 20:59	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11364	11/03/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11416	11/04/21 15:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11243	11/02/21 12:46	CH	XEN MID
Soluble	Analysis	300.0		1			11705	11/09/21 14:01	CH	XEN MID

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Lab Sample ID: 890-1502-90

Job ID: 890-1502-1 SDG: 212C-MD-02230

Project/Site: Kaiser SWD

Client: Tetra Tech, Inc.

Client Sample ID: BH-91 (RS) (6)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Lab Sample ID: 890-1502-91

Lab Sample ID: 890-1502-92

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/03/21 22:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11364	11/03/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11416	11/04/21 15:46	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	11243	11/02/21 12:46	CH	XEN MID
Soluble	Analysis	300.0		1			11705	11/09/21 14:08	CH	XEN MID

Client Sample ID: SW-1 (0-6)

Date Collected: 10/25/21 00:00

Date Received: 10/29/21 12:45

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 5.00 g Total/NA Prep 5 mL 11113 11/01/21 12:16 KL XEN MID Total/NA 8021B 5 mL 11/03/21 23:09 XEN MID Analysis 1 5 mL 11374 MR Total/NA Total BTEX 11768 11/09/21 10:40 XEN MID Analysis 1 A.I Total/NA Analysis 8015 NM 11598 11/08/21 15:54 XEN MID Total/NA 8015NM Prep XEN MID Prep 10.03 g 11364 11/03/21 11:37 DM 10 mL Total/NA Analysis 8015B NM 11416 11/04/21 16:07 ΑJ XEN MID Soluble XEN MID Leach DI Leach 4.99 g 50 mL 11233 11/02/21 12:00 CH Soluble Analysis 300.0 5 11381 11/07/21 02:54 CH XEN MID

Client Sample ID: SW-2 (0-6)

Date Collected: 10/25/21 00:00

Date Received: 10/29/21 12:45

Lab Sample ID: 890-1502-93

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/03/21 23:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11364	11/03/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11416	11/04/21 16:29	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11233	11/02/21 12:00	CH	XEN MID
Soluble	Analysis	300.0		1			11381	11/07/21 03:16	CH	XEN MID

C

Client Sample ID: SW-3 (0-6)					Lab Sample ID:	890-1502-94
Date Collected: 10/25/21 00:00							Matrix: Solid
Date Received: 10/29/21 12:45							
	Potob	Dil	Initial	Final	Potob	Droporod	

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/03/21 23:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID

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Client Sample ID: SW-3 (0-6)

Date Collected: 10/25/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-94

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11364	11/03/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11416	11/04/21 16:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11233	11/02/21 12:00	CH	XEN MID
Soluble	Analysis	300.0		1			11381	11/07/21 03:24	CH	XEN MID

Client Sample ID: SW-4 (0-6) Lab Sample ID: 890-1502-95

Date Collected: 10/25/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 00:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	11364	11/03/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11416	11/04/21 17:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	11233	11/02/21 12:00	CH	XEN MID
Soluble	Analysis	300.0		1			11381	11/07/21 03:46	CH	XEN MID

Client Sample ID: SW-5 (0-6) Lab Sample ID: 890-1502-96 Date Collected: 10/25/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	11113	11/01/21 12:16	KL	XEN MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 00:30	MR	XEN MIC
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11364	11/03/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11416	11/04/21 17:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	11233	11/02/21 12:00	CH	XEN MID
Soluble	Analysis	300.0		5			11381	11/07/21 03:53	CH	XEN MID

Lab Sample ID: 890-1502-97 Client Sample ID: SW-6 (0-6)

Date Collected: 10/25/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 00:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g	10 mL	11364 11416	11/03/21 11:37 11/04/21 17:56	DM AJ	XEN MID XEN MID

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Client Sample ID: SW-6 (0-6)

Date Collected: 10/25/21 00:00 Date Received: 10/29/21 12:45

Lab Sample ID: 890-1502-97

Matrix: Solid

Job ID: 890-1502-1

SDG: 212C-MD-02230

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Soluble DI Leach 5.02 g 50 mL 11233 11/02/21 12:00 СН XEN MID Leach Soluble Analysis 300.0 10 11381 11/07/21 04:01 CH XEN MID

Client Sample ID: SW-7 (0-6) Lab Sample ID: 890-1502-98

Date Collected: 10/26/21 00:00 **Matrix: Solid** Date Received: 10/29/21 12:45

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 4.98 g 11113 11/01/21 12:16 KL XEN MID Prep 5 mL 8021B Total/NA 5 mL 5 mL MR Analysis 1 11374 11/04/21 01:11 XEN MID Total/NA Total BTEX 11768 XEN MID Analysis 11/09/21 10:40 AJ 1 Total/NA Analysis 8015 NM 11598 11/08/21 15:54 ΑJ XEN MID XEN MID Total/NA Prep 8015NM Prep 10.02 g 10 mL 11364 11/03/21 11:37 DM 8015B NM Total/NA Analysis 11416 11/04/21 18:17 AJ XEN MID Soluble DI Leach 50 mL 11233 11/02/21 12:00 СН XEN MID Leach 5 g 300.0 10 11/07/21 04:08 XEN MID Soluble Analysis 11381 CH

Client Sample ID: SW-8 (0-6) Lab Sample ID: 890-1502-99

Date Collected: 10/26/21 00:00 **Matrix: Solid** Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 01:31	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11364	11/03/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11416	11/04/21 18:39	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11233	11/02/21 12:00	CH	XEN MID
Soluble	Analysis	300.0		5			11381	11/07/21 04:15	CH	XEN MID

Lab Sample ID: 890-1502-100 Client Sample ID: SW-9 (0-6)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 01:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11364	11/03/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11416	11/04/21 19:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11233	11/02/21 12:00	CH	XEN MID
Soluble	Analysis	300.0		5			11381	11/07/21 04:23	CH	XEN MID

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Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-10 (0-6)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-101

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11114	11/01/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 05:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11375	11/03/21 13:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11418	11/04/21 11:05	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	11233	11/02/21 12:00	CH	XEN MID
Soluble	Analysis	300.0		5			11381	11/07/21 04:30	CH	XEN MID

Client Sample ID: SW-11 (0-6) Lab Sample ID: 890-1502-102

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11114	11/01/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 05:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11375	11/03/21 13:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11418	11/04/21 12:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	11236	11/02/21 12:22	СН	XEN MID
Soluble	Analysis	300.0		1			11452	11/08/21 09:36	CH	XEN MID

Client Sample ID: SW-12 (10) Lab Sample ID: 890-1502-103 **Matrix: Solid**

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11114	11/01/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 06:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11375	11/03/21 13:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11418	11/04/21 12:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11236	11/02/21 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			11452	11/08/21 09:46	CH	XEN MID

Client Sample ID: SW-13 (15) Lab Sample ID: 890-1502-104

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	11114	11/01/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 06:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID

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Matrix: Solid

Date Received: 10/29/21 12:45

Job ID: 890-1502-1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-13 (15)

Lab Sample ID: 890-1502-104 Date Collected: 10/26/21 00:00

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11375	11/03/21 13:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11418	11/04/21 12:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11236	11/02/21 12:22	CH	XEN MID
Soluble	Analysis	300.0		5			11452	11/08/21 09:57	CH	XEN MID

Client Sample ID: SW-14 (15) Lab Sample ID: 890-1502-105

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11114	11/01/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 06:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11375	11/03/21 13:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11418	11/04/21 13:16	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11236	11/02/21 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			11452	11/08/21 10:07	CH	XEN MID

Client Sample ID: SW-15 (15) Lab Sample ID: 890-1502-106 Date Collected: 10/26/21 00:00

Date Received: 10/29/21 12:45

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	11114	11/01/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 07:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	11375	11/03/21 13:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11418	11/04/21 13:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	11236	11/02/21 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			11452	11/08/21 10:39	CH	XEN MID

Lab Sample ID: 890-1502-107 Client Sample ID: SW-16 (15)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11114	11/01/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 07:31	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	11375	11/03/21 13:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11418	11/04/21 13:59	AJ	XEN MID

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Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-16 (15)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-107

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	11236	11/02/21 12:22	СН	XEN MID
Soluble	Analysis	300.0		1			11452	11/08/21 10:49	CH	XEN MID

Client Sample ID: SW-17 (15) Lab Sample ID: 890-1502-108

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11114	11/01/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 07:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11375	11/03/21 13:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11418	11/04/21 14:20	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	11236	11/02/21 12:22	CH	XEN MID
Soluble	Analysis	300.0		5			11452	11/08/21 11:00	CH	XEN MID

Client Sample ID: SW-18 (15) Lab Sample ID: 890-1502-109

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45 **Matrix: Solid**

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11114	11/01/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 08:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11375	11/03/21 13:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11418	11/04/21 14:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11236	11/02/21 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			11452	11/08/21 11:10	CH	XEN MID

Client Sample ID: SW-19 (15) Lab Sample ID: 890-1502-110

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	11114	11/01/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 08:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11375	11/03/21 13:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11418	11/04/21 15:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11236	11/02/21 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			11452	11/08/21 11:20	CH	XEN MID

Eurofins Xenco, Carlsbad

11/10/2021

Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-20 (15)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Lab Sample ID: 890-1502-111

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	11114	11/01/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 10:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11375	11/03/21 13:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11418	11/04/21 15:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11236	11/02/21 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			11452	11/08/21 11:31	CH	XEN MID

Client Sample ID: SW-21 (15) Lab Sample ID: 890-1502-112

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 11114 Total/NA 5.02 g 5 mL 11/01/21 12:18 KL XEN MID Total/NA 8021B 5 mL 11/04/21 10:41 XEN MID Analysis 1 5 mL 11374 MR 11/09/21 10:40 Total/NA Total BTEX 11768 XEN MID Analysis 1 A.I Total/NA Analysis 8015 NM 11598 11/08/21 15:54 XEN MID Total/NA 11375 XEN MID Prep 8015NM Prep 10.03 g 11/03/21 13:15 DM 10 mL Total/NA Analysis 8015B NM 11418 11/04/21 16:07 AJ XEN MID Soluble 11/02/21 12:22 XEN MID Leach DI Leach 4.99 g 50 mL 11236 CH Soluble Analysis 300.0 10 11452 11/08/21 12:02 CH XEN MID

Client Sample ID: SW-22 (15) Lab Sample ID: 890-1502-113 Date Collected: 10/26/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035		·	5.02 g	5 mL	11114	11/01/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 11:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:58	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11375	11/03/21 13:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11418	11/04/21 16:29	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11236	11/02/21 12:22	CH	XEN MID
Soluble	Analysis	300.0		10			11452	11/08/21 12:12	CH	XEN MID

Client Sample ID: SW-23 (15) Lab Sample ID: 890-1502-114 Date Collected: 10/26/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	11114	11/01/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 11:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:58	AJ	XEN MID

Eurofins Xenco, Carlsbad

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-23 (15)

Lab Sample ID: 890-1502-114 Date Collected: 10/26/21 00:00

Matrix: Solid

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11375	11/03/21 13:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11418	11/04/21 16:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	11236	11/02/21 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			11452	11/08/21 12:43	CH	XEN MID

Client Sample ID: SW-24 (15) Lab Sample ID: 890-1502-115

Date Collected: 10/26/21 00:00 **Matrix: Solid** Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11114	11/01/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 11:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:58	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	11375	11/03/21 13:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11418	11/04/21 17:14	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11236	11/02/21 12:22	CH	XEN MID
Soluble	Analysis	300.0		5			11452	11/08/21 12:54	CH	XEN MID

Client Sample ID: SW-25 (15) Lab Sample ID: 890-1502-116

Date Collected: 10/26/21 00:00 **Matrix: Solid** Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11114	11/01/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 12:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:58	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11375	11/03/21 13:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11418	11/04/21 17:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	11236	11/02/21 12:22	CH	XEN MID
Soluble	Analysis	300.0		10			11452	11/08/21 13:04	CH	XEN MID

Client Sample ID: SW-26 (15) Lab Sample ID: 890-1502-117

Date Collected: 10/26/21 00:00 **Matrix: Solid** Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	11114	11/01/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 12:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:58	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11375	11/03/21 13:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11418	11/04/21 17:56	AJ	XEN MID

Eurofins Xenco, Carlsbad

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-26 (15)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-117

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	11236	11/02/21 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			11452	11/08/21 13:15	CH	XEN MID

Client Sample ID: SW-27 (15) Lab Sample ID: 890-1502-118

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	11114	11/01/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 12:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:58	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11375	11/03/21 13:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11418	11/04/21 18:17	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11236	11/02/21 12:22	CH	XEN MID
Soluble	Analysis	300.0		10			11452	11/08/21 13:25	CH	XEN MID

Client Sample ID: SW-28 (15) Lab Sample ID: 890-1502-119

Date Collected: 10/26/21 00:00

Matrix: Solid

Matrix: Solid

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	11114	11/01/21 12:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 13:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:58	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11375	11/03/21 13:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11418	11/04/21 18:39	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11236	11/02/21 12:22	CH	XEN MID
Soluble	Analysis	300.0		5			11452	11/08/21 13:36	CH	XEN MID

Client Sample ID: SW-29 (15) Lab Sample ID: 890-1502-120

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11445	11/04/21 11:11	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11449	11/05/21 03:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:58	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11375	11/03/21 13:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11418	11/04/21 19:01	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11236	11/02/21 12:22	CH	XEN MID
Soluble	Analysis	300.0		1			11452	11/08/21 13:46	CH	XEN MID

Eurofins Xenco, Carlsbad

Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-30 (RS) (6)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Lab Sample ID: 890-1502-121

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11076	11/01/21 11:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11022	11/01/21 23:40	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:58	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11376	11/03/21 13:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11414	11/04/21 10:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	11243	11/02/21 12:46	CH	XEN MID
Soluble	Analysis	300.0		1			11705	11/09/21 14:45	CH	XEN MID

Client Sample ID: SW-31 (RS) (4) Lab Sample ID: 890-1502-122

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Matrix: Solid

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 4.95 g 5 mL 11076 11/01/21 11:07 KL XEN MID Total/NA 8021B 5 mL 11/02/21 00:00 XEN MID Analysis 1 5 mL 11022 KL 11/09/21 10:58 Total/NA Total BTEX 11768 XEN MID Analysis A.I 1 Total/NA Analysis 8015 NM 11598 11/08/21 15:54 XEN MID Total/NA XEN MID Prep 8015NM Prep 10.02 g 11376 11/03/21 13:58 DM 10 mL Total/NA Analysis 8015B NM 11414 11/04/21 11:55 AJ XEN MID Soluble XEN MID Leach DI Leach 5.01 g 50 mL 11243 11/02/21 12:46 CH Soluble Analysis 300.0 1 11705 11/09/21 14:53 CH XEN MID

Client Sample ID: SW-32 (RS) (6) Lab Sample ID: 890-1502-123

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11076	11/01/21 11:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11022	11/02/21 00:21	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:58	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11376	11/03/21 13:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11414	11/04/21 12:15	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11243	11/02/21 12:46	CH	XEN MID
Soluble	Analysis	300.0		1			11705	11/09/21 15:01	CH	XEN MID

Lab Sample ID: 890-1502-124 Client Sample ID: SW-33 (RS) (8) Date Collected: 10/28/21 00:00

Date Received: 10/29/21 12:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	11076	11/01/21 11:07	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11022	11/02/21 00:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:58	AJ	XEN MID

Eurofins Xenco, Carlsbad

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Matrix: Solid

Matrix: Solid

Lab Chronicle

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: SW-33 (RS) (8)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-124

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11376	11/03/21 13:58	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11414	11/04/21 12:36	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	11243	11/02/21 12:46	CH	XEN MID
Soluble	Analysis	300.0		1			11705	11/09/21 15:08	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	P	rogram	Identification Number	Expiration Date
Texas	N	ELAP	T104704400-21-22	06-30-22
The following analytes the agency does not of		ut the laboratory is not certifi	ied by the governing authority. This list ma	ay include analytes for wh
Analysis Method	Prep Method	Matrix	Analyte	
0045 1114		Solid	Total TPH	
8015 NM		Juliu	IOIAI IPH	

Method Summary

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

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4.0

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Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-1502-1 SDG: 212C-MD-02230

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1502-1	BH-1 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-2	BH-2 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-3	BH-3 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-4	BH-4 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-5	BH-5 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-6	BH-6 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-7	BH-7 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-8	BH-8 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-9	BH-9 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-10	BH-10 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-11	BH-11 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-12	BH-12 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-13	BH-13 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-14	BH-14 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-15	BH-15 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-16	BH-16 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-17	BH-17 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-18	BH-18 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-19	BH-19 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-20	BH-20 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-21	BH-21 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-22	BH-22 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-23	BH-23 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-24	BH-24 (6)	Solid	10/27/21 00:00	10/29/21 12:45	6
890-1502-25	BH-25 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-26	BH-26 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-27	BH-27 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-28	BH-28 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-29	BH-29 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-30	BH-30 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-31	BH-31 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-32	BH-32 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-33	BH-33 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-34	BH-34 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-35	BH-35 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-36	BH-36 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-37	BH-37 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-38	BH-38 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-39	BH-39 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-40	BH-40 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-41	BH-41 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-42	BH-42 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-43	BH-43 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-44	BH-44 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-45	BH-45 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-46	BH-46 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-47	BH-47 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-48	BH-48 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-49	BH-49 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-49	BH-50 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-50	BH-51 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-51 890-1502-52	BH-52 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-53	BH-53 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15

10/27/21 00:00

10/29/21 12:45 15

Solid

BH-54 (15)

890-1502-54

Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1502-55	BH-55 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-56	BH-56 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-57	BH-57 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-58	BH-58 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-59	BH-59 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-60	BH-60 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-61	BH-61 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-62	BH-62 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-63	BH-63 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-64	BH-64 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-65	BH-65 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-66	BH-66 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-67	BH-67 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-68	BH-68 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-69	BH-69 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-70	BH-70 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-71	BH-71 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-72	BH-72 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-73	BH-73 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-74	BH-74 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-75	BH-75 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-76	BH-76 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-77	BH-77 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-78	BH-78 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-79	BH-79 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-80	BH-80 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-81	BH-81 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-82	BH-82 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-83	BH-83 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-84	BH-84 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-85	BH-85 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-86	BH-86 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-87	BH-87 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-88	BH-88 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-89	BH-89 (15)	Solid	10/28/21 00:00	10/29/21 12:45	15
890-1502-90	BH90 (RS) (6)	Solid	10/28/21 00:00	10/29/21 12:45	6
890-1502-91	BH-91 (RS) (6)	Solid	10/28/21 00:00	10/29/21 12:45	6
890-1502-92	SW-1 (0-6)	Solid	10/25/21 00:00	10/29/21 12:45	0 - 6
890-1502-93	SW-2 (0-6)	Solid	10/25/21 00:00	10/29/21 12:45	0 - 6
890-1502-94	SW-3 (0-6)	Solid	10/25/21 00:00	10/29/21 12:45	0 - 6
890-1502-95	SW-4 (0-6)	Solid	10/25/21 00:00	10/29/21 12:45	0 - 6
890-1502-96	SW-5 (0-6)	Solid	10/25/21 00:00	10/29/21 12:45	0 - 6
890-1502-97	SW-6 (0-6)	Solid	10/25/21 00:00	10/29/21 12:45	0 - 6
890-1502-98	SW-7 (0-6)	Solid	10/26/21 00:00	10/29/21 12:45	0 - 6
890-1502-99	SW-8 (0-6)	Solid	10/26/21 00:00	10/29/21 12:45	0 - 6
890-1502-100	SW-9 (0-6)	Solid	10/26/21 00:00	10/29/21 12:45	0 - 6
890-1502-101	SW-10 (0-6)	Solid	10/26/21 00:00	10/29/21 12:45	0 - 6
890-1502-102	SW-11 (0-6)	Solid	10/26/21 00:00	10/29/21 12:45	0 - 6
890-1502-103	SW-12 (10)	Solid	10/26/21 00:00	10/29/21 12:45	10
890-1502-104	SW-13 (15)	Solid	10/26/21 00:00	10/29/21 12:45	15
890-1502-105	SW-14 (15)	Solid	10/26/21 00:00	10/29/21 12:45	15
890-1502-106	SW-15 (15)	Solid	10/26/21 00:00	10/29/21 12:45	15
890-1502-107	SW-16 (15)	Solid	10/26/21 00:00	10/29/21 12:45	15
890-1502-107	SW-17 (15)	Solid	10/26/21 00:00	10/29/21 12:45	15
550 1002-100	O 17 (10)	Joliu	10,20,21 00.00	10120121 12.40	

Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-1502-1

SDG: 212C-MD-02230

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1502-109	SW-18 (15)	Solid	10/26/21 00:00	10/29/21 12:45	15
890-1502-110	SW-19 (15)	Solid	10/26/21 00:00	10/29/21 12:45	15
890-1502-111	SW-20 (15)	Solid	10/26/21 00:00	10/29/21 12:45	15
890-1502-112	SW-21 (15)	Solid	10/26/21 00:00	10/29/21 12:45	15
890-1502-113	SW-22 (15)	Solid	10/26/21 00:00	10/29/21 12:45	15
890-1502-114	SW-23 (15)	Solid	10/26/21 00:00	10/29/21 12:45	15
890-1502-115	SW-24 (15)	Solid	10/26/21 00:00	10/29/21 12:45	15
890-1502-116	SW-25 (15)	Solid	10/26/21 00:00	10/29/21 12:45	15
890-1502-117	SW-26 (15)	Solid	10/26/21 00:00	10/29/21 12:45	15
890-1502-118	SW-27 (15)	Solid	10/26/21 00:00	10/29/21 12:45	15
890-1502-119	SW-28 (15)	Solid	10/26/21 00:00	10/29/21 12:45	15
890-1502-120	SW-29 (15)	Solid	10/26/21 00:00	10/29/21 12:45	15
890-1502-121	SW-30 (RS) (6)	Solid	10/28/21 00:00	10/29/21 12:45	6
890-1502-122	SW-31 (RS) (4)	Solid	10/28/21 00:00	10/29/21 12:45	4
890-1502-123	SW-32 (RS) (6)	Solid	10/28/21 00:00	10/29/21 12:45	6
890-1502-124	SW-33 (RS) (8)	Solid	10/28/21 00:00	10/29/21 12:45	8

Analysis Red	quest of Chain of Custody Record		_																		Pá	age			<u>1</u> o	f	13	11/10/2021
TŁ	Tetra Tech, Inc.		890-	1502	Chain	of C	Custody																					-
Client Name:	Permian Water Solutions	Site Manager	:	Cla	air Go	nza	les					AN.	ALY	SIS					~~	alfa.	, BA.	a é h	04	No.	1			
Project Name:	Kaiser SWD													1	1		e o		her	iny 	IASE	2 EIN		1		1		
Project Location: (county, state)	Lea County, New Mexico	Project #:			212C	-ME	D-022	30															lie†)	100				
HIVOICE TO:	Dusty McInturff - Permian Water Solutions												ARO)	5	윤	П							Park	<u> </u>				
Receiving Laborate Comments:	ory: Eurofins Xenco	Sampler Sign	ature:		Ezeq	uiel	More	10				<u>ه</u>	TPH 8015M (GRO-DRO-ORO-MRO)	Ph Cal	r Pb Se				25				Chloride Sulfate TDS General Water Chemistry (see attached list)	220				
Comments.												EX 8260 c C35)	DRO-	0 60	3a Cd C			624	8270C/625				TDS nistry (, se				
		SAME	PLING	M	ATRIX		PRESER!			SS.	(N/	BT (Ext	GRO	A A B	Ag As	S	olatiles	8260B / 624	Vol. 8	809	(\$(Sulfate	Balan				
LAB#	SAMPLE IDENTIFICATION	YEAR: 2020		-				П		AINE	ED (Y	X1005	15M (70C	etals /	olatile	emi V	Vol. 8	Semi	3082 /	spesto		Wat	ation				ထု
(LAB USE)		DATE	TIME	WATER	SOIL	걸	HNO ₃	None		# CONTAINERS	FILTERED (Y/N)	BTEX 8	трн 80	PAH 8270C	TCLP M	TCLP Volatiles	TCLP So	GC/MS	GC/MS	PCB's	NORM PLM (Asbestos)	Chloride	Chloride	Anion/Cation Balance			Hold	220 of 248
	BH-1 (6')	10/27/2021		$\overline{}$	Х		X					x	X				floor					X				\perp		220
	BH-2 (6')	10/27/2021			Х		X					Х	X					L	Ц			X	\perp	Ш		\perp		Page
	BH-3 (6')	10/27/2021			X		X		\perp			X	X						Ц		\perp	X		Ш	Ц	┸	_	Pa
	BH-4 (6')	10/27/2021			X		X					Х	X		L							X			Ц			
	BH-5 (6')	10/27/2021			X		X					Х	x									X	\perp	Ш	Ц			
	BH-6 (6')	10/27/2021			X		X					X	x									X		Ш	Ц	_		
	BH-7 (6')	10/27/2021			X		X					X	X									X		Ш	Ц	\perp		
	BH-8 (6')	10/27/2021			X		X					X	Х					┸			\perp	X	\perp	Ш	\sqcup			
	BH-9 (6')	10/27/2021			X		X					Х	X								丄	X		$oldsymbol{\perp}$	\sqcup	\perp	ot	ã
	BH-10 (6')	10/27/2021			X		X					x	x								\perp	X						
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TŁ	Tetra Tech, Inc.				1d, Fexa 32) 682	s 79705 -4559																			
					(432)	682-3946	Fax			_															
Client Name:	Permian Water Solutions	Site Manager		Clair G	onza	ales				1	ANA	LYS					en.	soi!	Far BA	lotk	nod	No	7		
Project Name:	Kaiser SWD									7		1		Cir	Cle		Sp:	L	y IV	len		140.	ΪL		
Project Location: (county, state)	Lea County, New Mexico	Project #:		212	C-M	D-022	30			┫															
Involce to:	Dusty McInturff - Permian Water Solutions	-										<u>@</u>	6	ş							1	thed iis			
Receiving Laboratory		Sampler Sign	ature:	Eze	quie	l More	no					- ORO - MRO)	Se H	Se l								апа			
Comments:	Eurofins Xenco									9090			d Cr Pb	S C P			C/625				TDS	ry (see			
		SAMI	PLING	MATR	x I	PRESE				PTEX 8	d to C35)	8015M (GRO - DRO	Total Metals Ag As Ba Cd Cr Pb Se Hg	As Ba	iles		GC/MS Vol. 8260B / 624 GC/MS Semi Vol. 8270C/625	8			ate T	General Water Chemistry (see attached list) Anion/Cation Balance			
		YEAR: 2020		111111	+	MET	HOD	\dashv	KERS	-	TX1005 (Ext to	<u>S</u>	s Ag /	ls Ag	Vola		826	2 / 60		Stos	Sulfate	ater on Ba			
LAB#	SAMPLE IDENTIFICATION			HH					IA I	g S	ΣĮ	3015	Metal	Meta	Sem		S Vol	808		Aste de	de	/Cati			
(LAB USE ONLY		DATE	TIME	WATER	Ş	HNO3	None		# CONTAINERS	RIEY SOME B	TPH	TPH 8015M	Total	TCLP	TCLP Semi Volatiles	<u>S</u>		PCB's	NORM	PLM (Asbestos) Chloride	Chloride	General Anion/Ca			Hold
	BH-11 (6')	10/27/2021		X		×	T			×		х								×				\perp	
	BH-12 (6')	10/27/2021		X		X				X		X				П				Х					\perp
	BH-13 (6')	10/27/2021		Х		×				×		X							Ш	X	Ш	\perp	Ш		\perp
	BH-14 (6')	10/27/2021		X		X				×		X				П				Х	Ш	\perp			
	BH-15 (6')	10/27/2021		Х		×				×		Х								X	Ш		Ш	\perp	
	BH-16 (6')	10/27/2021		Х		X				×		x								X	Ш				
	BH-17 (6')	10/27/2021		Х		X				×		X								X					
	BH-18 (6')	10/27/2021		Х		×				×		X					\perp		Ш	X	Ш			\perp	
	BH-19 (6')	10/27/2021		Х		×				×		X							Ш	X					
	BH-20 (6')	10/27/2021		X		×				×		Х								×		\bot		丄	
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Analysis Reque	st of Chain of Custody Record																			Pag	je		3.	of _	13	44/40/0004
TŁ	Tetra Tech, Inc.			Midla	nd,Tex	Street, Street	Fax																			•
Client Name:	Permian Water Solutions	Site Manager	:	Clair G	Gonz	zales					AN	ALY	'SIS		QUE								,			
Project Name:	Kaiser SWD										1			(C	ircl∈ 	e or	· Sp	ec 	ify	Met 	hoc	l No	.) 	1	1	
Project Location: (county, state)	Lea County, New Mexico	Project #:		212	2C-M	ИD-02	230															æ				
Invoice to:	Dusty McInturff - Permian Water Solutions											(Q)			П							ned lis				
Receiving Laboratory: Comments:	Eurofins Xenco	Sampler Sign	ature;	Eze	equie	el Mor	eno				90	TPH 8015M (GRO - DRO - ORO - MRO)	6	TCLP Metals Ag As Ba Cd Cr Pb Se Hg				525				General Water Chemistry (see attached list) Anion/Cation Balance				
		SAMI	PLING	MATR	ıv I		RVATIVE				BTEX 8260B	to - DRO		As Ba Cd		lles)B / 624	. 8270C/625			te TDS	hemistry				
LAB#	SAMPLE IDENTIFICATION	YEAR: 2020	LING	I I	1	MI	THOD	-	INERS	(V/N)	21B E	SM (GF	ည္က	als Ag	atiles	ıı Volat	ol. 826(S Semi. Vol.	700 / 200	estos)	Sulfate	Vater C				,
(LAB USE ONLY	SAMPLE IDENTIFICATION	DATE	TIME	WATER	<u> </u>	HCL HNO ₃	None		# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 82 TPH TX1005 (Ext to C35)	PH 8015	PAH 82700	CLP Met	TCLP Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol.	NORM	PLM (Asbestos)	Chloride	General Water Chemi			Hold	070 30 000
	BH-21 (6')	10/27/2021		X	-		x		44		x	Х			Ϊ	Ť	Ŭ	Ŭ,		-	(工		jè
	BH-22 (6')	10/27/2021		X			x				X	X		Т)	<		\coprod			
	BH-23 (6')	10/27/2021		X	Т		хП				Х	Х								>	<				L]
	BH-24 (6')	10/27/2021		Х			x T				X	X								\	<				\perp	
	BH-25 (15')	10/27/2021		Х			x				Х	х								>	<		Ш		\perp	1
	BH-26 (15')	10/27/2021		Х			x				X	Х)			Ш		\perp	
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Analysis Reque	est of Chain of Custody Record																			Pa	ige			<u>4</u> of	:	13	11/10/2021
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Client Name:	Permian Water Solutions	Site Manager:		Clair							AN	ALY	'SIS							2.0	*1	1.6	1 \				
Project Name:	Kaiser SWD										1,			(Ci	rcl	e o	rS	pec	city	Me	tho	A bo	10.)				
Project Location: (county, state)	Lea County, New Mexico	Project #:		21	12C-	MD-	-0223)			11											9					
Invoice to:	Dusty McInturff - Permian Water Solutions											ARO)	1	£ £								attached list)					
Receiving Laboratory:		Sampler Sign	ature:	E	zequ	uiel N	Moren)				ORO - MRO	ĺ	r Pb Se Hg				35				(see atta					
Comments:											X 8260B	DRO	13	TCLP Metals Ag As Ba Cd Cr Pb Se Hg			624	8270C/625			ĮĮ.	2 2					
		SAME	LING	MAT	RIX	Р	RESERV/ METHO		iRS	(N)	BTEX	GRO		Ag As Ba	S	olatiles	8260B /	Vol. 8	809/	os)	lfoto	er Che	Balan				
LAB#	SAMPLE IDENTIFICATION	YEAR: 2020		-					AIN	0	(8021B	8015M (8270C	etals	olatile	emi <	Vol.	Semi	3082	spest		Wat	ation				<u>~</u>
(LAB USE)		DATE	TIME	WATER		호	HNO ₃	None	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH 80	PAH 82	TCLP Metals	TCLP Volatiles	TCLP Semi Volatiles	GC/MS	GC/MS Semi. Vol. 8270C/	PCB's 8	PLM (Asbestos)	Chloride	Chloride Sulfate General Water Chemis	Anion/C			Hold	of 248
	BH-31 (15')	10/27/2021		X		П	Х				х	Х									х	I	\prod				223
	BH-32 (15')	10/27/2021		X			Х				Х	Х								oxdot	Х						Page
	BH-33 (15')	10/27/2021		Х			Х				Х	X		L						$oldsymbol{ol}}}}}}}}}}}}}}}}}}}}}$	х	\perp	Ш				<u>Б</u>
	BH-34 (15')	10/27/2021		Х			Х				X	X							\perp	\perp	Х	\perp					
	BH-35 (15')	10/27/2021		X			X				Х	Х									X		Ш			L	
	BH-36 (15')	10/27/2021		X		П	X		T		X	Х		Г							x		Ш				
	BH-37 (15')	10/27/2021		Х			X				Х	Х									х						
	BH-38 (15')	10/27/2021		Х			X				Х	Х									X	\perp	Ш	\bot			
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Tŧ	Tetra Tech, Inc.				Midla	vv vvaii ind,Texa (32) 682	s 79705	Fax																		
Client Name:	Permian Water Solutions	Site Manager:		Cla	air C	Gonz			-			AN	ALY	SIS						16.	N - A	اء ما	Ma	\		
Project Name:	Kaiser SWD											1,		ı	(6	Irci	ie o	rs	pec	П	wiet 	noa 	No.	.) 	I	l
Project Location: (county, state)	Lea County, New Mexico	Project #:			212	2C-M	D-02	230				11											£			
Invoice to:	Dusty McInturff - Permian Water Solutions]	MRO)	3	F								ched lis			
Receiving Laboratory	: Eurofins Xenco	Sampler Signa	iture:		Eze	equie	I Мо	reno					SRO-1	00 40	Pb Se				2				ee atta			
Comments:												K 8260B	171003 (EXTID C33) 8015M (GRO - DRO - ORO - MRO)	2	TCLP Metals Ag As Ba Cd Cr Pb Se Hg			624	GC/MS Semi. Vol. 8270C/625			TDS	General Water Chemistry (see attached list) Anion/Cation Balance			
		SAMP	LING	M	ATR	ıx		ERVAT	VE	85	(N)	BTEX	TPH 8015M (GRO - DRC	à	Ag As Ba	s	Volatiles	GC/MS Vol. 8260B / 624	Vol. 82	808	(S)	Sulfate	General Water Chemi Anion/Cation Balance			
LAB#	SAMPLE IDENTIFICATION	YEAR: 2020		- _~						AINE	ED C	021B	15M (70C	letals	olatile	emi V	Vol. 8	Semi.	78087	spesto	S	Wate			
(LAB USE)		DATE	TIME	WATE	SOIL	3	HNO3	No.		# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH 80	PAH 8270C	TCLPM	TCLP Volatiles	TCLP Semi \	GC/MS	GC/MS	PCB's 8082 / 608 NORM	PLM (Asbestos)	Chloride	Genera Anion/C			Hold
	BH-41 (15')	10/27/2021			Х			х				X	X	\perp		Ц			Ш	1	×	++		\sqcup	\bot	\perp
	BH-42 (15')	10/27/2021		+	Х			X	\perp	\perp		X	X	_	\perp	Ш	\perp	\perp	\sqcup	_	X		_	Н		ot
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	BH-45 (15')	10/27/2021		\rightarrow	Х	_		X.	_			X	X	4	_	Ш		\bot	\sqcup		×			\sqcup	_	\perp
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	BH-48 (15')	10/27/2021		\sqcup	Х		_	X	_	\perp		Х	X	1	_	Ц	_				X	1 1	_	\sqcup	\bot	\perp
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Client Name:	Permian Water Solutions	Site Manager:		Clair		2) 682-3 zales					AN	ALY	SIS	RE				200	oifi	/ Me	o é la	24	No	\		-
Project Name:	Kaiser SWD										1	1	I	(0)	I	0	1	he	эну	IAIG	III	Ju	IAO.	ĹΤ	ı	1
Project Location: (county, state)	Lea County, New Mexico	Project #:		21	2C-I	MD-0	2230)														1	110			
nvoice to:	Dusty McInturff - Permian Water Solutions		-									RO)		되모								Pod.	200			
Receiving Laboratory:		Sampler Signatu	re:	Ez	equi	iel Mo	oreno)				ORO - M		Po Se				5				ye the ne	atio			
Comments:											82608	ORO - (5 5 5			324	70C/62				SQL	c) i nell			
		SAMPLI	NG	MATE	RIX		SERVA METHO		SS.	<u> </u>	BTEX	GRO - I	PAH 8270C	lotal Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg	5	olatiles	2608 / 6	GC/MS Semi. Vol. 8270C/625	809	S)		Chloride Sulfate TDS	Balance			
LAB#	SAMPLE IDENTIFICATION	YEAR: 2020		~					AINE	ED (Y	021B	15M (70C	etals A	olatile	emi V	Vol. 8	Semi	3082 /	spesto		S	ation			
(LAB USE)		DATE	TIME	WATER SOIL		HCL HNO,	, E	None	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 82	TCLP M	TCLP Votatiles	TCLP Semi Volatiles	GC/MS Vol. 8260B / 624	GC/MS	PCB's 8082 / 608	PLM (A	Chloride	Chloride	Anion/Cation Balar			200
	BH-51 (15')	10/27/2021		Х			х				x	Х							\perp		X					L
	BH-52 (15')	10/27/2021		Х			X				X	Х			Ц			Ш	\perp	\perp	X	\perp		Ц	\perp	L
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	BH-54 (15')	10/27/2021		Х			X				X	X	\perp		Ц		L		\perp	\bot	X	\perp		Ц	\perp	L
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	BH-56 (15')	10/27/2021		Х			X				X	X	\perp		Ц		L	Ц	\perp	\perp	X	\perp			\perp	\perp
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TŁ	Tetra Tech, Inc.				Midlan	nd,Tex 32) 68	Street (as 797 32-4559 2) 682-3	05	00 Fax																		
Client Name:	Permian Water Solutions	Site Manager:		CI	lair G								AN	ALYS					0		c	0 41.	-54	NI.	V		
Project Name:	Kaiser SWD												1	11		(Cir	rCIE	e or	Sp	eci	ту м П	letr	100	No.	.) 	1	1
Project Location: (county, state)	Lea County, New Mexico	Project #:			212	C-N	MD-0)223	30															£			
Invoice to:	Dusty McInturff - Permian Water Solutions													MRO)	운	Нg								attached list)			
Receiving Laborato	ory: Eurofins Xenco	Sampler Signa	ature:		Eze	qui	el M	orer	10					SRO-	Pb Se	Pb Se				2				(see aft			
Comments:													X 8260B	GRO - DRO - ORO - MRO)	io po e	TCLP Metals Ag As Ba Cd Cr Pb Se Hg			624	8270C/625			12	2			
		SAMP	LING	N	MATRI	х	PR	ESER\ METH	ATIVE		RS	(N)	BTE (Ext to	GR0-	AS B	Ag As E	S	voianies	GC/MS Vol. 8260B /	Vol. 8.		(3)	Sulfate	ar Che Balan			
LAB#	SAMPLE IDENTIFICATION	YEAR 2020		-							PAINE	ED (X 8021B	8015M (Metals A	letals	olatile	em ·	Vol.	Semi. 8082 /		spesto	e S	Mation Sation			
(LAB USE ONLY		DATE	TIME	WATER	SOIL		걸	SE S	None		# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH 80	Total M	TCLP N	TCLP Volatiles	RCI	GC/MS	GC/MS Semi. Vol. 8 PCB's 8082 / 608	NORM	PLM (Asbestos) Chloride	Chloride	General Wate Anion/Cation			무용
	BH-61 (15')	10/27/2021		L	Х			Х					х	Х					Ш		\coprod	X	Ц		Ш		_
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	BH-68 (15')	10/28/2021		Τ	Х			X					Х	Х								X					
	BH-69 (15')	10/28/2021			Х			X					х	Х								X					
	BH-70 (15')	10/28/2021		Γ	Х			X					x	Х								X	Ш				
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Client Name:	Permian Water Solutions	Site Manager:		Cla	r Go	onzale	s					AN	ALY	SIS					na	nifu.	Man	tho	d No	0.1		
Project Name:	Kaiser SWD														1				her	ori y	1		11			1
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nvoice to:	Dusty McInturff - Permian Water Solutions												MRO)	1	Se Hg								General Water Chemistry (see attached list)			
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Comments:												X 8260B	8015M (GRO - DRO - ORO - MRO)	1	TCLP Metals Ag As Ba Cd Cr Pb Se Hg			624	GC/MS Semi. Vol. 8270C/625			TDS	nistry (s	e l		
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LAB#	SAMPLE IDENTIFICATION	YEAR: 2020								CONTAINERS	ED (Y	021B	15M (8270C	etals	olatile	emi V	Vol. 8	Semi.	8082 /	spesto		Wate	Cation		
(LAB USE)		DATE	TIME	WATER	SOIL	HCL	S E	None		# CON	FILTERED (Y/N)	BTEX 8021B BTEX 82	TPH 80	PAH 82	TCLP N	TCLP Volatiles	TCLP Semi	GC/MS Vol.	GC/MS	PCB's 8082 / 608	PLM (Asbestos)	Chloride	Genera	Anion/(Hold
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	BH-74 (15')	10/28/2021					X	Ш				X	X		\perp		\perp	_	\sqcup	4	$\perp \downarrow$	× L	\dashv	\bot	\sqcup	
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Analysis Req	quest of Chain of Custody Record																				Pa	age		!	<u>9</u> of		13	11/10/2021
æ	Tetra Tech, Inc.				Midland, Tel (432)	Texas) 682-4		Fax																				_
Client Name:	Permian Water Solutions	Site Manager		Cla	ir Go							Al	IAL	YSIS		QU							1.61					
Project Name:	Kaiser SWD											1,			(0	irci	le o	rS	pec	iry	Me	tno	d N	0.)				ı
Project Location: (county, state)	Lea County, New Mexico	Project #:			212C	-ME	D-022	30															÷.					
Invoice to: Receiving Laborato	Dusty McInturff - Permian Water Solutions ory: Eurofins Xenco	Sampler Sign	ature:		Ezeq	uiel	More	no					IPH 1X1005 (Ext to C35) TPH 8015M (GRO - DRO - ORO - MRO)		Pb Se Hg	P.			2				General Water Chemistry (see attached list)					
Comments:													C35)		a Cd Cr			1624	270C/62	8		SEE.	mistry (s	9				
		SAMF	PLING	MA	ATRIX	L	PRESER	VATIVE HOD		NERS	(Y/N)	18 BTE	1X1005 (Ext to 8015M (GRO -	ပ္	Is Ag As B	tiles	TCLP Semi Volatiles	I. 8260B /	mi. Vol. 8.	8082 / 608	estos)	Sulfate	Vater Cher	Anion/Cation Balance				φ
LAB #	SAMPLE IDENTIFICATION	DATE	TIME	WATER	SOIL	덛	HNO ₃	None		# CONTAINERS	FILTERED (Y/N)		TPH 1X10	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Sem	GC/MS Vol. 8260B	GC/MS Semi. Vol. 8270C/625	PCB's 80	PLM (Asbestos)	Chloride	General V	Anion/Cat			Hold	228 of 248
	BH-81 (15')	10/28/2021		\mathbf{T}	X		X					x	X	+-+		П						х						3 22
	BH-82 (15')	10/28/2021			X	T	X		\neg			x	X									х		\prod				Page
	BH-83 (15')	10/28/2021			х		X	П				x	X		T	П						х						Δ.
	BH-84 (15')	10/28/2021			X		X					X	X	П		П			П			x						
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	BH-86 (15')	10/28/2021			x		X	П				X	X	П	\top				П			Х						
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Client Name:	Permian Water Solutions	Site Manager:	C	Clair G						· · · · · · · · · · · · · · · · · · ·	AN	IAL	/SIS						<i>r</i>	1 0 × A		. 1.4.1.	,	
Project Name:	Kaiser SWD			=:							1,	1		(0	irci 	e o	r 5 	oeci 	ту г 	viet 	noc	No). 	
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nvoice to:			:								1	6										attached list)		
Receiving Laboratory:	Dusty McInturff - Permian Water Solutions	Sampler Signature:	·								11	MR	:	S E								fact		
Receiving Laboratory:	Eurofins Xenco	Camplet Olghature.		Eze	equi	iel M	oren	10				- ORO - MRO)		Pbs		ı		2		П		(see al		
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LAB#	COME DE DESTRICTOR	ш	0.17			ے ا	5	ا يو ا	Į N	ERE	×	× 8	82	P Me	P Vo	S S	MS V	MS S	≅	PLM (Ast	oride	General Anion/Ca		
ONLY		DATE	\d	SOIL		H H	핑	None) #	FILT	BTEX	H H	PAH	고	TCL	길	ပို့	S 2	NORM	를	<u>ਤੋਂ ਤ</u> ੋਂ	A Se		Ш
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	SW-3 (0-6')	10/25/2021		х			X				X	X	Ш	\perp					Ш		生	Ш	Ш	\sqcup
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Analysis Req	uest of Chain of Custody Record																				Page	е		11	of _	13
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Client Name:	Permian Water Solutions	Site Manager	:	Cla	air Go							AN	IALY	SIS										,		
Project Name:	Kaiser SWD	.										1	Į i		(Ci	rcl	e oi	r Sp	ec	ity N	rieti	100	l No	.) 	1	1
Project Location: (county, state)	Lea County, New Mexico	Project #:			2120	C-MI	D-02	230				11											æ			
Involce to:	Dusty McInturff - Permian Water Solutions												ARO)	9	g g								General Water Chemistry (see attached list) Anion/Cation Balance			
Receiving Laborato	ory: Eurofins Xenco	Sampler Sign	ature:		Ezeq	quiel	Мо	reno					RO-N	00 40	Pb Se								ee atta			
Comments:												(8260B	DRO-C	2	a Cd Cr			524	70C/62			TDS	nistry (s			
		SAMI	PLING	M	ATRIX			ERVATI ETHOD	VE	RS.	<u> </u>	BTE	17 1005 (EXT to C.55) 8015M (GRO - DRO - ORO - MRO)	Q V	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	s	Volatiles	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625 PCR's 8082 / 608	3	(S)	Sulfate	er Chen Balance			
LAB#	SAMPLE IDENTIFICATION	YEAR: 2020		_						AINE	ED (Y	3021B	15M (70C	letals	olatile	emi V	Vol. 8	Semi.	3	spesto	S e	Wate			
(LAB USE)		DATE	TIME	WATER	SOIL	로	HNO ₃	ICE None		# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 82	TPH 80	PAH 8270C	TCLP N	TCLP Volatiles	TCLP Semi	GC/MS	GC/MS	NORM	PLM (As Chloride	Chloride	Genera Anion/C			Hold
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	SW-12 (10')	10/26/2021			Х			Х				x	Х								X	'		Ц		
	SW-13 (15')	10/26/2021			Х			Х				х	Х							Ш	X		Ш	Ш		
	SW-14 (15')	10/26/2021			Х			Х				х	Х							Ш	Х			Ш		
	SW-15 (15')	10/26/2021			X			Х				x	х					П		Ш	X			Ш		
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Analysis Re	equest of Chain of Custody Record																		Ρί	age		1	<u>2</u> of		13	11/10/2021
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Client Name:	Permian Water Solutions	Site Manager	:	Clair	Gon:	zale	s				AN.	ALY					2	-:5	n BA.	ath	odl	No.1				
Project Name:	Kaiser SWD										1				cie) phe		1 1016		od f			. 1		
Project Location: (county, state)	Lea County, New Mexico	Project #:		21	2C-1	MD-(0223	0													ist)					
Invoice to:	Dusty McInturff - Permian Water Solutions											ARO)	þ	g P				П			ched	5				
Receiving Labora	atory: Eurofins Xenco	Sampler Sign	ature:	Ez	equi	iel M	loren	0			او	- ORO - MRO)	r Pb Se l	Sr Pb Se			25				see atta	225				
Comments:											EX 8260B	DRO	3a Cd C	Ba Cd (3 / 624 8270C/6			1 1	TDS	ige (
			PLING	MATI	RIX	PR	METH		ERS	(X/N)	B BTE	A (GRO	Ag As	s Ag As	Volatile		S S	2 / 608	stos)		Sulfate ater Che	on Balar			١	
LAB# (LAB USE ONLY)	SAMPLE IDENTIFICATION	YEAR. 2020 EL	TIME	WATER		HCL	ICE ICE	None	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTE TPH TX1005 (Ext to	TPH 8015M (GRO - DRO	PAH 8270C Total Metals	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Semi Volatiles	RCI	GC/MS Vol. 8 GC/MS Semi.	PCB's 8082	NORM PLM (Asbestos)		Chloride Sulfate TDS General Water Chemistry (see attached list)	Anion/Cation Balance			Hold	of 248
	SW-20 (15')	10/26/2021		Х			Х				х	x	I							Х	\prod	\coprod			_	231
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lient Name:	Permian Water Solutions	Site Manager	:	Cla	air Go		12-3946 les				-	Al	NAL	.YS	IS R										`		
oject Name:	Kaiser SWD											١,	ı	ı) 1	Cir I	cle	or	Spe	ecif	y M I I	leti	nod	No	-) - - -		1
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olce to:	Dusty McInturff - Permian Water Solutions										· · ·	1	2	2	원	위								ched lis			
ceiving Laboratory	: Eurofins Xenco	Sampler Sign	ature:		Ezeqı	uiel l	More	eno					2	0 0		Pb Se Hg								ee attac			
mments:												BTEX 8260B	(35)	2	g	ن ک ک ک			8270C/625				201 SQL	istry (s			
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LAB#	SAMPLE IDENTIFICATION	YEAR: 2020		~						CONTAINERS	ED (Y	3021B	X1005	8270C		Metals /	emi V		Vol. 8	8082 /	NORM DI M (Achaetae)	SDESTO	e S	Mate			
ONLY)		DATE	TIME	WATER	SOL	호	HNO ₃	None		WOO #	FILTERED (Y/N)	BTEX 8021B	TPH	PAH 8	Fotal Metals	TCLP Metals A	TCLP Semi Volatiles	RC.	GC/MS	PCB's	NORM IN	Chloride	Chloride	Genera Anion/			Hold
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Eurofins Xenco, Carlsbad

1089 N Canal St. Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



eurofins

Environment Testing America 11/10/2021

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Client Information (Sub Contract Lab)	Sampler Lab Krai										***************************************	Carr	ier Trad	cking i	lo(s)			COC No [.] 890-488 1	
Client Information (Sub Contract Lab) Client Contact: Shipping/Receiving	Phone			E-Mail									e of Ori					Page	
Company ⁻	l		····		a krai Accredi							ive	v Mex	dco				Page 1 of 14 Job#:	
Eurofins Xenco Address	In	· · · · · · · · · · · · · · · · · · ·			NELA	P - Lo	ouisia	ana N	NEL	AP - T	exas	·····						890-1502-1	
1211 W Florida Ave,	Due Date Requeste 11/4/2021	ed		ı					Ar	nalys	is Re	que	sted					Preservation Code:	
City Midland	TAT Requested (da	ıys)				Common September 1						T					Ø. 3	B NaOH	M Hexane N None
State Zip: TX, 79701						HE.												D Nitric Acid	O AsNaO2 P Na2O4S
Phone:	PO #:					Ę											1954 Pag 3	F MeOH	Q Na2SO3 R Na2S2O3 S H2SO4
432-704-5440(Tel) Email	WO#				<u>ş</u>	00		ride										H Ascorbic Acid	S H2SO4 T TSP Dodecahydrate U Acetone
					S 2	<u>}</u>		Chloride									2	J DI Water	V MCAA W pH 4-5
Project Name: Kaiser SWD	Project #: 88000039				ž Š	S.	ВТЕХ	EACH									taine		Z other (specify)
Site:	SSOW#					16NM	Calc BT	קסו ^{יר}									Conta	Other ·	
		Sample	Type (w	atrix =water =solld, /aste/oll,	Field Filtered Sample Perform MS/MSD (Yes	8016MOD_NM/8016NM_S_Prep (MOD) Full	8021B/6036FP_C	300_ORGFM_28D/DI_LEACH	Total_BTEX_GCV	8015MOD_Cale							Total Number of		
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab) вт=тів Preservation	CONTRACTOR CONTRACTOR		8	8	8	٢	8	_		1,			-		Special Ins	tructions/Note
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BH-2 (6) (890-1502-2)	10/27/21	Mountain	<u> </u>	Solid	+	$\frac{1}{x}$	X	X	X	x		+					1		**
BH-3 (6) (890-1502-3)	10/27/21	Mountain	 	Solid	+	X	X	X	Х	X	_	-	<u> </u>			-			
BH-4 (6) (890-1502-4)	10/27/21	Mountain	 	Solid	+	X	X	X	X	x	-		╁				4		
BH-5 (6) (890-1502-5)	10/27/21	Mountain		Solid	\dashv	X	Х	Х	X	x		+	╁──			_			
BH-6 (6) (890-1502-6)	10/27/21	Mountain		Solid	1	x	Х	х	Х	x		+	 				9		
BH-7 (6) (890-1502-7)	10/27/21	Mountain		Solid	1	X	х	х	Х	х		1					4		
BH-8 (6) (890-1502-8)	10/27/21	Mountain		Solid	T	х	х	х	Х	x							1		
BH-9 (6) (890-1502-9)	10/27/21	Mountain		Solid		х	Х	х	Х	х							1		
Note Since laboratory accreditations are subject to change Eurofins Xenco LLC maintain accreditation in the State of Origin listed above for analysis/tests/matrix to attention immediately If all requested accreditations are current to date return the	eing analyzed the sa	ampies must be	e shipped back to th	Eurofins 2	Xenco I	LLC lal	bcontr borato	act lab	orato ther in	ries. T nstructi	his sam ons will	ple ship be prov	ment is	s forwa	arded un anges to	der chai accred	in-of-c litation	custody If the laborator a status should be broug	y does not currently ght to Eurofins Xenco LLC
Possible Hazard Identification					Sa						nay be							ed longer than 1 r	
Unconfirmed Deliverable Requested I II III IV Other (specify)	Primary Deliver	able Rank 2	2		Sn		Returr				quirem		osal E	3y La	b		Arch	nive For	Months
Empty Kit Relinquished by		Date			Time			1	1107 02	0 110	quirent	CITES	Moth	od of	Shipmen				
Relinquished by	Date/Time	Date	Com	any	mile		A eived b	y /	1/	N		4	wieu.	ou or	Date/Tir	me «	CARRO	- <i>1</i>	Company
Relinquished by	Date/Time	M1	Com			Rese		<u> </u>	V	10	1	<u> W</u>	1	_	Date/Ti	me /	" C	71	Company
Relinquished by	Date/Time					$\perp \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$.,										¥	
	Date/Time Company						eiveld b	yy.		-					Date/Ti	lile.			Company
Custody Seals Intact: Δ Yes Δ No Custody Seal No						Cool	ler Ten	nperati	ure(s)) °C and	d Other	Remark	(8.	$\overline{\mathcal{Q}}$	11		7-	7	
																- 8			0.2/0.2/2.2-4

Eurofins Xenco, Carlsbad

1089 N Canal St Carlsbad NM 88220

Chain of Custody Record

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Environment Testing America 11/10/2021

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Phone 575-988-3199 Fax 575-988-3199																					Millerica
Client Information (Sub Contract Lab)	Sampler ⁻			4	PM amer	Jes	sica						C	arrier	Track	ing No	o(s)			COC No 890-488 2	
Client Contact. Shipping/Receiving	Phone			E-M	lail										f Origi					Page:	
Company				jes		credita	ations	Requ	uired ((See n	note)			ew N	Mexic	co				Page 2 of 14 Job#:	
Eurofins Xenco Address	Due Date Reques	ted			NE	ELAF	- Lo	ouisi	ana	NEL	AP -	Texas	;							890-1502-1	
1211 W Florida Ave	11/4/2021									Α	naly	sis R	Requ	est	ed					Preservation Code	
City [.] Midland	TAT Requested (c	iays):			28.40	1							T							A HCL B NaOH	M Hexane N None
State Zip. TX 79701					o Meeriloonale		Ŧ												and the con-	C Zn Acetate D Nitric Acid E NaHSO4	O AsNaO2 P Na2O4S Q Na2SO3
Phone: 432-704-5440(Tel)	PO#:) Full													F MeOH G Amchlor	R Na2S2O3 S H2SO4
Email	WO#				Or No	6	(MOE		Chloride											H Ascorbic Acid I Ice J - DI Water	T TSP Dodecahydrate U Acetone V MCAA
Project Name: Kaiser SWD	Project #* 88000039				(Yes	Z 5	Prep	×											iners	K EDTA L EDA	W pH 4-5 Z other (specify)
Site	SSOW#				- edu	ζes	NM_S	BTEX	1										onta	Other	Z Other (specify)
		T	1 1		Sar	MSD	/8015	Salo	28D/D	5	0			İ					9		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Ali	(i Field Filterer	Perform MS/	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8021B/6036FP	300_ORGFM_28D/DI_LEACH	Total_BTEX_GCV	8015MOD_Calc	and the ferror of each of each or ferror fer					***************************************		Total Number	Special Ins	structions/Note.
			Preserva	tion Code:	M	\times		Juli-vegen		L									X		
BH-10 (6) (890-1502-10)	10/27/21	Mountain		Solid			Х	х	х	x	х								1		
BH-11 (6) (890-1502-11)	10/27/21	Mountain		Solid			Х	х	х	х	х			T					1		
BH-12 (6) (890-1502-12)	10/27/21	Mountain		Solid			Х	х	х	х	x			\top	1		\top		1		
BH-13 (6) (890-1502-13)	10/27/21	Mountain		Solid	\top		Х	х	х	x	x		\top	\top	\top			\top	1		
BH-14 (6) (890-1502-14)	10/27/21	Mountain		Solid			Х	х	х	x	x			\top	+	\top	\top	+	1		
BH-15 (6) (890-1502 15)	10/27/21	Mountain		Solid	\parallel		х	х	x	x	Х		\top	\top	\top	1	\top	\top	1		- 1700
BH-16 (6) (890-1502-16)	10/27/21	Mountain		Solid	$\top 1$		х	Х	х	x	х			1	\dagger	\top		 	1		
BH-17 (6) (890-1502-17)	10/27/21	Mountain		Solid	T		Х	х	X	х	х		_	\top		\top	\top	1	1		
BH-18 (6) (890-1502-18)	10/27/21	Mountain		Solid	П		Х	Х	х	Х	х			\top	1	\top	<u> </u>		1		
Note Since laboratory accreditations are subject to change Eurofins Xenco LLC maintain accreditation in the State of Origin listed above for analysis/tests/matrix attention immediately If all requested accreditations are current to date return to	places the ownership being analyzed the s he signed Chain of Cu	o of method and amples must bustody attesting	alyte & accredit e shipped back to said complic	ation compliar to the Eurofin cance to Eurof	nce up ns Xen fins Xe	pon or nco LL enco I	ut sub LC lab	ocontr	act la	borato	ories. nstruc	his sar	mple sh	nipme ovide	ntisf d An	orward ly chan	led und	ler cha accred	in-of-c	custody If the laborato n status should be brou	ory does not currently aght to Eurofins Xenco LLC
Possible Hazard Identification Unconfirmed						San	- 1					nay b	_				ples a	re re	tain	ed longer than 1	month)
Deliverable Requested I II III IV Other (specify)	Primary Deliver	able Rank	2			Sne				Clier.		auirer			al By	Lab		<u> </u>	Arch	nive For	Months
Empty Kit Relinquished by		Date	***************************************		Tin	L.		A	A	71107 0		quiloi	HOHRO		lethoo	of Sh	ioment:				
Relinquished by	Date/Time	1	1	Company	1'"		Recei	iv e di b	1	1	A	1/\	17	<u>1</u>	9		ipment ate/Tim				Company
Relinquished by	Date/Time	····		Company			Pecei	ived b		1	XX		<u> </u>	7		D	ate/Tim	e.			Company
Relinquished by	Date/Time Company						Recei	ived b	DY.	··········							ate/Tim				Company
Custody Seals Intact: Custody Seal No										ture/e) °C or	d Other	r Rema	rke							
Δ Yes Δ No						ľ	20016	. 1011	pord	.cu 5(3)	, car	u oute	i ivelile	0.00							

Eurofins Xenco, Carlsbad

1089 N Canal St. Carlsbad NM 88220

Chain of Custody Record

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Environment Testing America 11/10/2021

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Phone 575-988-3199 Fax 575-988-3199																			
Client Information (Sub Contract Lab) Client Contact:	Sampler ⁻			Lab Pi Kram		Jessic	а					C	amier 1	racking	No(s)			COC No ⁻ 890-488 3	
Shipping/Receiving	Phone ⁻			E-Mail jessio		ramer	@eur	ofins	et co	m			tate of lew IV	Origin lexico	•••••			Page [.] Page 3 of 14	
Company Eurofins Xenco						editation					Теха	s						Job #: 890-1502-1	
Address 1211 W Florida Ave ,	Due Date Requeste 11/4/2021	ed							Δ	nalv	eie I	Regu	este	· d				Preservation Code:	S
City Midland	TAT Requested (da	ıys):				3			T								Jewa 3	B NaOH	M Hexane N None
State Zip TX 79701						Full TPH											Annual Market	D Nitric Acid E NaHSO4	O AsNaO2 P Na2O4S Q Na2SO3
Phone 432-704-5440(Tel)	PO# ⁻				1	D) Full		e e									- Open State of State	G Amchlor	R Na2S2O3 S H2SO4 T TSP Dodecahydrate
Email	WO#				s or No	(N) GB		Chloride									e	l Ice J Di Water	U Acetone V MCAA
Project Name: Kaiser SWD	Project # 88000039) (X	s or	Ĭ	EACH									containers		W pH 4-5 Z other (specify)
Site	SSOW#				dwe	SD (%	alc B	0/0/_	,			.						Other [.]	
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Type	Matrix N=water S=solid waste/oll, ssue, A=Air)	Field Filtered S	Perform MS/MSD (Yes or No.) 8015MOD NM/8015NM S Prep (MOD)	8021B/5035FP_Calc BTEX	300_ORGFM_28D/DI_LEACH	Total_BTEX_GCV	8015MOD_Calc							Total Number of	Special Ins	tructions/Note
	><	$\geq \leq$	Preservation	Code:	X	$\times\!\!\!\!\perp$	1000					7	A CONTRACTOR				X		
BH-19 (6) (890-1502-19)	10/27/21	Mountain		Solid		X	X	Х	Х	х							1		
BH 20 (6) (890-1502-20)	10/27/21	Mountain		Solid		х	х	Х	Х	х							1		
BH-21 (6) (890-1502-21)	10/27/21	Mountain		Solid		X	X	Х	Х	х							1		
BH-22 (6) (890-1502-22)	10/27/21	Mountain		Solid		X	X	х	х	X							1	200	
BH-23 (6) (890-1502-23)	10/27/21	Mountain		Solid	П	х	×	х	X	х			\top				1		
BH-24 (6) (890-1502-24)	10/27/21	Mountain		Solid		x	X	х	х	Х							1		
BH-25 (15) (890-1502-25)	10/27/21	Mountain		Solid		х	×	Х	х	Х							1		
BH-26 (15) (890-1502-26)	10/27/21	Mountain		Solid		Х	X	Х	х	х							1		
BH-27 (15) (890-1502-27)	10/27/21	Mountain		Solid		X	X	х	X	Х							1		
Note Since laboratory accreditations are subject to change Eurofins Xenco LLC pmaintain accreditation in the State of Origin listed above for analysis/tests/matrix battention immediately If all requested accreditations are current to date return the	eing analyzed the sa	amples must be	e shinned hack to th	e Furntine	Yenr	α II α I	ahorati	tract la	aborato other	ories instruc	This s	ample s vill be p	hipme	ntisfon I Anyo	warded u	inder cha to accre	ain-of-o ditation	custody If the laborator n status should be broug	y does not currently ght to Eurofins Xenco LLC
Possible Hazard Identification					1	Samp	le Dis	pos	al (A	fee	may	be as	sess	ed if s	ample	s are r	etain	ed longer than 1 r	nonth)
Unconfirmed Deliverable Requested II III IV Other (specify)	Primary Delivera	able Rank, 2	>		4	Specia	Retur				eaure		_	l By L	ab		Arci	hive For	Months
Empty Kit Relinquished by	**************************************	Date			Tim			//	Π.					ethod o	f Shipme	ent:			
Relinquished by	Date/Time		Com	pany	L	Re	ceived			1/		M	0	0	Date/	Time			Company
Relinquished by	Date/Time		Com	pany		Re	deived	by:		∠_ .}				←	Date/	Time ⁻			Company
Relinquished by	Date/Time		Com	pany		Re	ceived	by.							Date/	Time			Company
Custody Seals Intact.						Co	oler Te	mpera	ature(s	s)°Ca	nd Oth	er Ren	arks						

1089 N Canal St.

Carlsbad NM 88220

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Environment Testing America

11/10/2021

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Chain of Custody Record

Phone 575-988-3199 Fax 575-988-3199																		·	Alliciica
Client Information (Sub Contract Lab)	Sampler [.]				ab PM rame	ı er Je	essic	а					Carrie	r Trackin	g No(s)			COC No 890-488 4	
Client Contact: Shipping/Receiving	Phone				Mail.	a.kra	mer(@eur	ofins	et.co	om			of Origin)			Page. Page 4 of 14	
Company Eurofins Xenco								ıs Req Louisi				Texas						Job # 890-1502-1	
Address 1211 W Florida Ave	Due Date Requeste 11/4/2021	ed								A	naly	sis Req	ues	ted				Preservation Code	
City ⁻ Midland	TAT Requested (da	ays) [,]			3													B NaOH	M Hexane N None O AsNaO2
State Zip TX 79701							Ŧ										1000000	D Nitric Acid E NaHSO4	P Na2O4S Q Na2SO3
Phone: 432-704-5440(Tel)	PO# ⁻						D) Full											G Amchlor	R Na2S2O3 S H2SO4 T TSP Dodecahydrate
Email	WO#					ğ <u>9</u>	OM) q		Chloric									I Ice J DI Water	U Acetone V MCAA
Project Name Kaiser SWD	Project #: 88000039						S Pre	ВТЕХ	EACH								containers		W pH 4-5 Z other (specify)
Site	SSOW#						016NM	Calo B1	ם/סו	>							of con	Other [.]	
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time		Matrìx (W=water S=solid, O=waste/oli BT≃Tissue, A=	ı, Air) i	Perform MS/M	8015MOD_NM/8016NM_S_Prep (MOD) Full TPH	8021B/5035FP_C	300_ORGFM_28D/DI_LEACH Chloride	Total_BTEX_GCV	8015MOD_Calc						Total Number	Special Ins	tructions/Note
DI 00 (45) (000 4500 00)		<u>~</u>	Preserva	ition Code	- 12	¥Χ		1	1	1							\bowtie		
BH-28 (15) (890-1502-28)	10/27/21	Mountain		Solid	4	_	X	+	X	+	X						1		***************************************
BH-29 (15) (890-1502-29) BH-30 (15) (890-1502-30)	10/27/21	Mountain		Solid	4	_	X		X	X	X		_				1		·
BH-31 (15) (890-1502-31)	10/27/21	Mountain		Solid	\dashv	_	X	+	X	X	X						1	**************************************	
BH-32 (15) (890-1502-32)	10/27/21	Mountain		Solid	\dashv	_	X		X	X	X				11		1		
BH-33 (15) (890-1502-33)	10/27/21	Mountain		Solid	+	-	X		X	+	X						1		
BH-34 (15) (890-1502-34)	10/27/21	Mountain		Solid	\dashv	-	X		X	X	X						1		
BH-35 (15) (890-1502-35)	10/27/21	Mountain		Solid	+		X	-	X	X	X						1		
BH-36 (15) (890-1502-36)	10/27/21	Mountain Mountain		Solid Solid	+	-	X		X	X	X				-		1		
		L				_1_	Х		X		X				<u> </u>		1		
Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC maintain accreditation in the State of Origin listed above for analysis/tests/matrix to attention immediately If all requested accreditations are current to date, return the									ract la	aborato other i	ories. instruc	This sample tions will be	shipm provid	ent is for ed Any	warded u changes	inder chai to accred	in-of-ci litation	ustody If the laborator status should be broug	y does not currently ght to Eurofins Xenco LLC
Possible Hazard Identification																s are re	taine	ed longer than 1 n	nonth)
Unconfirmed Deliverable Requested J. H. H. IV. Other (agesita)								Retur				\Box_{D}	ispos	al By L	.ab		Arch	ive For	Months
Deliverable Requested II III IV Other (specify)	Primary Delivera	able Rank 2	2			Sp	ecia	l Instr	ructio	ons/G	QC Re	quiremen	its						
Empty Kit Relinquished by		Date			7	Гime		7	ī		_			Method c	f Shipme	ent:			and the second s
Relinquished by	Date/Time ⁻			Company			Rec	eived	БУ		V	M	0	R	Date/T	ime			Company
Relinquished by	Date/Time:			Company			Rec	ered	by.	4.	 _	<u> </u>			Date/T	ime			Company
Relinquished by	Date/Time:			Company			Rec	ejved	by.			· · · · · · ·			Date/T	ime [.]			Company
Custody Seals Intact Δ Yes Δ No	<u> </u>				************		Coo	ler Ter	mpera	ature(s	s) °C ar	d Other Rei	marks.		1	<u></u>			

Δ Yes Δ No

Eurofins Xenco, Carlsbad

1089 N Canal St.

Carlsbad NM 88220 Phone. 575-988-3199 Fax. 575-988-3199

Chain of Custody Record

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Environment Testing America 11/10/2021

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Client Information (Sub Contract Lab)	Sampler [.]			Lab P			_					Ca	mier Tr	cking	No(s)			COC No	
Client Contact:	Phone ⁻			E-Mai	ner J	essic	d					Sta	ate of C	riain				890-488 5 Page.	
Shipping/Receiving Company					ca kra								ew Me					Page 5 of 14	
Eurofins Xenco				i		ditation					Texas							Job # 890-1502-1	
Address	Due Date Requeste	d					-00101	una										Preservation Code	s
1211 W Florida Ave City	11/4/2021 TAT Requested (da	11(a):			: CO 507				A	naly	sis R	equ	estec					A HCL	M Hexane
Midland	TAT Requested (de	, yya j				4			ĺ								The state of the s		N None O AsNaO2
State Zip TX 79701						J E												D Nitric Acid	P Na2O4S
Phone	PO#:					F												F MeOH	Q Na2SO3 R Na2S2O3
432-704-5440(Tel)					اها	ğ		e									9900000		S H2SO4 T TSP Dodecahydrate
Email	WO#:				ءَ اعًا	٤		Chloride									- 1	l ice	U Acetone V MCAA
Project Name:	Project#					Pre		용									20	K EDTA	W pH 4-5
Kaiser SWD Site:	88000039 SSOW#:					S	BTEX	FA									contain		Z other (specify)
	330vv#.					2 6 S	Calo	ē	_								of	Other [.]	
			Samula M	atrix		8016MOD_NM/8016NM_S_Prep (MOD) Full TPH	F.	300_ORGFM_28D/DI_LEACH	Total_BTEX_GCV	<u>a</u>							Ser.		
			Type (v	/≈water		l g	5035	SGF _N	TEX	8							臺		
Sample Identification Client ID (Lat. ID)		Sample	(C≂Comp, 0=	≈solid vaste/oil,	Field F	9 J	8021B/5035FP	Ö	ig i	8015MOD_Calc							Total A		
Sample Identification - Client ID (Lab ID)	Lab ID) Sample Date Time G=gr						8	8	6	8			12-16 T-16-01-10	1			le,	Special Ins	tructions/Note
BH-37 (15) (890-1502-37)	40/07/04		Preservation	Acres of the second	P	<u> </u>	<u> </u>	<u> </u>	1				4		<u> </u>	4	X		
	10/27/21	Mountain		Solid	\coprod	X	X	X	X	Х									
BH-38 (15) (890-1502-38)	10/27/21	Mountain		Solid		X	X	X	X	х			1				1		
BH-39 (15) (890-1502-39)	10/27/21	Mountain		Solid		×	Х	х	Х	х							1		
BH-40 (15) (890-1502-40)	10/27/21	Mountain		Solid	П	×	X	х	х	х							1		*** - · · · · · · · · · · · · · · · · ·
BH-41 (15) (890-1502-41)	10/27/21	Mountain		Solid	П	х	x	х	х	х		1					1		
BH-42 (15) (890-1502-42)	10/27/21	Mountain		Solid		X	Х	х	х	х			T				1		
BH-43 (15) (890-1502-43)	10/27/21	Mountain		Solid		x	Х	х	Х	х							1		
BH-44 (15) (890-1502-44)	10/27/21	Mountain		Solid		x	Х	х	х	х							1		
BH-45 (15) (890-1502-45)	10/27/21	Mountain		Solid	П	X	х	х	х	х							4		
Note Since laboratory accreditations are subject to change Eurofins Xenco LLC p	laces the ownership	of method and	alyte & accreditation	complianc	e upor	n out si	ıbconti	ract la	borato	ries.	This sar	nple sh	ipment	is forw	arded un	der chai	n-of-c	sustody If the laborator	ry does not currently
maintain accreditation in the State of Origin listed above for analysis/tests/matrix b attention immediately If all requested accreditations are current to date return the								ory or	other i	nstruct	ions wil	l be pro	ovided	Any ch	nanges to	accredi	tation	status should be broug	ght to Eurofins Xenco LLC
Possible Hazard Identification									1/A	<u> </u>				1 25			4-1		
Unconfirmed					٦		Returi	-			nay b		esset posal		•			ed longer than 1 i nive For	Months
Deliverable Requested 1 II III IV Other (specify)	Primary Delivera	able Rank 2	2		s						quirer		oosar	Dy Le	iD .		Ai Gi	iive For	WORKIS
Empty Kit Relinquished by		Date			Time	,		۸ /					Met	nod of	Shipmen	t:	WEET TO SERVE		
Relinquished by:	Date/Time		Comp	any			eive d)	7 ^		^			Date/Tir				Company
Relinquished by		· · · · · · · · · · · · · · · · · · ·					1		1	1	\mathcal{U}	Δ.	L	was a second	- Department of the last of th				
	Date/Time.		Com	pany		Rec	eived	бу [.]			-				Date/Tir	me			Company
Relinquished by	Date/Time		Comp	any		Red	eived I	by.					·		Date/Tir	ne			Company
Custody Seals Intact: Custody Seal No						Cod	ler Tei	трега	iture(s)) °C ar	d Othe	r Rema	rks.		ــــــــــــــــــــــــــــــــــــــ				<u> </u>

Eurofins Xenco, Carlsbad

1089 N Canal St. Carlsbad NM 88220 Phone: 575-988-3199 Fax 575-988-3199

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:			Lab PM Kramei	r lo	ecico.					***************************************	Carrier	Tracki	ng No(s)			COC No	
Client Contact:	Phone			E-Mail	1 36	ssica	l 					State of	of Origin				890-488 6 Page.	
Shipping/Receiving Company				jessica									Mexic				Page 6 of 14	
Eurofins Xenco						itations				ote) NP - T	exas						Job #: 890-1502-1	
Address 1211 W Florida Ave	Due Date Request 11/4/2021	ed	1														Preservation Code	s
City ⁻	TAT Requested (d	ays):		2465	9 /	1	_	П	An	nalys	is Re	quest	ed		 	Lates		M Hexane
Midland State Zip:																		N None O AsNaO2
TX, 79701				, ,		표												P Na2O4S Q Na2SO3
Phone: 432-704-5440(Tel)	PO #:																F MeOH	R Na2S2O3 S H2SO4
Email	WO#			<u> </u>		9		ride					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				H Ascorbic Acid	T TSP Dodecahydrate
Project Name				ō	2	S)		Chloride								100	J DI Water	U Acetone V MCAA
Kaiser SWD	Project # 88000039			ر ر	šo	S Pr	×	ACH					ļ			tainers		W pH 4-5 Z other (specify)
Site	SSOW#				٤	Σ	с втех	=								Sont	Other	
		T			MS/MSD (Yes or	180	Calc	28D/I	5							5		
			Sample Mat	180	SE	8015MOD_NM/8015NM_S_Prep (MOD) Full	8021B/5035FP_	300_ORGFM_28D/DI_LEACH	Total_BTEX_GCV	8015MOD_Calc						Total Number		
		Sample	Type (W=w S=sc (C=comp, O=was	olid,	Perform	5MO	1B/60	8	<u> </u>	SMO						Ž		
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab) _{BT≃Tissu}	e, A≈Air)	E P	8	802	8	다.	801						ĕ	Special Ins	tructions/Note
		<i>></i> <	Preservation Co	ode: X	ΨX											\boxtimes		
BH-46 (15) (890-1502-46)	10/27/21	Mountain	So	lid		X	Х	х	х	х						4		
BH-47 (15) (890-1502-47)	10/27/21	Mountain	So	lıd		х	Х	х	х	х						1		
BH-48 (15) (890-1502-48)	10/27/21	Mountain	So	lid		х	х	х	х	х						1		
BH-49 (15) (890-1502-49)	10/27/21	Mountain	So	lid		х	х	х	Х	х						4		
BH-50 (15) (890-1502-50)	10/27/21	Mountain	So	lid		х	х	х	х	х						1		
BH-51 (15) (890-1502-51)	10/27/21	Mountain	So	lid		х	х	х	Х	х						1		
BH-52 (15) (890-1502-52)	10/27/21	Mountain	So	lid		Х	х	х	х	х						Ì		
BH-53 (15) (890-1502-53)	10/27/21	Mountain	So	lid		X	Х	х	х	х						1		
BH-54 (15) (890-1502-54)	10/27/21	Mountain	So			х	х	х	х	х						1		
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC p	laces the ownership	of method and	alyte & accreditation co	mpliance u	upon o	out sut	bcontra	act lab	orator	ies Th	is sampl	e shipm	ent is fo	rwarded	under cha	ain-of-	custody If the laborator	y does not currently
maintain accreditation in the State of Origin listed above for analysis/tests/matrix b attention immediately If all requested accreditations are current to date, return the	eing analyzed the so e signed Chain of Cu	stody attesting	to said complicance to	Eurofins Xe	enco L Kenco	LLC lar	oorato	ry or ot	ner in	structio	ns will be	provide	ed Any	change	s to accre	ditation	n status should be broug	Jht to Eurofins Xenco LLC
Possible Hazard Identification					Sa	mple	Dis	oosal	(A:	fee m	ay be a	ssess	ed if	sample	es are r	etain	ed longer than 1 n	nonth)
Unconfirmed								To C				Dispos					hive For	Months
Deliverable Requested II III IV Other (specify)	Primary Deliver	able Rank 2	2		Spe	ecial	Instru	uction	s/Q(C Req	uireme	nts					· · · · · · · · · · · · · · · · · · ·	
	npty Kit Relinquished by Date							and a				١	Nethod	of Shipm	nent.	· · · · · · · · · · · · · · · · · · ·		
Relinquished by	Compar	ıy		Rece	ived b	y // .		A	M	0	0	Date	/Time			Company		
Relinquished by	uished by Date/Time							y l	The state of the s		 	~		Date	/Time ⁻			Company
Relinquished by	Date/Time		Compar	У	***********	Rece	ved b	y.			~~~			Date	/Time			Company
Custody Seals Intact: Custody Seal No						Coole	er Tem	nperatu	ıre(s)	°C and	Other R	emarks						

1089 N Canal St.

Carlsbad NM 88220

Received by OCD: 8/28/2023 2:02:22 PM

11/10/2021

Eurofins Xenco, Carlsbad

Chain of Custody Record

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Environment Testing America

Phone. 575-988-3199 Fax 575-988-3199																					ATTICITOR .	
Client Information (Sub Contract Lab)	Sampler ⁻				PM amer	Jes	ssica						ľ	Carrie	r Track	ing No	0(8)	-		COC No 890-488 7		
Client Contact: Shipping/Receiving	Phone			E-N	/ail:										of Orig					Page:		_
Company.	<u> </u>	·		jes	SICA.				ired (New	Mexi	00				Page 7 of 14 Job#		
Eurofins Xenco Address		<u>.</u>									AP - '	Texa	s							890-1502-1		
1211 W Florida Ave	Due Date Requeste 11/4/2021	∌d								Aı	nalv	sis	Regi	uesi	ted					Preservation Code	s	
City Midland	TAT Requested (da	ıys)									ĺ					Т	Т			A HCL B NaOH	M Hexane N None	ĺ
State Zip						regen group	Ţ									1				C Zn Acetate D Nitric Acid	O AsNaO2 P Na2O4S	
TX 79701 Phone	PO#:				4		Full TPH								-					E NaHSO4 F MeOH	Q Na2SO3 R Na2S2O3	1
432-704-5440(Tel) Email					၂ွ		(MOD) F		e											G Amchlor H Ascorbic Acid	S H2SO4 T TSP Dodecahydr	ate
Email	WO#				Z S	9	p (MC		Chloride											l Ice J DIWater	U Acetone V MCAA	l
Project Name Kaiser SWD	Project #: 88000039				ᆲ	5	Prep.	×	Ā					1					ainen	K EDTA L EDA	W pH 4-5 Z other (specify)	1
Site	SSOW#				ᅴᇶ	اعًا	NM.	BTEX	3										Sonta	Other [,]		
			,		_\	MSD	/8015	Calc	3/Q8	5	٥			j		-			ঠ			
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid O=waste/oli, BT=Tissue, A=A	Field Fittered	Perform MS/N	8015MOD_NM/801	8021B/5035FP	300_ORGFM_28D/DI_LEACH	Total_BTEX_GCV	8015MOD_Calc								Total Number	Special Ins	structions/Note	
		><	Preserva	tion Code:	X	\boxtimes							day of the						X			
BH-55 (15) (890-1502-55)	10/27/21	Mountain		Solid	1		х	х	х	х	х								1			\neg
BH-56 (15) (890-1502-56)	10/27/21	Mountain		Solid			х	х	х	х	х							\top	4	gg.		
BH-57 (15) (890-1502-57)	10/27/21	Mountain	-	Solid	T		Х	Х	х	Х	х					\top	1	1	1			\dashv
BH-58 (15) (890-1502-58)	10/27/21	Mountain		Solid	1		Х	Х	х	Х	х						\top		1			一
BH-59 (15) (890-1502-59)	10/27/21	Mountain		Solid			Х	Х	x	Х	х				\top	\top			1			
BH-60 (15) (890-1502-60)	10/27/21	Mountain		Solid	T		Х	Х	х	Х	Х								1			\neg
BH-61 (15) (890-1502-61)	10/27/21	Mountain		Solid			Х	Х	х	х	х								4			
BH-62 (15) (890-1502-62)	10/27/21	Mountain		Solid	T		Х	Х	Х	Х	х								1			
BH-63 (15) (890-1502-63)	10/27/21	Mountain		Solid			Х	Х	Х	Х	х								7			
Note Since laboratory accreditations are subject to change Eurofins Xenco LLC maintain accreditation in the State of Origin listed above for analysis/tests/matrix t attention immediately If all requested accreditations are current to date return th								ocontr orato	act lat	borato other in	ries nstruct	This sations v	ample vill be p	shipm provid	ent is ed Ar	forwar ny chai	ded un nges to	der ch	ain-of- editation	custody If the laborato n status should be brou	ry does not currently ght to Eurofins Xenco	LLC
Possible Hazard Identification						San	nple	Dis	oosa	I (A	fee i	nay	be as	ses	sed i	sam	ples	are r	etain	ed longer than 1	month)	
Unconfirmed Deliverable Requested Other (specify)	D	bl- Day				L			1 To			L			sal By	Lab		L	J Arcl	hive For	Months	
	Primary Deliver	able Rank 2	2			Spe	ecial	Instr	uctio	ns/Q	C Re	quire	emen	ts								1
Empty Kit Relinquished by		Date			Tir	me		\cap	L	^	****			Ţ	Metho	of St	nipmen	t:		***************************************		
Relinquished by	Date/Time ⁻			Company			Rece	ived t	1	X	M	N	Q.	F)	C	Date/Ti	ne [.]			Company	\neg
Relinquished by	Date/Time			Company			Rece	ived b	by.		<u>× ₩</u>]	.	A 440	-	The state of the s	C	Oate/Tir	ne			Company	\dashv
Relinquished by	Date/Time			Company			Rege	ived b	oy.							C	Date/Ti	me			Company	\dashv
Custody Seals Intact. Custody Seal No Δ Yes Δ No			l				Coole	erTen	npera	ture(s)) °C ar	nd Oth	er Ren	narks		L	···				1	

1089 N Canal St

Carlsbad NM 88220

Eurofins Xenco, Carlsbad

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Environment Testing America

11/10/2021

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Phone 575-988-3199 Fax 575-988-3199																			Millerica	
Client Information (Sub Contract Lab)	Sampler ⁻			Lab F Krar	PM mer	Jess	sica				-	<u> </u>	Carrie	er Trackin	ig No(s)			COC No 890-488 8		
Client Contact: Shipping/Receiving	Phone			E-Ma	ail		***	euro!	finset	t cor	 m			of Origin				Page: Page 8 of 14		\dashv
Company Eurofins Xenco				F	Accr	reditat	tions R	Requir	ired (Se	See no		exas	<u> </u>	*****				Job #- 890-1502-1	***************************************	
Address 1211 W Florida Ave	Due Date Requeste 11/4/2021	d			T							is Red	aues	ted				Preservation Codes	j	
City Midland	TAT Requested (da	ys):			T		\top	T	T	Ť				164			T	B NaOH N		1
State, Zip: TX 79701						olhar-Miland	Full TPH										-	D Nitric Acid P E NaHSO4 C	Na2SO3	
Phone 432-704-5440(Tel)	PO#			· · · · · · · · · · · · · · · · · · ·		- Contraction of the Contraction	D) Full		9								American A		R Na2S2O3 B H2SO4 T TSP Dodecahy	udrata
Email	WO #:					Q.	ow) de		Chloric								ja l	lice U JDIWater V	J Acetone / MCAA	/drate
Project Name Kaiser SWD	Project #- 88000039					es or	S Pre	ВТЕХ	EACH								containers		V pH 4-5 2 other (specify)	
Site	SSOW#:				Samp	∑) as	016NM	Calc B	יס/סו ר	>							of con	Other [.]		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oll, BT=Tissue, A=Air)	Field Filtered	Perform MS/M		8021B/6035FP_C	300_ORGFM_28D/DI_LEACH Chloride	Total_BTEX_GCV	8015MOD_Calc						Total Number	Special Inst	ructions/Note	e:
		><	Preservation		M	X			1						11		文			de de parado a constante de
BH-64 (15) (890-1502-64)	10/27/21	Mountain		Solid			х	х	х	Х	х						1		the same of the sa	
BH-65 (15) (890-1502-65)	10/27/21	Mountain		Solid	\prod		х	х	х	х	х				1		1			
BH-66 (15) (890-1502-66)	10/27/21	Mountain		Solid	П		х	х	х	х	х						1			
BH-67 (15) (890-1502-67)	10/27/21	Mountain		Solid	\prod	\top	x	x	х	х	х	\top	\Box		11		1		***************************************	
BH-68 (15) (890-1502-68)	10/28/21	Mountain		Solid	П		х	x	х	Х	х				11		1			
BH-69 (15) (890-1502-69)	10/28/21	Mountain		Solid	\prod		х	х	х	Х	х		\Box				1			
BH-70 (15) (890-1502-70)	10/28/21	Mountain		Solid			х	х	х	х	x				11		1			
BH-71 (15) (890-1502-71)	10/28/21	Mountain		Solid			х	х	х	Х	х						1			
BH-72 (15) (890-1502-72)	10/28/21	Mountain		Solid	\prod		х	х	х	Х	х						1			
Note Since laboratory accreditations are subject to change Eurofins Xenco LLC p maintain accreditation in the State of Origin listed above for analysis/tests/matrix b attention immediately If all requested accreditations are current to date return the								contractory	ct labo y or ot!	orator her in	ries. Th	nis sampl ons will b	e shipm e provic	nent is fo ded Any	rwarded i	under chai s to accred	in-of-c ditation	sustody If the laboratory status should be brough	does not currently to Eurofins Xen	tly nco LLC
Possible Hazard Identification Unconfirmed						Sam	~~1	_							•			ed longer than 1 m	•	
Deliverable Requested I II III IV Other (specify)	Primary Delivera	able Rank 2	2		\dashv	Spec			To C uction			uireme		sal By i	Lab		Arch	hive For	Months	
Empty Kit Relinquished by		Date			Tim	ne [.]			^ i			·		Method	of Shipme	ient:				
Relinquished by	Date/Time		C	Company			Receive	vedb	H	7/1	T	100	7	1		/Time			Company	
Relinquished by	Date/Time		C	Company		F	Receive	Veli by	y y	12		11	<u>U</u>	4_	Date/	/Time ⁻			Company	
Relinquished by:	Date/Time		c	Company		F	Receiv	yed by	y .						Date/	/Time	-,		Company	
Custody Seals Intact. Custody Seal No Δ Yes Δ No	<u> </u>					C	Cooler	r Tem	peratu	ure(s)) °C and	Other R	emarks	3		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-			

Eurofins Xenco, Carlsbad

1089 N Canal St Carlsbad NM 88220

Chain of Custody Record

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Environment Testing America

11/10/2021

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Phone 575-988-3199 Fax 575-988-3199																					ranciica	
Client Information (Sub Contract Lab)	Sampler ⁻			Lab I Krai		Jess	sica						C	arrier	Tracki	ng No	(s)			COC No. 890-488 9		\neg
Shipping/Receiving	Phone			E-Ma Jess		rame	 er@e	urof	inset	.con	n				f Origin					Page: Page 9 of 14		
Company: Eurofins Xenco							tions R - Lou					Геха					•			Job #: 890-1502-1		
Address 1211 W Florida Ave	Due Date Requeste	ed			T										·····					Preservation Code:	3	
City:	11/4/2021 TAT Requested (da	ivs).			-			————		An	alys	Sis	Requ	est	ed				To begg		M Hexane	
Midland		.,,,,								İ	ļ								and the second		N None D AsNaO2	ı
State Zip: TX, 79701					- Angel	the state of the s	표												1	D Nitric Acid E NaHSO4	Na2O4S Q Na2SO3	
Phone 432-704-5440(Tel)	PO#-					7	() Fell		e e										97	G Amchlor	R Na2S2O3 B H2SO4 F TSP Dodecahydrat	
Email	WO#:				Or NC	3	D (MO		Chloride										S00	I ice	J Acetone / MCAA	•
Project Name Kaiser SWD	Project #				اعٌ٦	5	e	<u>,</u>	당										Her	K EDTA	N pH 4-5 Z other (specify)	
Site	88000039 SSOW#:				-를	8	S E	BIEX	9										containers	Other	- Carol (opeony)	
						QS)	3015	8	0/08	ا ج	į		l						d d			
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Type (Matrix W=water S=solid, =waste/oll, issue, A=Air	Field Filtered	Perform MS/N	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8021B/6036FP_Calo	300_ORGFM_28D/DI_LEACH	Total_BTEX_GCV	8015MOD_Calc					sierani earli earli earli earli earli earli earli earli earli ea			Total Number of	Special Inst	ructions/Note	
		\sim	Preservation		X	X					Ĩ								X	O/ACIGITIES	ractions/Note	_
BH-73 (15) (890-1502-73)	10/28/21	Mountain		Solid	Ħ		X .	х	Х	Х	Х							1	1			7
BH-74 (15) (890-1502-74)	10/28/21	Mountain		Solid	П		х .	x	х	х	х								1			一
BH-75 (15) (890-1502-75)	10/28/21	Mountain		Solid	П		X .	x	х	х	х								1			一
BH-76 (15) (890-1502-76)	10/28/21	Mountain		Solid	П		X .	x	х	х	х						7		1			┪
BH-77 (15) (890-1502-77)	10/28/21	Mountain		Solid	П		Х	х	х	х	х								1			
BH-78 (15) (890-1502-78)	10/28/21	Mountain		Solid	П		X I	х	х	х	х								1			
BH-79 (15) (890-1502-79)	10/28/21	Mountain		Solid			х	x	х	х	х								1			
BH-80 (15) (890-1502-80)	10/28/21	Mountain		Solid			х	х	Х	х	х								1			
BH-81 (15) (890-1502-81)	10/28/21	Mountain		Solid			х	х	Х	х	х								4			
Note Since laboratory accreditations are subject to change Eurofins Xenco LLC pmaintain accreditation in the State of Origin listed above for analysis/tests/matrix battention immediately If all requested accreditations are current to date return the	eino anaivzeo ine sa	ambies must be	shinned back to ti	ne Furntin	e Xan	colli	" lohor	ontrac	ct labo	orator ner in	ies T Istructi	'his sa ions w	mple s	hipme	entisfe ed An	orward y char	ded und	der cha accreo	in-of-o	custody If the laborator n status should be broug	y does not currently ht to Eurofins Xenco L	TC
Possible Hazard Identification						Sam	ple D	isp	osal	(A:	fee n	nay i	be as	sess	ed if	sam	ples	are re	etain	ed longer than 1 n	nonth)	ᅱ
Unconfirmed							-		То С			ב			al By					hive For	Months	
Deliverable Requested I II III IV Other (specify)	Primary Delivera	able Rank 2				Spec	cial In	stru	ction	s/Q0	C Re	quire	ment	s		***********						_
Empty Kit Relinquished by		Date			Tin	ne.		\mathcal{T}						Ν	Method	of Sh	ipment	t:				ᅱ
Relinquished by	Date/Time ⁻		Con	pany		F	Receive	didy	1//	N		1	$\overline{\gamma}$	0		D	ate/Tin	ne			Company	ᅦ
Relinquished by	Date/Time.		Con	pany		F	Receive	ed by	V	P		1 /	<i>!</i> \		<u> </u>	D	ate/ Tin	ne [.]			Company	ᅱ
Relinquished by	Date/Time		Com	pany		F	Receive	ed by								D	ate/Tin	ne			Company	
Custody Seals Intact: Custody Seal No		· · · · · · · · · · · · · · · · · · ·					Cooler	Temp	oeratu	re(s)	°C an	d Oth	er Rem	arks.	*********			************	*********			

Eurofins Xenco, Carlsbad

1089 N Canal St. Carlsbad NM 88220

Chain of Custody Record

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Environment Testing America

11/10/2021

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Phone 575-988-3199 Fax 575-988-3199																				rementes
Client Information (Sub Contract Lab)	Sampler				PM ame	r Je	ssica	1					C	Carrier T	racking	No(s)			COC No. 890-488 10	
Client Contact: Shipping/Receiving	Phone:				∕lail SSICa	krar	ner@	geurc	ofinse	et.cor	m			state of the					Page Page 10 of 14	
Company [.] Eurofins Xenco								s Requ				Геха	s						Job #: 890-1502-1	
Address 1211 W Florida Ave	Due Date Requeste 11/4/2021	ed			T					Δ.	nalv	eie I	2041	ıeste	<u></u>				Preservation Codes	š
City Midland	TAT Requested (da	ays):									laly	313 1	Vedi	16316		T			B NaOH I	M Hexane N None
State Zip ⁻ TX 79701							TPH.						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						D Nitric Acid F E NaHSO4 (O AsNaO2 P Na2O4S Q Na2SO3
Phone: 432-704-5440(Tel)	PO# ⁻				6		Prep (MOD) Full TPH		8										G Amchlor S	R Na2S2O3 S H2SO4 T TSP Dodecahydrate
Email	WO #				or N	9) d		Chioride										l ice (U Acetone V MCAA
Project Name Kaiser SWD	Project # ⁻ 88000039			***************************************		es or h	S_Pre	втех	EACH									containers		W pH 4-5 Z other (specify)
Site:	SSOW#:				amo	٩	16NM	Calc B	J O									otco	Other [.]	!
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab) B			Perform MS/MS	8015MOD_NM/8015NM_S	8021B/6036FP_C	300_ORGFM_28D/DI_LEACH	Total_BTEX_GCV	8015MOD_Calc							Total Number o	Special Inst	tructions/Note.
BH-82 (15) (890-1502-82)	40/00/04		Preservati	the burden products & St.	P	¥^	i de la composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della composition della comp								4-	1-1-		X		
BH-83 (15) (890-1502-62)	10/28/21	Mountain		Solid	+	-	X	X	X	Х	Х							1		
	10/28/21	Mountain		Solid	\downarrow	-	X	X	X	Х	Х							1		;
BH-84 (15) (890-1502-84)	10/28/21	Mountain		Solid	_	1_	X	X	Х	Х	Х							1		
BH-85 (15) (890-1502-85)	10/28/21	Mountain		Solid			X	X	Х	х	х							1		
BH-86 (15) (890-1502-86)	10/28/21	Mountain		Solid		L	X	X	х	х	х							4		
BH-87 (15) (890-1502-87)	10/28/21	Mountain		Solid			х	x	х	х	х							1		
BH-88 (15) (890-1502-88)	10/28/21	Mountain		Solid			х	х	Х	х	х							1		
BH-89 (15) (890-1502-89)	10/28/21	Mountain		Solid			х	х	х	х	х							1		
BH90 (RS) (6) (890-1502-90)	10/28/21	Mountain		Solid			х	х	х	х	х							1		
Note Since laboratory accreditations are subject to change Eurofins Xenco LLC maintain accreditation in the State of Origin listed above for analysis/lests/matrix t attention immediately If all requested accreditations are current to date return the								bcontr borato	act lai	borato other in	ories nstruct	his sa ions w	imple :	shipmer	it is fon Any o	warded ui changes t	nder cha to accred	in-of-c	custody If the laboratory in status should be broug	y does not currently tht to Eurofins Xenco LLC
Possible Hazard Identification Unconfirmed						Sa		-				nay I							ed longer than 1 n	*
Deliverable Requested I II III IV Other (specify)	Primary Deliver	able Rank 2	2			Sp		Returr Instr				quire		sposa s	I By L	ab		Arch	nive For	Months
Empty Kit Relinquished by	<u> </u>	Date	MRITTO	· · · · · · · · · · · · · · · · · · ·	ĪΤ	ime		^	Α	-	***********			Me	ethod o	f Shipme	nt.	***************************************		t and the second
Relinquished by	Date/Time		C	Company			Rece	eived b	W)	N	100	N	1	1 P	7	Date/T	ime [.]			Company
Relinquished by	Date/Time			Company			Rece	e Ved t	Dy.	*					-	Date/T	ime			Company
Relinquished by	Date/Time	×	c	Company			Rece	eived t	y.							Date/T	ime [.]			Company
Custody Seals Intact. Custody Seal No Δ Yes Δ No	<u> </u>						Cool	ler Ter	npera	ture(s)) °C ar	d Oth	er Ren	narks			***************************************			WWW.



10/25/21

10/25/21

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10/26/21

Mountain

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Mountain

Mountain

Mountain





Chain of Custody Record

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Environment Testing America

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Eurofins Xenco, Carlsbad

1089 N Canal St

Carlsbad NM 88220

SW-4 (0-6) (890-1502-95)

SW-5 (0-6) (890-1502-96)

SW-6 (0-6) (890-1502-97)

SW-7 (0-6) (890-1502-98)

SW-8 (0-6) (890-1502-99)

Phone 575-988-3199 Fax 575-988-3199																	
Olivert Information (Only One-tweet Lab)	Sampler [.]			Lab F				****************				Carrier	Tracking	No(s)			COC No.
Client Information (Sub Contract Lab)	D1				ner Je	ssica											890-488 11
Chieft Contact: Shipping/Receiving	Phone:			E-Ma				.					f Origin				Page:
Company:				jess	ica krai							New	Mexico				Page 11 of 14
Eurofins Xenco					Accred: NELA												Job#:
Address	Due Date Request				NELA	F - L	ouisia	ana r	VCL/	1P - I	exas						890-1502-1
1211 W Florida Ave	11/4/2021	Ba							Ar	alvs	is Re	quest	ed				Preservation Codes
City Midland	TAT Requested (d	Rys):															A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2
State Zip: TX 79701						표										Section Account	C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3
Phone: 432-704-5440(Tel)	PO#:		· · · · · · · · · · · · · · · · · · ·			OD) Full		9								-claimathan	F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate
Email	WO#				2 2 2	IOW) d		Chloride								4	I ice U Acetone J DI Water V MCAA
Project Name	Project #:				1815	8										ten	K EDTA W pH 4-5
Kaiser SWD	88000039				121 8	ဟ	ВТЕХ	Ě			- 1		- 1			183	L EDA Z other (specify)
Site	SSOW#				SD (7	015NM	Calc B1	28D/DI_LEACH	>							of containers	Other [.]
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oll, T=Tissue, A=Air)	Field Filtered Perform MS/M	8015MOD_NM/8	8021B/6036FP_(300_ORGFM_28	Total_BTEX_GCV	8015MOD_Calc						Total Number of	Special Instructions/Note
			Preservation	on Code:	XX						-				1	X	
BH-91 (RS) (6) (890-1502-91)	10/28/21	Mountain		Solid	П	Х	Х	х	Х	х			- Philippi			1	
SW-1 (0-6) (890-1502-92)	10/25/21	Mountain		Solid		х	х	х	Х	х						্র	
SW-2 (0-6) (890-1502-93)	10/25/21	Mountain		Solid		Х	Х	х	Х	х						1	
SW-3 (0-6) (890-1502-94)	10/25/21	Mountain		Solid	П	Y	Y	Y	Y	V						á	

Note Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.

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Possible Hazard Identification			Sample Disposal (A fee may	be assessed if samples are retained long	ger than 1 month)
Unconfirmed			Return To Client	Disposal By Lab Archive Fol	r Months
Deliverable Requested I II III IV Other (specify)	Primary Deliverable Rank 2		Special Instructions/QC Requi	rements	
Empty Kit Relinquished by	Date		Time ⁻	Method of Shipment:	
Relinquished by:	Date/Time	Company	Received by	M Date/Time	Company
Relinquished by	Date/Time ⁻	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time ⁻	Company
Custody Seals Intact: Custody Seal No Δ Yes Δ No			Cooler Temperature(s) °C and O	ther Remarks.	
					7.7 0.4 (0.0 (0.0 0.4

Eurofins Xenco, Carlsbad 1089 N Canal St.

Phone. 575-988-3199 Fax 575-988-3199

Carlsbad NM 88220

Chain of Custody Record

💸 eurofins

Environment Testing America

11/10/2021

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Client Information (Sub Contract Lab)	Sampler -				PM	r Je	ssica							Carrie	Track	ing N	lo(s)				COC No 390-488 12	
Client Contact:	Phone:			E-M	lail										of Origi						age.	
Shipping/Receiving Company	L			jes			mer@ tations							New	Mexic	0					Page 12 of 14	
Eurofins Xenco							P - Lo					Texa	as								390-1502-1	
Address 1211 W Florida Ave	Due Date Requeste 11/4/2021	d			T		***************************************			Δ	nalv	eie	Req	IDE	- he						Preservation Code	S
City Midland State, Zip	TAT Requested (da	ys)								<u> </u>		0.0		1					ľ		B NaOH C Zn Acetate	M Hexane N None O AsNaO2
TX 79701 Phone	PO#:						H H													E	E NaHSO4	P Na2O4S Q Na2SO3 R Na2S2O3
432-704-5440(Tel) Email	WO#						90		ige											Н	H Ascorbic Acid	S H2SO4 T TSP Dodecahydrate
					Jor No		E G		Chloride							l			e		J Di Water	U Acetone V MCAA
Project Name Kaiser SWD	Project #* 88000039				1	ŏ	ا م	X	ACH E										1			W pH 4-5 Z other (specify)
Site	SSOW#				Samole (Yes	٤	15NM	alc BTEX	٦										100	3 0	Other	
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	The state of the s	Eield Filtered	MSW E	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8021B/5035FP_Calc	300_ORGFM_28D/DI_LEACH	Total_BTEX_GCV	8015MOD_Calc								Total Wilmhous	Otal Number	Special Ins	tructions/Note
		\sim	Preserval	tion Code:	_2	ΨX													D	<		
SW-9 (0-6) (890-1502-100)	10/26/21	Mountain		Solid			Х	Х	Х	Х	Х								1	1		
SW-10 (0-6) (890-1502-101)	10/26/21	Mountain		Solid	١		х	Х	Х	Х	Х								-	1		
SW-11 (0-6) (890-1502-102)	10/26/21	Mountain		Solid	T	Π	х	Х	Х	Х	х					1			1	1		***************************************
SW-12 (10) (890-1502-103)	10/26/21	Mountain		Solid	T		х	Х	х	Х	х					1	一	\top	8	1		
SW-13 (15) (890-1502-104)	10/26/21	Mountain		Solid	\top	T	х	Х	Х	Х	х				\dashv	1	\top	1	1	1		
SW-14 (15) (890-1502-105)	10/26/21	Mountain		Solid	1	Г	х	Х	х	х	х				T	1	\exists		-	1		
SW-15 (15) (890-1502-106)	10/26/21	Mountain		Solid		T	х	Х	Х	Х	х				\top	1	\dashv		9	1		***************************************
SW-16 (15) (890-1502-107)	10/26/21	Mountain		Solid	\top	T	х	Х	Х	Х	х				1	\top			4	1		
SW-17 (15) (890-1502-108)	10/26/21	Mountain		Solid	T		х	Х	х	Х	х				寸		寸		ľ	1		
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC p maintain accreditation in the State of Origin listed above for analysis/tests/matrix b attention immediately If all requested accreditations are current to date return the								ocontr	act lab	oorato	ries nstruc	This s tions v	ample will be	shipm	entis I	orwa y cha	rded u	nder cl to accr	hain-o editati	of-cus	stody if the laborator tatus should be broug	y does not currently ght to Eurofins Xenco LLC
Possible Hazard Identification					*********	Sa						nay	be as	ses	sed if	sar	nple	are	retai	inea	d longer than 1 n	nonth)
Unconfirmed						Γ,	—J _R	eturr	To	Clien	t	Į	\Box_D	ispos	al By	Lat)	Ĺ	Ar	chiv	ve For	Months
Deliverable Requested I II III IV Other (specify)	Primary Delivera	able Rank 2	2			Sp	ecial l	Instr	uctio	ns/Q	C Re	quire	emen	ts								
Empty Kit Relinquished by		Date			T	ime		7	ام	_		-			Method	of S	hipme	nt.	-			
Relinquished by	Date/Time.		(Company			Recei	ived	X	N	AL	1	W		R		Date/T	ime [.]				Company
Relinquished by	Date/Time			Company			Recei	lved b	y,			-					Date/1	ime	HOIK.			Company
Relinquished by	Date/Time			Company			Resei	ved b	Ŋ.		·						Date/T	ime [.]		***************************************		Company
Custody Seals Intact: Custody Seal No			··················			***************************************	Coole	er Ten	nperat	ure(s)	°C ar	nd Oth	er Rer	narks.								

Carlsbad NM 88220

Eurofins Xenco, Carlsbad 1089 N Canal St

Phone 575-988-3199 Fax. 575-988-3199

Chain of Custody Record

Lab PM

Sampler

	Environment Testin
1	America

11/10/2021

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Client Information (Sub Contract Lab)	Sampler				ъм mer J	Jessica Carrier 1						Carrier Tracking No(s).						COC No ⁻ 890-488 13			
Client Contact: Shipping/Receiving	Phone			E-Ma	il.									of Orig					Page:		-
Company ⁻				Jess		amer@						!	New	Mexi	co				Page 13 of 14		_
Eurofins Xenco Address						AP - L					Геха	s							890-1502-1		l
1211 W Florida Ave	Due Date Requeste 11/4/2021	ed							Αı	naly	sis	Requ	ues	ted					Preservation Code		
City· Midland	TAT Requested (da	ys)													T			9	B NaOH	M Hexane N None O AsNaO2	
State, Zip TX 79701	j					표												Section 400 lists	D Nitric Acid E NaHSO4	P Na2O4S Q Na2SO3	
Phone: 432-704-5440(Tel)	PO#:					() Fee		e e										7	G Amchlor	R Na2S2O3 S H2SO4 T TSP Dodecahydra	
Email	WO#				N S	Q) a		Chloric										i din	l ice J Di Water	U Acetone V MCAA	le
Project Name Kaiser SWD	Project # 88000039				Se)	S Pre	втех	EACH										tainen		W pH 4-5 Z other (specify)	
Site	SSOW#:				Sample (Yes	SE C	Calc B	28D/DI_LEACH Chloride	>									of containers	Other [.]		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (w=water S=solid O=waste/oil,	leid Filkered	FETOTH MS/NSD (Tes of NO) 8016MOD_NM/8016NM_S_Prep (MOD) Full	8021B/6035FP_0	300_ORGFM_28	Total_BTEX_GCV	8015MOD_Calc								Total Number			
	Cample Date		Preservation	=Tissue, A=Air) on Code:	**	}	8	8	F	®		A COLUMN TO SERVICE SE						∜	Special Ins	tructions/Note	
SW-18 (15) (890-1502-109)	10/26/21	Mountain	- Sent Andrews Andrews	Solid	Ħ	Х	х	x	Х	х						+	-	1			
SW-19 (15) (890-1502-110)	10/26/21	Mountain		Solid	П	х	Х	х	х	х				1	\exists		1	1		***************************************	
SW-20 (15) (890-1502-111)	10/26/21	Mountain		Solid	П	х	Х	Х	Х	х								1			\neg
SW-21 (15) (890-1502-112)	10/26/21	Mountain		Solid	Π	Х	Х	Х	Х	x					7			1			\dashv
SW-22 (15) (890-1502-113)	10/26/21	Mountain		Solid	П	х	Х	х	Х	х								1			
SW-23 (15) (890-1502-114)	10/26/21	Mountain		Solid	П	х	Х	х	Х	х								1			\dashv
SW-24 (15) (890-1502-115)	10/26/21	Mountain		Solid	П	Х	Х	х	Х	х								1			
SW-25 (15) (890-1502-116)	10/26/21	Mountain		Solid	П	х	Х	х	Х	х								1			\neg
SW-26 (15) (890-1502-117)	10/26/21	Mountain		Solid	П	х	Х	Х	Х	х								1			
Note Since laboratory accreditations are subject to change Eurofins Xenco LLC p maintain accreditation in the State of Origin listed above for analysis/tests/matrix b attention immediately If all requested accreditations are current to date return the							bcontr borato	act lat	orato ther i	nies. T	This s	ample : vill be p	shipm	nent is led A	forwar ny cha	rded un	der cha	ain-of-o	custody If the laborator n status should be brough	ry does not currently ght to Eurofins Xenco	LLC
Possible Hazard Identification					Is	Sample	Dis	oosa	I (A	fee i	nay	be as	ses	sed i	f san	nples	are r	etain	ed longer than 1 i	month)	
Unconfirmed							Returr				<u>ר</u>	\Box_{D_l}	spos	sal By	/ Lab	,		Arci	nive For	Months	- 1
Deliverable Requested I II III IV Other (specify)	Primary Delivera	able Rank 2			S	pecial	Instr	uctio	ns/Q	C Re	quire	emen	ls								7
Empty Kit Relinquished by		Date			Time	9.		7i					Ī	Metho	d of S	hipmen	t:	***********		***************************************	
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Relinquished by	Date/Time		Co	ompany		Rec	eived t	oy.							1	Date/Ti	me [.]			Company	一
Custody Seals Intact.						Coo	er Ten	nperat	ure(s)) °C an	d Oth	er Ren	narks								\exists

Custody Seals Intact.

Δ Yes Δ No

Custody Seal No

Sampler

Phone.

Eurofins Xenco, Carlsbad

1089 N Canal St.

Client Contact: Shipping/Receiving

Carlsbad NM 88220

Phone 575-988-3199 Fax 575-988-3199

Client Information (Sub Contract Lab)

Chain of Custody Record

Lab PM

E-Mail

Kramer Jessica

COC No.

890-488 14

Carrier Tracking No(s)

State of Origin.

Environment Testing America

11/10/2021

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Shipping/Receiving			je:	ssica kr	rame	er@e	eurof	finse	t.con	n		Nev	v Mex	ico			P	age 14 of 14		
Company Eurofins Xenco									See no	ote)· NP - T	0V00			······				ob #:		
Address	Due Date Request	ed		INCL	_^_	- LU	uisia	lid i	NELF	\P' - 1	exas						_	90-1502-1		·
1211 W Florida Ave	11/4/2021								An	alys	is R	eque	sted				- 1		-	
City [.] Midland	TAT Requested (d	ays):			100	T]"	200		HCL NaOH	M Hexan	е
State, Zip.	1				100			1										Zn Acetate	O AsNaC	
TX 79701					7	Ŧ	1	1	ı							l f		Nitric Acid NaHSO4	P Na2O4 Q Na2SC	
Phone:	PO#				. Aller	3	1		}	1								MeOH Amchlor	R Na2S2	
432-704-5440(Tel) Email				_ 5		8		ide			1						1		S H2SO4	i odecahydrate
Citidal	WO #:				6	Ě		Chloride		.		1				ĺ.	1	lce Di Water	U Aceton V MCAA	
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Kaiser SWD	88000039			131	8	o,	Ĕ	EAC									Container	. EDA	Z other (s	specify)
Site	SSOW#			Sample (Yer	∑ SD (∆	Ž	10 B	آھ			- 1				1 1			ther [.]		
		T		 호 호	2	89	S	28D/	င္ထ	0							<u> </u>			
			Sample Matrix			Ž,	35.	N.	א	8,		ļ		}		2				
		S	Type (W=water S=solid,	圍	Ę	ğ	3/20	280	6	₽						ā	2			
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	(C=comp, O=waste/oil, G=grab)	Air) H	Perform	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8021B/5035FP_Calc BTEX	300_ORGFM_28D/DI_LEACH	Total_BTEX_GCV	8016MOD_Calc		ĺ				Jan III	8	ensaint In		- (5) - 4 -
		><	Preservation Code		݆	~	3		-	8						- 5	7	Special III	struction	S/NOte
SW-27 (15) (890-1502-118)	10/26/21	Mountain	Solid	Ħ	<u> </u>	х	х	Х	x	х							1		2000	
SW-28 (15) (890-1502-119)	10/26/21	Mountain	Solid	$\top\!$	\top	x	x	х	Х	х	\dashv	\top	f	\dashv	+	1	1			
SW-29 (15) (890-1502-120)	10/26/21	Mountain	Solid	$\top \!$	\top	x	x	x	X	x	+	+					1			
SW-30 (RS) (6) (890-1502-121)	10/28/21	Mountain	Solid	+	\top	x	х	х	х	x	+	+-	\dagger				1			
SW-31 (RS) (4) (890-1502-122)	10/28/21	Mountain	Solid	$\dagger \dagger$	\dagger	x	х	Х	х	x	\dashv	+	\Box	+	+	1	1			
SW-32 (RS) (6) (890-1502-123)	10/28/21	Mountain	Solid	\top	\top	x	х	х	х	х	十	\top		+		4	1			
SW-33 (RS) (8) (890-1502-124)	10/28/21	Mountain	Solid	\forall	\top	х	х	х	х	x	+	_				1	1			
				11	\top	7					_			\top			1			
				11							\top	\top		1						
Note Since laboratory accreditations are subject to change Eurofins Xenco LLC	places the ownership	of method and	alyte & accreditation compli	ance upo	on out	t subr	contra	ct lab	orator	ries T	nis san	nle shin	ment is	forward	ed under	chain-o	of_cus	stody. If the labora	ton, does not	currently
maintain accreditation in the State of Origin listed above for analysis/tests/matrix t attention immediately If all requested accreditations are current to date return th							orator	y or ot	ther in	structi	ons will	be prov	ided A	ny chan	ges to ac	creditati	ion s	tatus should be bro	ught to Euro	fins Xenco LL
	e signed Chain of Co	stody attesting	to said complicance to Eur																	
Possible Hazard Identification				8	Sam							7			oles ar	e retai	inec	l longer than 1	month)	
Unconfirmed									Chem			⁻ Disp∈	osal B	y Lab	L	Ar	chiv	re For	Month	าร
Deliverable Requested I II III IV Other (specify)	Primary Deliver	able Rank, 2	2	S	Spec	cial Ir	nstru	iction	ns/Q0	C Red	uiren	nents								
Empty Kit Relinquished by		Date		Tim	ie		//]	_/\					Metho	od of Shi	pment:	*************			Court Court Court	**************************************
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Relinquished by	Date/Time		Company		VR	Redeiv	ved by	7	<i></i> _			<i>~</i> =-¥		De	ate/Time				Company	****
Relinquished by	Date/Time		Company		F	Receiv	ved by	r				******		Da	ate/Time	······································			Company	

Cooler Temperature(s) °C and Other Remarks.

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-1502-1

SDG Number: 212C-MD-02230

Login Number: 1502 List Source: Eurofins Xenco, Carlsbad

List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-1502-1

SDG Number: 212C-MD-02230

List Source: Eurofins Xenco, Midland

List Creation: 11/01/21 08:46 AM

Login Number: 1502 List Number: 2 Creator: Kramer, Jessica

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6/2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

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<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2290-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Kaiser SWD

For:

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Clair Gonzales

MEAMER

Authorized for release by: 5/16/2022 4:19:28 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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Released to Imaging: 9/1/2023 2:55:43 PM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-2290-1 SDG: Lea County NM

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Definitions/Glossary

Client: Tetra Tech, Inc.

Job ID: 890-2290-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Qualifiers

GC VOA

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

 Qualifier
 Qualifier Description

 *1
 LCS/LCSD RPD exceeds control limits.

 F1
 MS and/or MSD recovery exceeds control limits.

 F2
 MS/MSD RPD exceeds control limits

S1+ Surrogate recovery exceeds control limits, high biased.
U Indicates the analyte was analyzed for but not detected.

HPLC/IC

F1 MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery

CFL Contains Free Liquid

CFU Colony Forming Unit

CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Carlsbad

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Case Narrative

Client: Tetra Tech, Inc.

Job ID: 890-2290-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Job ID: 890-2290-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2290-1

Receipt

The samples were received on 5/6/2022 3:23 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 11.8°C

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-25199/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-25199 and analytical batch 880-25231 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-25221 and analytical batch 880-25235 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Lab Sample ID: 890-2290-1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2290-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-92

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 14:33	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 14:33	•
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 14:33	
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/14/22 12:33	05/15/22 14:33	
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 14:33	
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/14/22 12:33	05/15/22 14:33	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	98		70 - 130			05/14/22 12:33	05/15/22 14:33	
1,4-Difluorobenzene (Surr)	103		70 - 130			05/14/22 12:33	05/15/22 14:33	
- Method: Total BTEX - Total BT	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/16/22 16:56	
Analyte Total TPH		Qualifier		Unit mg/Kg	D	Prepared	Analyzed	Dil Fa
Total TPH	522		50.0	ma/ka				
				mg/rtg			05/11/22 10:27	
Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)		mg/Kg			05/11/22 10:27	,
		RO) (GC) Qualifier	RL	Unit	D	Prepared	05/11/22 10:27 Analyzed	
Analyte		Qualifier	RL		<u>D</u>	Prepared 05/10/22 08:18		Dil Fac
Analyte	Result	Qualifier		Unit	<u>D</u>		Analyzed	Dil Fa
C6-C10 Diesel Range Organics (Over	Result <50.0	Qualifier	50.0	Unit mg/Kg	<u> </u>	05/10/22 08:18	Analyzed 05/10/22 13:54	Dil Fac
Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.0 346 176 %Recovery	Qualifier U	50.0 50.0 50.0 Limits	Unit mg/Kg mg/Kg	<u>D</u>	05/10/22 08:18 05/10/22 08:18 05/10/22 08:18 Prepared	Analyzed 05/10/22 13:54 05/10/22 13:54 05/10/22 13:54 Analyzed	Dil Fac
Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane (Surr)	Result <50.0 346 176	Qualifier U	50.0 50.0 50.0	Unit mg/Kg mg/Kg	<u>D</u>	05/10/22 08:18 05/10/22 08:18 05/10/22 08:18	Analyzed 05/10/22 13:54 05/10/22 13:54 05/10/22 13:54	Dil Fa
Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.0 346 176 %Recovery	Qualifier U	50.0 50.0 50.0 Limits	Unit mg/Kg mg/Kg	<u>D</u>	05/10/22 08:18 05/10/22 08:18 05/10/22 08:18 Prepared	Analyzed 05/10/22 13:54 05/10/22 13:54 05/10/22 13:54 Analyzed	Dil Fa
Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane (Surr)	Result <50.0 346 176	Qualifier U Qualifier	50.0 50.0 50.0 Limits 70 - 130	Unit mg/Kg mg/Kg	<u>D</u>	05/10/22 08:18 05/10/22 08:18 05/10/22 08:18 05/10/22 08:18 Prepared 05/10/22 08:18	Analyzed 05/10/22 13:54 05/10/22 13:54 05/10/22 13:54 Analyzed 05/10/22 13:54	Dil Fac
Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane (Surr) o-Terphenyl (Surr)	Result <50.0 346 176	Qualifier U Qualifier	50.0 50.0 50.0 Limits 70 - 130	Unit mg/Kg mg/Kg	<u>D</u>	05/10/22 08:18 05/10/22 08:18 05/10/22 08:18 05/10/22 08:18 Prepared 05/10/22 08:18	Analyzed 05/10/22 13:54 05/10/22 13:54 05/10/22 13:54 Analyzed 05/10/22 13:54	Dil Fac

Client Sample ID: BH-93 Lab Sample ID: 890-2290-2 Matrix: Solid

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/14/22 12:33	05/15/22 15:01	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/14/22 12:33	05/15/22 15:01	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/14/22 12:33	05/15/22 15:01	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		05/14/22 12:33	05/15/22 15:01	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/14/22 12:33	05/15/22 15:01	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		05/14/22 12:33	05/15/22 15:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			05/14/22 12:33	05/15/22 15:01	

Client: Tetra Tech, Inc. Job ID: 890-2290-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-93

Lab Sample ID: 890-2290-2 Date Collected: 05/06/22 00:00 Matrix: Solid

Date Received: 05/06/22 15:23 Sample Depth: 5

Method: 8021B - Volatile Organic Con	noounds (GC)	(Continued)
motifical collision of gains con	ipodiido (OO)	(Continuou,

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100	70 - 130	05/14/22 12:33	05/15/22 15:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00397	U	0.00397	mg/Kg			05/16/22 16:56	1

Method: 8015 NM - Diesel Range Organics (DRO)	GC)

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	145	49.9	ma/Ka			05/11/22 10:27	1

Method: 8015B NM - Diese	I Dongo Organica		\sim
i ivietiioa, ou lab ivivi - Diese	i Range Organics	IURUII	GC1

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9 U	49.9	mg/Kg		05/10/22 08:18	05/10/22 16:05	1
Diesel Range Organics (Over	62.5	49.9	mg/Kg		05/10/22 08:18	05/10/22 16:05	1
C10-C28)							
Oll Range Organics (Over	82.6	49.9	mg/Kg		05/10/22 08:18	05/10/22 16:05	1

C28-C36)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	122	70 - 130	05/10/22 08:18	05/10/22 16:05	1
o-Terphenvl (Surr)	113	70 - 130	05/10/22 08:18	05/10/22 16:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	976		24.9	mg/Kg			05/12/22 07:44	5

Client Sample ID: BH-94 Lab Sample ID: 890-2290-3

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Mathadi 0004D	Valatile Overen	ic Compounds (GC)
Memoo: Auzib	- voianie Urdan	ic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/14/22 12:33	05/15/22 15:28	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/14/22 12:33	05/15/22 15:28	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/14/22 12:33	05/15/22 15:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/14/22 12:33	05/15/22 15:28	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/14/22 12:33	05/15/22 15:28	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/14/22 12:33	05/15/22 15:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			05/14/22 12:33	05/15/22 15:28	1
4.4.0:0	100		70 400			05// //00 /000	05/45/00 45 00	

4-Bromofluorobenzene (Surr)	99	70 - 130	05/14/22 12:33	05/15/22 15:28	1
1,4-Difluorobenzene (Surr)	102	70 - 130	05/14/22 12:33	05/15/22 15:28	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/16/22 16:56	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)
--

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	412		50.0	mg/Kg			05/11/22 10:27	1

Eurofins Carlsbad

Matrix: Solid

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2290-1 SDG: Lea County NM

Lab Sample ID: 890-2290-3

Client Sample ID: BH-94

Date Collected: 05/06/22 00:00

Date Received: 05/06/22 15:23

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0	mg/Kg		05/10/22 08:18	05/10/22 14:16	1
Diesel Range Organics (Over	247		50.0	mg/Kg		05/10/22 08:18	05/10/22 14:16	1
C10-C28)								
Oll Range Organics (Over	165		50.0	mg/Kg		05/10/22 08:18	05/10/22 14:16	1
C28-C36)								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)			70 - 130			05/10/22 08:18	05/10/22 14:16	1
o-Terphenyl (Surr)	100		70 - 130			05/10/22 08:18	05/10/22 14:16	1
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-2290-4 **Client Sample ID: BH-95** Matrix: Solid

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 15:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 15:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 15:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/14/22 12:33	05/15/22 15:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 15:56	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/14/22 12:33	05/15/22 15:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			05/14/22 12:33	05/15/22 15:56	1
1,4-Difluorobenzene (Surr)	102		70 - 130			05/14/22 12:33	05/15/22 15:56	1
Method: Total BTEX - Total BT	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/16/22 16:56	1
Method: 8015 NM - Diesel Ran	ge Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	244		50.0	mg/Kg			05/11/22 10:27	1
<u>-</u>								
Method: 8015B NM - Diesel Ra	nge Organics (D	RO) (GC)						
	• •	RO) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	• •	Qualifier		Unit mg/Kg	<u>D</u>	Prepared 05/10/22 08:18	Analyzed 05/10/22 14:37	Dil Fac
Method: 8015B NM - Diesel Ra Analyte C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier			<u>D</u>			
Analyte C6-C10 Diesel Range Organics (Over	Result <50.0	Qualifier	50.0	mg/Kg	<u>D</u>	05/10/22 08:18	05/10/22 14:37	1
Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	Result <50.0 113	Qualifier U	50.0 50.0 50.0	mg/Kg mg/Kg	<u>D</u>	05/10/22 08:18 05/10/22 08:18 05/10/22 08:18 Prepared	05/10/22 14:37 05/10/22 14:37 05/10/22 14:37 Analyzed	1 1
Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 113	Qualifier U	50.0 50.0 50.0	mg/Kg mg/Kg	<u>D</u>	05/10/22 08:18 05/10/22 08:18 05/10/22 08:18	05/10/22 14:37 05/10/22 14:37 05/10/22 14:37	1

Matrix: Solid

Job ID: 890-2290-1

Lab Sample ID: 890-2290-4

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-95

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Method: 300.0 - Anions, Ion Chron	natography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3780		49.5	mg/Kg			05/12/22 08:00	10

Client Sample ID: BH-96 Lab Sample ID: 890-2290-5

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Analyte

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 16:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 16:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 16:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/14/22 12:33	05/15/22 16:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 16:23	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/14/22 12:33	05/15/22 16:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			05/14/22 12:33	05/15/22 16:23	1
1,4-Difluorobenzene (Surr)	102		70 - 130			05/14/22 12:33	05/15/22 16:23	1

Total BTEX	<0.00400	U	0.00400	mg/Kg			05/16/22 16:56	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	166		49.9	mg/Kg			05/11/22 10:27	1
Method: 8015B NM - Diesel Rang	ge Organics (Di	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9	mg/Kg		05/10/22 08:18	05/10/22 15:21	1
Diesel Range Organics (Over	55.3		49.9	mg/Kg		05/10/22 08:18	05/10/22 15:21	1

Unit

Prepared

Analyzed

Result Qualifier

C10-C28) Oll Range Organics (O C28-C36)	ver 111	49	9 mg/Kg	05/10/22 08:18	05/10/22 15:21	1
Surrogate	%Recovery	Qualifier Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107	70 - 130	_	05/10/22 08:18	05/10/22 15:21	1
o-Terphenyl (Surr)	95	5 70 ₋ 130		05/10/22 08:18	05/10/22 15:21	1

Method: 300.0 - Anions, Ion Chron	natography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1350		25.2	mg/Kg			05/12/22 08:08	5

Eurofins Carlsbad

Dil Fac

Lab Sample ID: 890-2290-6

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2290-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-97

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U	0.00198	mg/Kg		05/14/22 12:33	05/15/22 16:50	
Toluene	<0.00198	U	0.00198	mg/Kg		05/14/22 12:33	05/15/22 16:50	
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/14/22 12:33	05/15/22 16:50	
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		05/14/22 12:33	05/15/22 16:50	
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/14/22 12:33	05/15/22 16:50	
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		05/14/22 12:33	05/15/22 16:50	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	106		70 - 130			05/14/22 12:33	05/15/22 16:50	
1,4-Difluorobenzene (Surr)	101		70 - 130			05/14/22 12:33	05/15/22 16:50	
Method: Total BTEX - Total BTI	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00397	U	0.00397	mg/Kg			05/16/22 16:56	
Analyte Total TPH	Result 238	Qualifier	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/11/22 10:27	Dil Fa
• ***			45.5	mg/rtg			00/11/22 10.27	
Method: 8015B NM - Diesel Ra	• •		-		_			B.: E
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
C6-C10	<49.9	U	49.9	mg/Kg		05/10/22 08:18	05/10/22 14:59	
Diesel Range Organics (Over C10-C28)	97.6		49.9	mg/Kg		05/10/22 08:18	05/10/22 14:59	
Oll Range Organics (Over	140		49.9	mg/Kg		05/10/22 08:18	05/10/22 14:59	
C28-C36)				3. 3				
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil F
1-Chlorooctane (Surr)	108		70 - 130			05/10/22 08:18	05/10/22 14:59	
o-Terphenyl (Surr)	99		70 - 130			05/10/22 08:18	05/10/22 14:59	
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble						
Amalista	Pocult	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte	Result	Qualifici				Trepared	- Filaly 200	

Client Sample ID: BH-98 Lab Sample ID: 890-2290-7

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 17:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 17:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 17:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/14/22 12:33	05/15/22 17:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 17:16	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/14/22 12:33	05/15/22 17:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			05/14/22 12:33	05/15/22 17:16	1

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Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2290-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-98 Lab Sample ID: 890-2290-7

Date Collected: 05/06/22 00:00 Matrix: Solid
Date Received: 05/06/22 15:23

Sample Depth: 5

Method: 8021B - Volatile Org	anic Compounds	(GC) (Conti	nued)					
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100		70 - 130			05/14/22 12:33	05/15/22 17:16	1
– Method: Total BTEX - Total B	TEX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			05/16/22 16:56	1
– Method: 8015 NM - Diesel Ra	nge Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	102		50.0	mg/Kg			05/11/22 10:27	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0	mg/Kg		05/10/22 08:18	05/10/22 15:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/10/22 08:18	05/10/22 15:43	1
Oll Range Organics (Over C28-C36)	102		50.0	mg/Kg		05/10/22 08:18	05/10/22 15:43	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	117	70 - 130	05/10/22 08:18	05/10/22 15:43	1
o-Terphenyl (Surr)	108	70 - 130	05/10/22 08:18	05/10/22 15:43	1

Method: 300.0 - Anions, Ion Chrom	natography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2090	25.0	mg/Kg			05/12/22 13:33	5

Client Sample ID: BH-99

Date Collected: 05/06/22 00:00

Matrix: Solid

Date Received: 05/06/22 15:23

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/14/22 12:33	05/15/22 17:42	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/14/22 12:33	05/15/22 17:42	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/14/22 12:33	05/15/22 17:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/14/22 12:33	05/15/22 17:42	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/14/22 12:33	05/15/22 17:42	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/14/22 12:33	05/15/22 17:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			05/14/22 12:33	05/15/22 17:42	1
1,4-Difluorobenzene (Surr)	103		70 - 130			05/14/22 12:33	05/15/22 17:42	1
Method: Total BTEX - Total B	TEX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/16/22 16:56	1
- Method: 8015 NM - Diesel Rar	nge Organics (DR	O) (GC)						
	'	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

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05/11/22 10:27

50.0

mg/Kg

73.6

Total TPH

2

7

10

12

13

Lab Sample ID: 890-2290-8

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2290-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-99

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0	mg/Kg		05/10/22 08:18	05/10/22 16:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/10/22 08:18	05/10/22 16:26	1
Oll Range Organics (Over C28-C36)	73.6		50.0	mg/Kg		05/10/22 08:18	05/10/22 16:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130			05/10/22 08:18	05/10/22 16:26	1
o-Terphenyl (Surr)	96		70 - 130			05/10/22 08:18	05/10/22 16:26	1
– Method: 300.0 - Anions, Ion C	hromatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2860		24.9	mg/Kg			05/12/22 13:41	5

Lab Sample ID: 890-2290-9 **Client Sample ID: BH-100** Date Collected: 05/06/22 00:00 Matrix: Solid

Date Received: 05/06/22 15:23

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/14/22 12:33	05/15/22 18:09	1
Toluene	<0.00198	U	0.00198	mg/Kg		05/14/22 12:33	05/15/22 18:09	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/14/22 12:33	05/15/22 18:09	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		05/14/22 12:33	05/15/22 18:09	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/14/22 12:33	05/15/22 18:09	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		05/14/22 12:33	05/15/22 18:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			05/14/22 12:33	05/15/22 18:09	1
1,4-Difluorobenzene (Surr)	99		70 - 130			05/14/22 12:33	05/15/22 18:09	1
Method: Total BTEX - Total BT	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			05/16/22 16:56	1
Method: 8015 NM - Diesel Ran	ge Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	56.8		49.9	mg/Kg			05/11/22 10:27	1
Method: 8015B NM - Diesel Ra	inge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9	mg/Kg		05/10/22 08:18	05/10/22 16:49	1
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/10/22 08:18	05/10/22 16:49	1
C10-C28)								
Oll Range Organics (Over	56.8		49.9	mg/Kg		05/10/22 08:18	05/10/22 16:49	1
C28-C36)								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	106		70 - 130			05/10/22 08:18	05/10/22 16:49	1
o-Terphenyl (Surr)	96		70 - 130			05/10/22 08:18	05/10/22 16:49	1

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Released to Imaging: 9/1/2023 2:55:43 PM

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2290-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-100 Lab Sample ID: 890-2290-9

Date Collected: 05/06/22 00:00 Matrix: Solid
Date Received: 05/06/22 15:23

Sample Depth: 5

Method: 300.0 - Anions, Ion Chron	natography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5050	49.7	mg/Kg			05/12/22 13:49	10

Client Sample ID: BH-101 Lab Sample ID: 890-2290-10

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/14/22 12:37	05/14/22 18:28	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/14/22 12:37	05/14/22 18:28	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/14/22 12:37	05/14/22 18:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/14/22 12:37	05/14/22 18:28	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/14/22 12:37	05/14/22 18:28	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/14/22 12:37	05/14/22 18:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			05/14/22 12:37	05/14/22 18:28	1
1,4-Difluorobenzene (Surr)	101		70 - 130			05/14/22 12:37	05/14/22 18:28	1

Method: Total BTEX - Total BTEX C	alculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/16/22 16:56	1

Method: 8015 NM - Diesel Range Orgar	ics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/11/22 10:27	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U F1 F2	49.9	mg/Kg		05/10/22 08:18	05/10/22 12:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/10/22 08:18	05/10/22 12:49	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/10/22 08:18	05/10/22 12:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Mothod: 300.0 - Anions Jon Chromatogran	hy Soluble				
o-Terphenyl (Surr)	103	70 - 130	05/10/22 08:18	05/10/22 12:49	1
1-Chlorooctane (Surr)	105	70 - 130	05/10/22 08:18	05/10/22 12:49	1

metriod. 300.0 - Amons, for ornormatography - Goldbie									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	2460		24.8	mg/Kg			05/12/22 13:57	5

Client Sample ID: BH-102

Date Collected: 05/06/22 00:00

Lab Sample ID: 890-2290-11

Matrix: Solid

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	<0.00201	U	0.00201	mg/Kg		05/14/22 12:37	05/14/22 18:55	1

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Lab Sample ID: 890-2290-11

Client: Tetra Tech, Inc. Job ID: 890-2290-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-102

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00201	U	0.00201	mg/Kg		05/14/22 12:37	05/14/22 18:55	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/14/22 12:37	05/14/22 18:55	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/14/22 12:37	05/14/22 18:55	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/14/22 12:37	05/14/22 18:55	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/14/22 12:37	05/14/22 18:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			05/14/22 12:37	05/14/22 18:55	1
1,4-Difluorobenzene (Surr)	103		70 - 130			05/14/22 12:37	05/14/22 18:55	1
Method: Total BTEX - Total BTE	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/16/22 16:56	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/11/22 10:27	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0	mg/Kg		05/10/22 08:18	05/10/22 17:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/10/22 08:18	05/10/22 17:32	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/10/22 08:18	05/10/22 17:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	124		70 - 130			05/10/22 08:18	05/10/22 17:32	1
o-Terphenyl (Surr)	118		70 - 130			05/10/22 08:18	05/10/22 17:32	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	• • •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH-103

Date Collected: 05/06/22 00:00

Date Received: 05/06/22 15:23

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		05/14/22 12:37	05/14/22 19:21	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/14/22 12:37	05/14/22 19:21	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/14/22 12:37	05/14/22 19:21	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		05/14/22 12:37	05/14/22 19:21	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/14/22 12:37	05/14/22 19:21	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		05/14/22 12:37	05/14/22 19:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			05/14/22 12:37	05/14/22 19:21	1
1,4-Difluorobenzene (Surr)	104		70 - 130			05/14/22 12:37	05/14/22 19:21	1

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Lab Sample ID: 890-2290-12

Matrix: Solid

Job ID: 890-2290-1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

SDG: Lea County NM

Lab Sample ID: 890-2290-12

Client Sample ID: BH-103

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			05/16/22 16:56	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/11/22 10:27	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0	mg/Kg		05/10/22 08:18	05/10/22 17:54	1
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/10/22 08:18	05/10/22 17:54	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/10/22 08:18	05/10/22 17:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130			05/10/22 08:18	05/10/22 17:54	1
o-Terphenyl (Surr)	97		70 - 130			05/10/22 08:18	05/10/22 17:54	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7750		49.9	mg/Kg			05/12/22 14:30	10

Client Sample ID: BH-104 Lab Sample ID: 890-2290-13 Matrix: Solid

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/14/22 12:37	05/14/22 19:48	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/14/22 12:37	05/14/22 19:48	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/14/22 12:37	05/14/22 19:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/14/22 12:37	05/14/22 19:48	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/14/22 12:37	05/14/22 19:48	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/14/22 12:37	05/14/22 19:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			05/14/22 12:37	05/14/22 19:48	1
4 4 5 7 4 40 4	103		70 - 130			05/14/22 12:37	05/14/22 19:48	1
1,4-Difluorobenzene (Surr)	103		70 - 130			05/14/22 12.37	03/14/22 19.46	,
			70 - 130			05/14/22 12.5/	03/14/22 19.46	,
Method: Total BTEX - Total B1	ΓEX Calculation	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX	ΓEX Calculation			<mark>Unit</mark> mg/Kg	<u>D</u>			Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX	FEX Calculation Result <0.00398	U	RL		<u>D</u>		Analyzed	Dil Fac
Method: Total BTEX - Total BT Analyte	FEX Calculation Result <0.00398 nge Organics (DR	U	RL		<u>D</u>		Analyzed	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Rar	FEX Calculation Result <0.00398 nge Organics (DR	O) (GC) Qualifier	RL 0.00398	mg/Kg		Prepared	Analyzed 05/16/22 16:56	1
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Rar Analyte Total TPH	rex Calculation Result <0.00398 result Result <50.0	U O) (GC) Qualifier U		mg/Kg		Prepared	Analyzed 05/16/22 16:56 Analyzed	1
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Rar Analyte	TEX Calculation Result <0.00398 nge Organics (DR) Result <50.0 ange Organics (D	U O) (GC) Qualifier U		mg/Kg		Prepared	Analyzed 05/16/22 16:56 Analyzed	1

Lab Sample ID: 890-2290-13

05/12/22 14:38

Job ID: 890-2290-1

mg/Kg

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-104

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC) (C	Continued)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/10/22 08:18	05/10/22 18:15	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/10/22 08:18	05/10/22 18:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)			70 - 130			05/10/22 08:18	05/10/22 18:15	1
o-Terphenyl (Surr)	113		70 - 130			05/10/22 08:18	05/10/22 18:15	1
	omatography -	Soluble						
Analyte	0.,		RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH-105 Lab Sample ID: 890-2290-14 Date Collected: 05/06/22 00:00 Matrix: Solid

24.8

3010

Date Received: 05/06/22 15:23

Sample Depth: 5

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200		0.00200	mg/Kg		05/14/22 12:37	05/14/22 20:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 20:15	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 20:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/14/22 12:37	05/14/22 20:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 20:15	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/14/22 12:37	05/14/22 20:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			05/14/22 12:37	05/14/22 20:15	1
1,4-Difluorobenzene (Surr)	92		70 - 130			05/14/22 12:37	05/14/22 20:15	1
Method: Total BTEX - Total BT	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/16/22 16:56	1
- -			0.00399	mg/Kg			05/16/22 16:56	1
: Method: 8015 NM - Diesel Ran	ge Organics (DR	O) (GC)				Propared		
Method: 8015 NM - Diesel Rang Analyte	ge Organics (DR Result		RL	Unit	D	Prepared	Analyzed	Dil Fac
: Method: 8015 NM - Diesel Ran	ge Organics (DR	O) (GC)			D	Prepared		
Method: 8015 NM - Diesel Rang Analyte Total TPH	ge Organics (DR Result 176	O) (GC) Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	
Method: 8015 NM - Diesel Rang Analyte Total TPH Method: 8015B NM - Diesel Ra	ge Organics (DR Result 176 nge Organics (D	O) (GC) Qualifier	RL	Unit	<u>D</u>	Prepared Prepared	Analyzed	
Method: 8015 NM - Diesel Rang Analyte	ge Organics (DR Result 176 nge Organics (D	O) (GC) Qualifier RO) (GC) Qualifier	RL 49.9	Unit mg/Kg			Analyzed 05/11/22 10:27	Dil Fac
Method: 8015 NM - Diesel Rang Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte	ge Organics (DR Result 176 nge Organics (D Result	O) (GC) Qualifier RO) (GC) Qualifier	RL 49.9	Unit mg/Kg		Prepared	Analyzed 05/11/22 10:27 Analyzed	Dil Fac Dil Fac
Method: 8015 NM - Diesel Rang Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte C6-C10	ge Organics (DR Result 176 nge Organics (D Result <49.9	O) (GC) Qualifier RO) (GC) Qualifier	RL 49.9 RL 49.9	Unit mg/Kg Unit mg/Kg		Prepared 05/10/22 08:18	Analyzed 05/11/22 10:27 Analyzed 05/10/22 20:02	Dil Fac Dil Fac
Method: 8015 NM - Diesel Rang Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	ge Organics (DR Result 176 nge Organics (D Result <49.9	O) (GC) Qualifier RO) (GC) Qualifier	RL 49.9 RL 49.9	Unit mg/Kg Unit mg/Kg		Prepared 05/10/22 08:18	Analyzed 05/11/22 10:27 Analyzed 05/10/22 20:02	Dil Fac Dil Fac
Method: 8015 NM - Diesel Rang Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (DR Result 176 nge Organics (D Result <49.9 54.4	O) (GC) Qualifier RO) (GC) Qualifier	RL 49.9 RL 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 05/10/22 08:18 05/10/22 08:18	Analyzed 05/11/22 10:27 Analyzed 05/10/22 20:02 05/10/22 20:02	Dil Fac Dil Fac 1 1
Method: 8015 NM - Diesel Rang Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	ge Organics (DR Result 176 nge Organics (D Result <49.9 54.4	Qualifier RO) (GC) Qualifier U	RL 49.9 RL 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 05/10/22 08:18 05/10/22 08:18	Analyzed 05/11/22 10:27 Analyzed 05/10/22 20:02 05/10/22 20:02	Dil Fac Dil Fac 1 1 1
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (DR Result 176 nge Organics (D Result <49.9 54.4 122	Qualifier RO) (GC) Qualifier U	RL 49.9 RL 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 05/10/22 08:18 05/10/22 08:18 05/10/22 08:18	Analyzed 05/11/22 10:27 Analyzed 05/10/22 20:02 05/10/22 20:02 05/10/22 20:02	Dil Fac Dil Fac 1 1

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2290-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-105

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Client Sample ID: BH-106

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23 REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-2290-15

Lab Sample ID: 890-2290-14

Matrix: Solid

Matrix: Solid

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.400	U	0.400	mg/Kg		05/14/22 12:37	05/14/22 22:04	200
Toluene	<0.400	U	0.400	mg/Kg		05/14/22 12:37	05/14/22 22:04	200
Ethylbenzene	<0.400	U	0.400	mg/Kg		05/14/22 12:37	05/14/22 22:04	200
m-Xylene & p-Xylene	<0.800	U	0.800	mg/Kg		05/14/22 12:37	05/14/22 22:04	200
o-Xylene	<0.400	U	0.400	mg/Kg		05/14/22 12:37	05/14/22 22:04	200
Xylenes, Total	<0.800	U	0.800	mg/Kg		05/14/22 12:37	05/14/22 22:04	200
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			05/14/22 12:37	05/14/22 22:04	200
1,4-Difluorobenzene (Surr)	94		70 - 130			05/14/22 12:37	05/14/22 22:04	200

Analyte	Result Qualifier	KL	Ullit	U	riepareu	Allalyzeu	DII Fac
Total BTEX	<0.800 U	0.800	mg/Kg			05/16/22 16:56	1
 Method: 8015 NM - Diesel Range O	rganics (DRO) (GC)						

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	9690	249	mg/Kg			05/11/22 10:27	1	
Method: 8015B NM - Diesel Range	Organics (DRO) (GC)							
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	

C6-C10	412	249	mg/Kg	05/10/22 08:18	05/10/22 18:37	5
Diesel Range Organics (Over	7610	249	mg/Kg	05/10/22 08:18	05/10/22 18:37	5
C10-C28)						
Oll Range Organics (Over	1670	249	mg/Kg	05/10/22 08:18	05/10/22 18:37	5
C28-C36)						

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	110		70 - 130	05/10/22 08:1	8 05/10/22 18:37	5
o-Terphenyl (Surr)	105		70 - 130	05/10/22 08:1	8 05/10/22 18:37	5

Method: 300.0 - Anions, Ion Chroma	atography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	736	24.9	mg/Kg			05/12/22 16:27	5

Lab Sample ID: 890-2290-16

Client: Tetra Tech, Inc. Job ID: 890-2290-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-107

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 20:42	
Toluene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 20:42	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 20:42	
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/14/22 12:37	05/14/22 20:42	
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 20:42	
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/14/22 12:37	05/14/22 20:42	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	90		70 - 130			05/14/22 12:37	05/14/22 20:42	
1,4-Difluorobenzene (Surr)	98		70 - 130			05/14/22 12:37	05/14/22 20:42	
- Method: Total BTEX - Total BTE	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/16/22 16:56	
Method: 8015 NM - Diesel Rang Analyte Total TPH	•	Qualifier	RL 50.0	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/11/22 10:27	Dil Fa
Method: 8015B NM - Diesel Rar	nge Organics (D	RO) (GC)						
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
C6-C10	<50.0	U	50.0	mg/Kg		05/10/22 08:18	05/10/22 19:41	
	169		50.0	mg/Kg		05/10/22 08:18	05/10/22 19:41	
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	169 169		50.0 50.0	0 0		05/10/22 08:18 05/10/22 08:18		
C10-C28) Oll Range Organics (Over C28-C36)		Qualifier		mg/Kg			05/10/22 19:41	
C10-C28) Oll Range Organics (Over C28-C36) Surrogate	169	Qualifier	50.0	mg/Kg		05/10/22 08:18	05/10/22 19:41 05/10/22 19:41	Dil Fa
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane (Surr)	169 %Recovery	Qualifier	50.0	mg/Kg		05/10/22 08:18 Prepared	05/10/22 19:41 05/10/22 19:41 Analyzed	Dil Fa
C10-C28) Oll Range Organics (Over	169 **Recovery 113 99		50.0 Limits 70 - 130	mg/Kg		05/10/22 08:18 Prepared 05/10/22 08:18	05/10/22 19:41 05/10/22 19:41 Analyzed 05/10/22 19:41	Dil Fa
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane (Surr) o-Terphenyl (Surr)	%Recovery 113 99 romatography -		50.0 Limits 70 - 130	mg/Kg	D	05/10/22 08:18 Prepared 05/10/22 08:18	05/10/22 19:41 05/10/22 19:41 Analyzed 05/10/22 19:41	Dil Fa

Client Sample ID: BH-108 Date Collected: 05/06/22 00:00

Date Received: 05/06/22 15:23 Sample Depth: 5

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-2290-17

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.398	U	0.398	mg/Kg		05/14/22 12:37	05/14/22 22:31	200
Toluene	<0.398	U	0.398	mg/Kg		05/14/22 12:37	05/14/22 22:31	200
Ethylbenzene	<0.398	U	0.398	mg/Kg		05/14/22 12:37	05/14/22 22:31	200
m-Xylene & p-Xylene	<0.795	U	0.795	mg/Kg		05/14/22 12:37	05/14/22 22:31	200
o-Xylene	<0.398	U	0.398	mg/Kg		05/14/22 12:37	05/14/22 22:31	200
Xylenes, Total	<0.795	U	0.795	mg/Kg		05/14/22 12:37	05/14/22 22:31	200
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			05/14/22 12:37	05/14/22 22:31	200

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2290-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-108

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23 Sample Depth: 5 REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-2290-17

Matrix: Solid

Solid

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13

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130			05/14/22 12:37	05/14/22 22:31	200
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.795	U	0.795	mg/Kg			05/16/22 16:56	1
Method: 8015 NM - Diesel Rang	e Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	8980		250	mg/Kg			05/11/22 10:27	1
Method: 8015B NM - Diesel Rar	nge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<250	U	250	mg/Kg		05/10/22 08:18	05/10/22 18:58	5
Diesel Range Organics (Over	7670		250	mg/Kg		05/10/22 08:18	05/10/22 18:58	5
C10-C28)								
Oll Range Organics (Over	1310		250	mg/Kg		05/10/22 08:18	05/10/22 18:58	5
C28-C36)								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130			05/10/22 08:18	05/10/22 18:58	5
o-Terphenyl (Surr)	98		70 - 130			05/10/22 08:18	05/10/22 18:58	5
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1120		25.1	mg/Kg			05/12/22 16:44	- 5

Client Sample ID: BH-109

Date Collected: 05/06/22 00:00

Lab Sample ID: 890-2290-18

Matrix: Solid

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 21:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 21:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 21:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/14/22 12:37	05/14/22 21:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 21:09	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/14/22 12:37	05/14/22 21:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			05/14/22 12:37	05/14/22 21:09	1
1,4-Difluorobenzene (Surr)	105		70 - 130			05/14/22 12:37	05/14/22 21:09	1
Method: Total BTEX - Total B	ΓEX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/16/22 16:56	1
Method: 8015 NM - Diesel Rai	nge Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2290-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-109

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U	49.9	mg/Kg		05/10/22 08:18	05/10/22 20:24	1
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		05/10/22 08:18	05/10/22 20:24	1
C10-C28)								
Oll Range Organics (Over	86.4		49.9	mg/Kg		05/10/22 08:18	05/10/22 20:24	1
C28-C36)								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	117		70 - 130			05/10/22 08:18	05/10/22 20:24	1
o-Terphenyl (Surr)	109		70 - 130			05/10/22 08:18	05/10/22 20:24	1
- Method: 300.0 - Anions, Ion C	hromatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	946		25.0	mg/Kg			05/12/22 15:14	5

Client Sample ID: BH-110

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-2290-19

Lab Sample ID: 890-2290-18

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.402	U	0.402	mg/Kg		05/14/22 12:37	05/14/22 22:58	200
Toluene	<0.402	U	0.402	mg/Kg		05/14/22 12:37	05/14/22 22:58	200
Ethylbenzene	<0.402	U	0.402	mg/Kg		05/14/22 12:37	05/14/22 22:58	200
m-Xylene & p-Xylene	<0.805	U	0.805	mg/Kg		05/14/22 12:37	05/14/22 22:58	200
o-Xylene	<0.402	U	0.402	mg/Kg		05/14/22 12:37	05/14/22 22:58	200
Xylenes, Total	<0.805	U	0.805	mg/Kg		05/14/22 12:37	05/14/22 22:58	200
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130			05/14/22 12:37	05/14/22 22:58	200
1,4-Difluorobenzene (Surr)	96		70 - 130			05/14/22 12:37	05/14/22 22:58	200
Method: Total BTEX - Total BTI	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.805	U	0.805	mg/Kg			05/16/22 16:56	1
-								
Method: 8015 NM - Diesel Rang	•	, ,			_			
Analyte	Result	O) (GC) Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
	•	, ,		Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/11/22 10:27	
Analyte	Result 1660	Qualifier			<u>D</u>	Prepared		
Analyte Total TPH	Result 1660 nge Organics (D	Qualifier			<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: 8015B NM - Diesel Ra	Result 1660 nge Organics (D	Qualifier RO) (GC) Qualifier	50.0	mg/Kg	_ =		05/11/22 10:27	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rai Analyte	Result 1660 nge Organics (D Result	Qualifier RO) (GC) Qualifier	50.0	mg/Kg	_ =	Prepared	05/11/22 10:27 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rai Analyte C6-C10 Diesel Range Organics (Over C10-C28)	Result 1660 nge Organics (D Result <50.0	Qualifier RO) (GC) Qualifier	50.0 RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 05/10/22 08:18 05/10/22 08:18	05/11/22 10:27 Analyzed 05/11/22 07:03 05/11/22 07:03	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rai Analyte C6-C10 Diesel Range Organics (Over	Result 1660 nge Organics (D Result <50.0	Qualifier RO) (GC) Qualifier	50.0 RL 50.0	mg/Kg Unit mg/Kg	_ =	Prepared 05/10/22 08:18	05/11/22 10:27 Analyzed 05/11/22 07:03	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rai Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	Result 1660	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 05/10/22 08:18 05/10/22 08:18	05/11/22 10:27 Analyzed 05/11/22 07:03 05/11/22 07:03	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rai Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 1660	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 05/10/22 08:18 05/10/22 08:18	05/11/22 10:27 Analyzed 05/11/22 07:03 05/11/22 07:03	Dil Fac

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2290-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-110

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23 REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-2290-19

Matrix: Solid

Sample Depth: 5

Method: 300.0 - Anions, Ion Chron	natography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	577	25.2	mg/Kg			05/12/22 16:52	5

Client Sample ID: BH-111 Lab Sample ID: 890-2290-20

Date Collected: 05/06/22 00:00

Date Received: 05/06/22 15:23

Matrix: Solid

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00202	U	0.00202	mg/Kg		05/14/22 12:37	05/14/22 21:36	
Toluene	<0.00202	U	0.00202	mg/Kg		05/14/22 12:37	05/14/22 21:36	
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/14/22 12:37	05/14/22 21:36	
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		05/14/22 12:37	05/14/22 21:36	
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/14/22 12:37	05/14/22 21:36	
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		05/14/22 12:37	05/14/22 21:36	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	100		70 - 130			05/14/22 12:37	05/14/22 21:36	
1,4-Difluorobenzene (Surr)	100		70 - 130			05/14/22 12:37	05/14/22 21:36	
Method: Total BTEX - Total BT	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00404	U	0.00404	mg/Kg			05/16/22 16:56	
Method: 8015 NM - Diesel Ran	ge Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	64.3		49.9	mg/Kg			05/11/22 10:27	
Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
C6-C10	<49.9	U	49.9	mg/Kg		05/10/22 08:18	05/10/22 20:45	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/10/22 08:18	05/10/22 20:45	
Oll Range Organics (Over C28-C36)	64.3		49.9	mg/Kg		05/10/22 08:18	05/10/22 20:45	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane (Surr)	103		70 - 130			05/10/22 08:18	05/10/22 20:45	
o-Terphenyl (Surr)	94		70 - 130			05/10/22 08:18	05/10/22 20:45	
Method: 300.0 - Anions, Ion C	hromatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	3640		25.1	mg/Kg			05/12/22 15:24	

Lab Sample ID: 890-2290-21

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2290-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-112

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		05/14/22 12:37	05/15/22 00:44	
Toluene	<0.00202	U	0.00202	mg/Kg		05/14/22 12:37	05/15/22 00:44	•
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/14/22 12:37	05/15/22 00:44	•
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		05/14/22 12:37	05/15/22 00:44	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/14/22 12:37	05/15/22 00:44	•
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		05/14/22 12:37	05/15/22 00:44	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	87		70 - 130			05/14/22 12:37	05/15/22 00:44	1
1,4-Difluorobenzene (Surr)	92		70 - 130			05/14/22 12:37	05/15/22 00:44	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			05/16/22 16:56	1
Method: 8015 NM - Diesel Range Analyte	Result	Qualifier	RL_	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	362		50.0	mg/Kg			05/11/22 10:27	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	362	*1	50.0	mg/Kg		05/09/22 16:33	05/10/22 19:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/09/22 16:33	05/10/22 19:05	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/09/22 16:33	05/10/22 19:05	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane (Surr)	116		70 - 130			05/09/22 16:33	05/10/22 19:05	1
o-Terphenyl (Surr)	123		70 - 130			05/09/22 16:33	05/10/22 19:05	
Marthada 000 o Antana Isra Obra	omatography -	Soluble						
Method: 300.0 - Anions, Ion Chro	matography -							
Method: 300.0 - Anions, ion Chro Analyte	0 . ,	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH-113

Date Collected: 05/06/22 00:00

Date Received: 05/06/22 15:23

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/14/22 12:37	05/15/22 01:10	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/14/22 12:37	05/15/22 01:10	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/14/22 12:37	05/15/22 01:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/14/22 12:37	05/15/22 01:10	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/14/22 12:37	05/15/22 01:10	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/14/22 12:37	05/15/22 01:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			05/14/22 12:37	05/15/22 01:10	1
1,4-Difluorobenzene (Surr)	102		70 - 130			05/14/22 12:37	05/15/22 01:10	1

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Matrix: Solid

Lab Sample ID: 890-2290-22

2

3

5

10

10

Lab Sample ID: 890-2290-22

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2290-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-113

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/16/22 16:56	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/11/22 10:27	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U *1	50.0	mg/Kg		05/09/22 16:33	05/10/22 19:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/09/22 16:33	05/10/22 19:27	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/09/22 16:33	05/10/22 19:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130			05/09/22 16:33	05/10/22 19:27	1
o-Terphenyl (Surr)	108		70 - 130			05/09/22 16:33	05/10/22 19:27	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	942		4.97	mg/Kg			05/12/22 13:09	

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 890-2290-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recover
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-2290-1	BH-92	98	103	
390-2290-2	BH-93	96	100	
390-2290-3	BH-94	99	102	
390-2290-4	BH-95	99	102	
390-2290-5	BH-96	107	102	
390-2290-6	BH-97	106	101	
390-2290-7	BH-98	103	100	
390-2290-8	BH-99	113	103	
390-2290-9	BH-100	109	99	
390-2290-10	BH-101	105	101	
390-2290-10 MS	BH-101	103	108	
390-2290-10 MSD	BH-101	87	96	
390-2290-11	BH-102	103	103	
390-2290-12	BH-103	108	104	
390-2290-13	BH-104	106	103	
390-2290-14	BH-105	105	92	
390-2290-15	BH-106	90	94	
390-2290-16	BH-107	90	98	
390-2290-17	BH-108	99	98	
390-2290-18	BH-109	110	105	
390-2290-19	BH-110	74	96	
390-2290-20	BH-111	100	100	
390-2290-21	BH-112	87	92	
390-2290-22	BH-113	107	102	
LCS 880-25563/1-A	Lab Control Sample	95	103	
LCS 880-25564/1-A	Lab Control Sample	101	100	
LCSD 880-25563/2-A	Lab Control Sample Dup	99	105	
_CSD 880-25564/2-A	Lab Control Sample Dup	96	107	
MB 880-25563/5-A	Method Blank	77	94	
MB 880-25564/5-A	Method Blank	77	92	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-14554-A-1-C MS	Matrix Spike	109	108	
880-14554-A-1-D MSD	Matrix Spike Duplicate	94	94	
890-2290-1	BH-92	119	108	
890-2290-2	BH-93	122	113	
890-2290-3	BH-94	114	100	
890-2290-4	BH-95	104	93	
890-2290-5	BH-96	107	95	
890-2290-6	BH-97	108	99	
890-2290-7	BH-98	117	108	

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-2290-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limit
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-2290-8	BH-99	107	96	
390-2290-9	BH-100	106	96	
890-2290-10	BH-101	105	103	
890-2290-10 MS	BH-101	107	92	
890-2290-10 MSD	BH-101	121	105	
390-2290-11	BH-102	124	118	
390-2290-12	BH-103	105	97	
890-2290-13	BH-104	116	113	
890-2290-14	BH-105	108	96	
390-2290-15	BH-106	110	105	
390-2290-16	BH-107	113	99	
390-2290-17	BH-108	100	98	
890-2290-18	BH-109	117	109	
390-2290-19	BH-110	111	106	
390-2290-20	BH-111	103	94	
390-2290-21	BH-112	116	123	
390-2290-22	BH-113	101	108	
CS 880-25199/2-A	Lab Control Sample	123	124	
CS 880-25221/2-A	Lab Control Sample	104	93	
CSD 880-25199/3-A	Lab Control Sample Dup	129	132 S1+	
_CSD 880-25221/3-A	Lab Control Sample Dup	124	109	
/IB 880-25199/1-A	Method Blank	99	103	
MB 880-25221/1-A	Method Blank	110	117	
Surrogate Legend				

OTPH = o-Terphenyl (Surr)

Client: Tetra Tech, Inc.

Job ID: 890-2290-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-25563/5-A

Matrix: Solid Analysis Batch: 25561 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25563

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 07:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 07:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 07:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/14/22 12:33	05/15/22 07:45	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 07:45	1
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		05/14/22 12:33	05/15/22 07:45	1

MB MB

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77	70 - 130	05/14/22 12:33	05/15/22 07:45	1
1,4-Difluorobenzene (Surr)	94	70 - 130	05/14/22 12:33	05/15/22 07:45	1

Lab Sample ID: LCS 880-25563/1-A

Matrix: Solid

Analysis Batch: 25561

Client Sample ID: Lab Control Sample

Prop Patch: 25563

Prep Batch: 25563

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1040		mg/Kg		104	70 - 130	
Toluene	0.100	0.09693		mg/Kg		97	70 - 130	
Ethylbenzene	0.100	0.09485		mg/Kg		95	70 - 130	
m-Xylene & p-Xylene	0.200	0.1880		mg/Kg		94	70 - 130	
o-Xylene	0.100	0.09337		mg/Kg		93	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-25563/2-A

Matrix: Solid

Analysis Batch: 25561

Client Sample ID: Lab Control Sample Dup	Client Sam	ple ID: Lab	Control	Sample Dup
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Prep Type: Total/NA

Prep Batch: 25563

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1174		mg/Kg		117	70 - 130	12	35	
Toluene	0.100	0.1064		mg/Kg		106	70 - 130	9	35	
Ethylbenzene	0.100	0.1024		mg/Kg		102	70 - 130	8	35	
m-Xylene & p-Xylene	0.200	0.2038		mg/Kg		102	70 - 130	8	35	
o-Xylene	0.100	0.1007		mg/Kg		101	70 - 130	8	35	

LCSD LCSD

Surrogate	%Recovery Qualif	ier Limits
4-Bromofluorobenzene (Surr)	99	70 - 130
1,4-Difluorobenzene (Surr)	105	70 - 130

Lab Sample ID: MB 880-25564/5-A

Matrix: Solid

Analysis Batch: 25561

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25564

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 18:01	1
Toluene	< 0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 18:01	1

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Client: Tetra Tech, Inc. Job ID: 890-2290-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-25564/5-A

Matrix: Solid

Analysis Batch: 25561

Prep Type: Total/NA

Prep Batch: 25564

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 18:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/14/22 12:37	05/14/22 18:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 18:01	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/14/22 12:37	05/14/22 18:01	1

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	05/14/22 12:	37 05/14/22 18:01	1
1,4-Difluorobenzene (Surr)	92		70 - 130	05/14/22 12:	37 05/14/22 18:01	1

Lab Sample ID: LCS 880-25564/1-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 25561							Prep	Batch: 25564
	Spike	LCS	LCS				%Rec	
Analyto	habbA	Pocult	Qualifier	Unit	n	%Pac	Limite	

0.100 110 Benzene 0.1104 mg/Kg 70 - 130 Toluene 0.100 0.1137 mg/Kg 114 70 - 130 Ethylbenzene 0.100 0.1151 mg/Kg 115 70 - 130 m-Xylene & p-Xylene 0.200 0.2290 70 - 130 mg/Kg 115 o-Xylene 0.100 0.1106 mg/Kg 111 70 - 130

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: LCSD 880-25564/2-A

Matrix: Solid

Analysis Batch: 25561

0114	0	ID. Lak	0	0	D
Cilent	Sample	ID: Lab	Control	Sample	Dub

Prep Type: Total/NA

Prep Batch: 25564

	Spike	LCSD LCSD				%Rec		RPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1232	mg/Kg		123	70 - 130	11	35
Toluene	0.100	0.1126	mg/Kg		113	70 - 130	1	35
Ethylbenzene	0.100	0.1066	mg/Kg		107	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2139	mg/Kg		107	70 - 130	7	35
o-Xylene	0.100	0.1122	mg/Kg		112	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery Qua	alifier Limits	
4-Bromofluorobenzene (Surr)	96	70 - 130	
1,4-Difluorobenzene (Surr)	107	70 - 130	

Lab Sample ID: 890-2290-10 MS

Matrix: Solid

Analysis Batch: 25561

Client	Sample	ID: BH-1	01
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Prep Type: Total/NA

Prep Batch: 25564

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00199	U	0.101	0.1011		mg/Kg		100	70 - 130
Toluene	<0.00199	U	0.101	0.09136		mg/Kg		91	70 - 130
Ethylbenzene	<0.00199	U	0.101	0.08965		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.201	0.1797		mg/Kg		89	70 - 130

Job ID: 890-2290-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2290-10 MS Client Sample ID: BH-101 **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 25561 Prep Batch: 25564 Sample Sample Spike MS MS %Rec

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits D <0.00199 U 0.101 0.08784 87 70 - 130 o-Xylene mg/Kg

MS MS %Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 103 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 108

Lab Sample ID: 890-2290-10 MSD Client Sample ID: BH-101

Matrix: Solid

Prep Type: Total/NA **Analysis Batch: 25561** Prep Batch: 25564

MSD MSD Sample Sample Spike Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits RPD Limit D Benzene <0.00199 U 0.100 0.08471 mg/Kg 85 70 - 130 18 35 Toluene < 0.00199 U 0.100 0.08214 mg/Kg 82 70 - 130 11 35 Ethylbenzene <0.00199 U 0.100 0.08185 mg/Kg 82 70 - 130 9 35 m-Xylene & p-Xylene <0.00398 U 0.200 0.1660 mg/Kg 83 70 - 130 8 35 <0.00199 0.100 0.07935 79 70 - 130 35 o-Xylene U mg/Kg 10

MSD MSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 87 70 - 130 1,4-Difluorobenzene (Surr) 96 70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-25199/1-A Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 25231

MB MB Result Qualifier RL Unit D Prepared Dil Fac Analyte Analyzed C6-C10 <50.0 50.0 U mg/Kg 05/09/22 16:33 05/10/22 11:21 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 05/09/22 16:33 05/10/22 11:21 C10-C28)

OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 05/09/22 16:33 05/10/22 11:21 MB MB

Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analyzed 05/10/22 11:21 1-Chlorooctane (Surr) 70 - 130 05/09/22 16:33 99 o-Terphenyl (Surr) 103 70 - 130 05/09/22 16:33 05/10/22 11:21

Lab Sample ID: LCS 880-25199/2-A Client Sample ID: Lab Control Sample

Matrix: Solid Prep Type: Total/NA Analysis Batch: 25231 Prep Batch: 25199

Spike LCS LCS Analyte Added Result Qualifier Unit D %Rec Limits 1000 858.3 mg/Kg 86 70 - 130 1000 1226 123 70 - 130 Diesel Range Organics (Over mg/Kg

C10-C28) LCS LCS %Recovery Surrogate Qualifier Limits 1-Chlorooctane (Surr) 70 - 130 123

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%Rec

Prep Batch: 25199

Job ID: 890-2290-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 880-25199/2-A

Matrix: Solid

Analysis Batch: 25231

Prep Type: Total/NA

Prep Batch: 25199

LCS LCS

Surrogate %Recovery Qualifier Limits o-Terphenyl (Surr) 124 70 - 130

Lab Sample ID: LCSD 880-25199/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 25231

Prep Type: Total/NA

Prep Batch: 25199

%Rec

LCSD LCSD Spike RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit C6-C10 1000 1077 mg/Kg 108 70 - 130 23 20 Diesel Range Organics (Over 1000 1304 130 70 - 1306 20 mg/Kg

C10-C28)

Matrix: Solid

C10-C28)

Analysis Batch: 25231

LCSD LCSD Surrogate %Recovery Qualifier Limits 129 70 - 130 1-Chlorooctane (Surr)

Lab Sample ID: 880-14554-A-1-C MS

o-Terphenyl (Surr) 132 S1+ 70 - 130

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25199

Spike MS MS %Rec Sample Sample Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec C6-C10 <50.0 U *1 1000 1064 106 70 - 130 mg/Kg <50.0 U 1000 109 Diesel Range Organics (Over 1112 mg/Kg 70 - 130

MS MS %Recovery Qualifier Limits Surrogate

1-Chlorooctane (Surr) 70 - 130 109 o-Terphenyl (Surr) 108 70 - 130

Lab Sample ID: 880-14554-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 25231

Prep Type: Total/NA

Prep Batch: 25199 **RPD**

Sample Sample Spike MSD MSD %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit C6-C10 <50.0 U *1 998 90 20 899.1 mg/Kg 70 - 130 17 998 969.3 95 Diesel Range Organics (Over <50.0 U mg/Kg 70 - 13014 20

C10-C28)

MSD MSD

%Recovery Qualifier Limits Surrogate 1-Chlorooctane (Surr) 94 70 - 130 o-Terphenyl (Surr) 94 70 - 130

Lab Sample ID: MB 880-25221/1-A

Matrix: Solid

Analysis Batch: 25235

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 25221

MB MB

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac C6-C10 <50.0 U 50.0 mg/Kg 05/10/22 08:18 05/10/22 11:44 50.0 05/10/22 08:18 Diesel Range Organics (Over <50.0 U 05/10/22 11:44 mg/Kg C10-C28)

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

MR MR

Job ID: 890-2290-1 SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-25221/1-A **Matrix: Solid**

Analysis Batch: 25235

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 25221

Prep Batch: 25221

	11.10	W.D						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/10/22 08:18	05/10/22 11:44	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	110		70 - 130	05/10/22 08:18	05/10/22 11:44	1
o-Terphenyl (Surr)	117		70 - 130	05/10/22 08:18	05/10/22 11:44	1

Lab Sample ID: LCS 880-25221/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 25235

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
C6-C10	1000	1043		mg/Kg		104	70 - 130	
Diesel Range Organics (Over	1000	993.9		mg/Kg		99	70 - 130	

C10-C28)

	LUS	LUS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	104		70 - 130
o-Terphenyl (Surr)	93		70 - 130

Lab Sample ID: LCSD 880-25221/3-A Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Solid

C10-C28)

Analysis Batch: 25235								Prep Batch: 2							
			Spike	LCSD	LCSD				%Rec		RPD				
	Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit				
	C6-C10		1000	1171		mg/Kg		117	70 - 130	12	20				
	Diesel Range Organics (Over		1000	1177		mg/Kg		118	70 - 130	17	20				

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	124		70 - 130
o-Terphenyl (Surr)	109		70 - 130

Lab Sample ID: 890-2290-10 MS Client Sample ID: BH-101 Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 25235

-	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
C6-C10	<49.9	U F1 F2	1000	1218		mg/Kg		119	70 - 130
Diesel Range Organics (Over	<49.9	U	1000	983.9		mg/Kg		98	70 - 130

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	107		70 - 130
o-Terphenyl (Surr)	92		70 - 130

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Prep Batch: 25221

Job ID: 890-2290-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-2290-10 MSD

Analysis Batch: 25235

Matrix: Solid

Client Sample ID: BH-101

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: BH-92

Prep Type: Soluble

Prep Type: Total/NA Prep Batch: 25221

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
C6-C10	<49.9	U F1 F2	998	1540	F1 F2	mg/Kg		151	70 - 130	23	20
Diesel Range Organics (Over	<49.9	U	998	1141		mg/Kg		114	70 - 130	15	20

C10-C28)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	121		70 - 130
o-Terphenyl (Surr)	105		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-25289/1-A

Matrix: Solid

Analysis Batch: 25351

мв мв

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 U	5.00	mg/Kg			05/12/22 06:55	1

Lab Sample ID: LCS 880-25289/2-A

Matrix: Solid

Analysis Batch: 25351

	Spike	LUS	LUS				/onec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	270.0		mg/Kg		108	90 - 110	

Chiles

Lab Sample ID: LCSD 880-25289/3-A

Matrix: Solid

Analysis Batch: 25351

	Spike	LCSD LCSD				%Rec		RPD	
Analyte	Added	Result Qualifi	er Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	269.9	mg/Kg		108	90 - 110	0	20	

Lab Sample ID: 890-2290-1 MS

Matrix: Solid

Analysis Batch: 25351

mary 313 Daton. 2000 i										
	Sample	Sample	Spike	MS	MS				%Rec	
nalyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
alorido	4070	<u></u>	2530	6056	E1	malka		111	00 110	

Lab Sample ID: 890-2290-1 MSD

Matrix: Solid

Analysis Batch: 25351

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	4070	F1	2530	6956	F1	mg/Kg		114	90 - 110	

Client Sample ID: BH-92 **Prep Type: Soluble**

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Limit Chloride 4070 F1 2530 6972 F1 115 90 - 110 20 mg/Kg

Lab Sample ID: 890-2290-11 MS

Job ID: 890-2290-1 SDG: Lea County NM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Method: 300.0 - Anions, Ion Chromatography (Continued)

Client Sample ID: BH-102

Prep Type: Soluble

Analysis Batch: 25351

Matrix: Solid

Sample Sample Spike MS MS %Rec Result Qualifier Analyte Added Result Qualifier Unit D %Rec Limits Chloride 2550 1260 3909 mg/Kg 107 90 - 110

Client Sample ID: BH-102

Lab Sample ID: 890-2290-11 MSD **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 25351

Sample Sample Spike MSD MSD %Rec RPD Qualifier Added RPD Limit Analyte Result Result Qualifier Unit D %Rec Limits Chloride 2550 1260 3911 mg/Kg 107 90 - 110

Lab Sample ID: MB 880-25414/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Soluble

Analysis Batch: 25429

мв мв

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 05/12/22 11:56 mg/Kg

Lab Sample ID: LCS 880-25414/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 25429

LCS LCS Spike %Rec Added Analyte Result Qualifier Unit %Rec Limits Chloride 250 245.3 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-25414/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 25429

LCSD LCSD Spike %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 245.1 mg/Kg 98 90 - 110 20

Lab Sample ID: 880-14738-A-1-B MS Client Sample ID: Matrix Spike Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 25429

Sample Spike MS MS %Rec Sample Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits Chloride 208 248 438.3 mg/Kg 93 90 - 110

Lab Sample ID: 880-14738-A-1-C MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 25429

MSD MSD %Rec RPD Sample Sample Spike Result Qualifier Added Analyte Result Qualifier Limits RPD Limit Unit D %Rec Chloride 208 248 435.7 mg/Kg 92 90 - 110 20

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-2290-1

SDG: Lea County NM

GC VOA

Analysis Batch: 25561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-1	BH-92	Total/NA	Solid	8021B	25563
890-2290-2	BH-93	Total/NA	Solid	8021B	25563
890-2290-3	BH-94	Total/NA	Solid	8021B	25563
890-2290-4	BH-95	Total/NA	Solid	8021B	25563
890-2290-5	BH-96	Total/NA	Solid	8021B	25563
890-2290-6	BH-97	Total/NA	Solid	8021B	25563
890-2290-7	BH-98	Total/NA	Solid	8021B	25563
890-2290-8	BH-99	Total/NA	Solid	8021B	25563
890-2290-9	BH-100	Total/NA	Solid	8021B	25563
890-2290-10	BH-101	Total/NA	Solid	8021B	25564
890-2290-11	BH-102	Total/NA	Solid	8021B	25564
890-2290-12	BH-103	Total/NA	Solid	8021B	25564
890-2290-13	BH-104	Total/NA	Solid	8021B	25564
890-2290-14	BH-105	Total/NA	Solid	8021B	25564
890-2290-15	BH-106	Total/NA	Solid	8021B	25564
890-2290-16	BH-107	Total/NA	Solid	8021B	25564
890-2290-17	BH-108	Total/NA	Solid	8021B	25564
890-2290-18	BH-109	Total/NA	Solid	8021B	25564
890-2290-19	BH-110	Total/NA	Solid	8021B	25564
890-2290-20	BH-111	Total/NA	Solid	8021B	25564
890-2290-21	BH-112	Total/NA	Solid	8021B	25564
890-2290-22	BH-113	Total/NA	Solid	8021B	25564
MB 880-25563/5-A	Method Blank	Total/NA	Solid	8021B	25563
MB 880-25564/5-A	Method Blank	Total/NA	Solid	8021B	25564
LCS 880-25563/1-A	Lab Control Sample	Total/NA	Solid	8021B	25563
LCS 880-25564/1-A	Lab Control Sample	Total/NA	Solid	8021B	25564
LCSD 880-25563/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25563
LCSD 880-25564/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25564
890-2290-10 MS	BH-101	Total/NA	Solid	8021B	25564
890-2290-10 MSD	BH-101	Total/NA	Solid	8021B	25564

Prep Batch: 25563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-1	BH-92	Total/NA	Solid	5035	
890-2290-2	BH-93	Total/NA	Solid	5035	
890-2290-3	BH-94	Total/NA	Solid	5035	
890-2290-4	BH-95	Total/NA	Solid	5035	
890-2290-5	BH-96	Total/NA	Solid	5035	
890-2290-6	BH-97	Total/NA	Solid	5035	
890-2290-7	BH-98	Total/NA	Solid	5035	
890-2290-8	BH-99	Total/NA	Solid	5035	
890-2290-9	BH-100	Total/NA	Solid	5035	
MB 880-25563/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25563/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25563/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 25564

Lab Sample ID 890-2290-10	Client Sample ID BH-101	Prep Type Total/NA	Matrix Solid	Method 5035	Prep Batch
890-2290-11	BH-102	Total/NA	Solid	5035	
890-2290-12	BH-103	Total/NA	Solid	5035	

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Client: Tetra Tech, Inc.

Job ID: 890-2290-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC VOA (Continued)

Prep Batch: 25564 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-13	BH-104	Total/NA	Solid	5035	
890-2290-14	BH-105	Total/NA	Solid	5035	
890-2290-15	BH-106	Total/NA	Solid	5035	
890-2290-16	BH-107	Total/NA	Solid	5035	
890-2290-17	BH-108	Total/NA	Solid	5035	
890-2290-18	BH-109	Total/NA	Solid	5035	
890-2290-19	BH-110	Total/NA	Solid	5035	
890-2290-20	BH-111	Total/NA	Solid	5035	
890-2290-21	BH-112	Total/NA	Solid	5035	
890-2290-22	BH-113	Total/NA	Solid	5035	
MB 880-25564/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25564/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25564/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2290-10 MS	BH-101	Total/NA	Solid	5035	
890-2290-10 MSD	BH-101	Total/NA	Solid	5035	

Analysis Batch: 25658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-2290-1	BH-92	Total/NA	Solid	Total BTEX	-
890-2290-2	BH-93	Total/NA	Solid	Total BTEX	
890-2290-3	BH-94	Total/NA	Solid	Total BTEX	
890-2290-4	BH-95	Total/NA	Solid	Total BTEX	
890-2290-5	BH-96	Total/NA	Solid	Total BTEX	
890-2290-6	BH-97	Total/NA	Solid	Total BTEX	
890-2290-7	BH-98	Total/NA	Solid	Total BTEX	
890-2290-8	BH-99	Total/NA	Solid	Total BTEX	
890-2290-9	BH-100	Total/NA	Solid	Total BTEX	
890-2290-10	BH-101	Total/NA	Solid	Total BTEX	
890-2290-11	BH-102	Total/NA	Solid	Total BTEX	
890-2290-12	BH-103	Total/NA	Solid	Total BTEX	
890-2290-13	BH-104	Total/NA	Solid	Total BTEX	
890-2290-14	BH-105	Total/NA	Solid	Total BTEX	
890-2290-15	BH-106	Total/NA	Solid	Total BTEX	
890-2290-16	BH-107	Total/NA	Solid	Total BTEX	
890-2290-17	BH-108	Total/NA	Solid	Total BTEX	
890-2290-18	BH-109	Total/NA	Solid	Total BTEX	
890-2290-19	BH-110	Total/NA	Solid	Total BTEX	
890-2290-20	BH-111	Total/NA	Solid	Total BTEX	
890-2290-21	BH-112	Total/NA	Solid	Total BTEX	
890-2290-22	BH-113	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 25199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-21	BH-112	Total/NA	Solid	8015NM Prep	
890-2290-22	BH-113	Total/NA	Solid	8015NM Prep	
MB 880-25199/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-25199/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-25199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-14554-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	

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Client: Tetra Tech, Inc. Job ID: 890-2290-1 Project/Site: Kaiser SWD SDG: Lea County NM

GC Semi VOA (Continued)

Prep Batch: 25199 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14554-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 25221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-1	BH-92	Total/NA	Solid	8015NM Prep	
890-2290-2	BH-93	Total/NA	Solid	8015NM Prep	
890-2290-3	BH-94	Total/NA	Solid	8015NM Prep	
890-2290-4	BH-95	Total/NA	Solid	8015NM Prep	
890-2290-5	BH-96	Total/NA	Solid	8015NM Prep	
890-2290-6	BH-97	Total/NA	Solid	8015NM Prep	
890-2290-7	BH-98	Total/NA	Solid	8015NM Prep	
890-2290-8	BH-99	Total/NA	Solid	8015NM Prep	
890-2290-9	BH-100	Total/NA	Solid	8015NM Prep	
890-2290-10	BH-101	Total/NA	Solid	8015NM Prep	
890-2290-11	BH-102	Total/NA	Solid	8015NM Prep	
890-2290-12	BH-103	Total/NA	Solid	8015NM Prep	
890-2290-13	BH-104	Total/NA	Solid	8015NM Prep	
890-2290-14	BH-105	Total/NA	Solid	8015NM Prep	
890-2290-15	BH-106	Total/NA	Solid	8015NM Prep	
890-2290-16	BH-107	Total/NA	Solid	8015NM Prep	
890-2290-17	BH-108	Total/NA	Solid	8015NM Prep	
890-2290-18	BH-109	Total/NA	Solid	8015NM Prep	
890-2290-19	BH-110	Total/NA	Solid	8015NM Prep	
890-2290-20	BH-111	Total/NA	Solid	8015NM Prep	
MB 880-25221/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-25221/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-25221/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2290-10 MS	BH-101	Total/NA	Solid	8015NM Prep	
890-2290-10 MSD	BH-101	Total/NA	Solid	8015NM Prep	

Analysis Batch: 25231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-21	BH-112	Total/NA	Solid	8015B NM	25199
890-2290-22	BH-113	Total/NA	Solid	8015B NM	25199
MB 880-25199/1-A	Method Blank	Total/NA	Solid	8015B NM	25199
LCS 880-25199/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	25199
LCSD 880-25199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	25199
880-14554-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	25199
880-14554-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	25199

Analysis Batch: 25235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-1	BH-92	Total/NA	Solid	8015B NM	25221
890-2290-2	BH-93	Total/NA	Solid	8015B NM	25221
890-2290-3	BH-94	Total/NA	Solid	8015B NM	25221
890-2290-4	BH-95	Total/NA	Solid	8015B NM	25221
890-2290-5	BH-96	Total/NA	Solid	8015B NM	25221
890-2290-6	BH-97	Total/NA	Solid	8015B NM	25221
890-2290-7	BH-98	Total/NA	Solid	8015B NM	25221
890-2290-8	BH-99	Total/NA	Solid	8015B NM	25221
890-2290-9	BH-100	Total/NA	Solid	8015B NM	25221

Client: Tetra Tech, Inc. Job ID: 890-2290-1 Project/Site: Kaiser SWD SDG: Lea County NM

GC Semi VOA (Continued)

Analysis Batch: 25235 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-10	BH-101	Total/NA	Solid	8015B NM	25221
890-2290-11	BH-102	Total/NA	Solid	8015B NM	25221
890-2290-12	BH-103	Total/NA	Solid	8015B NM	25221
890-2290-13	BH-104	Total/NA	Solid	8015B NM	25221
890-2290-14	BH-105	Total/NA	Solid	8015B NM	25221
890-2290-15	BH-106	Total/NA	Solid	8015B NM	25221
890-2290-16	BH-107	Total/NA	Solid	8015B NM	25221
890-2290-17	BH-108	Total/NA	Solid	8015B NM	25221
890-2290-18	BH-109	Total/NA	Solid	8015B NM	25221
890-2290-19	BH-110	Total/NA	Solid	8015B NM	25221
890-2290-20	BH-111	Total/NA	Solid	8015B NM	25221
MB 880-25221/1-A	Method Blank	Total/NA	Solid	8015B NM	25221
LCS 880-25221/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	25221
LCSD 880-25221/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	25221
890-2290-10 MS	BH-101	Total/NA	Solid	8015B NM	25221
890-2290-10 MSD	BH-101	Total/NA	Solid	8015B NM	25221

Analysis Batch: 25343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-2290-1	BH-92	Total/NA	Solid	8015 NM	
890-2290-2	BH-93	Total/NA	Solid	8015 NM	
890-2290-3	BH-94	Total/NA	Solid	8015 NM	
890-2290-4	BH-95	Total/NA	Solid	8015 NM	
890-2290-5	BH-96	Total/NA	Solid	8015 NM	
890-2290-6	BH-97	Total/NA	Solid	8015 NM	
890-2290-7	BH-98	Total/NA	Solid	8015 NM	
890-2290-8	BH-99	Total/NA	Solid	8015 NM	
890-2290-9	BH-100	Total/NA	Solid	8015 NM	
890-2290-10	BH-101	Total/NA	Solid	8015 NM	
890-2290-11	BH-102	Total/NA	Solid	8015 NM	
890-2290-12	BH-103	Total/NA	Solid	8015 NM	
890-2290-13	BH-104	Total/NA	Solid	8015 NM	
890-2290-14	BH-105	Total/NA	Solid	8015 NM	
890-2290-15	BH-106	Total/NA	Solid	8015 NM	
890-2290-16	BH-107	Total/NA	Solid	8015 NM	
890-2290-17	BH-108	Total/NA	Solid	8015 NM	
890-2290-18	BH-109	Total/NA	Solid	8015 NM	
890-2290-19	BH-110	Total/NA	Solid	8015 NM	
890-2290-20	BH-111	Total/NA	Solid	8015 NM	
890-2290-21	BH-112	Total/NA	Solid	8015 NM	
890-2290-22	BH-113	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 25289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-1	BH-92	Soluble	Solid	DI Leach	
890-2290-2	BH-93	Soluble	Solid	DI Leach	
890-2290-3	BH-94	Soluble	Solid	DI Leach	
890-2290-4	BH-95	Soluble	Solid	DI Leach	
890-2290-5	BH-96	Soluble	Solid	DI Leach	

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-2290-1

SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 25289 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-6	BH-97	Soluble	Solid	DI Leach	_
890-2290-7	BH-98	Soluble	Solid	DI Leach	
890-2290-8	BH-99	Soluble	Solid	DI Leach	
890-2290-9	BH-100	Soluble	Solid	DI Leach	
890-2290-10	BH-101	Soluble	Solid	DI Leach	
890-2290-11	BH-102	Soluble	Solid	DI Leach	
890-2290-12	BH-103	Soluble	Solid	DI Leach	
890-2290-13	BH-104	Soluble	Solid	DI Leach	
890-2290-14	BH-105	Soluble	Solid	DI Leach	
890-2290-15	BH-106	Soluble	Solid	DI Leach	
890-2290-16	BH-107	Soluble	Solid	DI Leach	
890-2290-17	BH-108	Soluble	Solid	DI Leach	
890-2290-18	BH-109	Soluble	Solid	DI Leach	
890-2290-19	BH-110	Soluble	Solid	DI Leach	
890-2290-20	BH-111	Soluble	Solid	DI Leach	
MB 880-25289/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-25289/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-25289/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2290-1 MS	BH-92	Soluble	Solid	DI Leach	
890-2290-1 MSD	BH-92	Soluble	Solid	DI Leach	
890-2290-11 MS	BH-102	Soluble	Solid	DI Leach	
890-2290-11 MSD	BH-102	Soluble	Solid	DI Leach	

Analysis Batch: 25351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-2290-1	BH-92	Soluble	Solid	300.0	25289
890-2290-2	BH-93	Soluble	Solid	300.0	25289
890-2290-3	BH-94	Soluble	Solid	300.0	25289
890-2290-4	BH-95	Soluble	Solid	300.0	25289
890-2290-5	BH-96	Soluble	Solid	300.0	25289
890-2290-6	BH-97	Soluble	Solid	300.0	25289
890-2290-7	BH-98	Soluble	Solid	300.0	25289
890-2290-8	BH-99	Soluble	Solid	300.0	25289
890-2290-9	BH-100	Soluble	Solid	300.0	25289
890-2290-10	BH-101	Soluble	Solid	300.0	25289
890-2290-11	BH-102	Soluble	Solid	300.0	25289
890-2290-12	BH-103	Soluble	Solid	300.0	25289
890-2290-13	BH-104	Soluble	Solid	300.0	25289
890-2290-14	BH-105	Soluble	Solid	300.0	25289
890-2290-15	BH-106	Soluble	Solid	300.0	25289
890-2290-16	BH-107	Soluble	Solid	300.0	25289
890-2290-17	BH-108	Soluble	Solid	300.0	25289
890-2290-18	BH-109	Soluble	Solid	300.0	25289
890-2290-19	BH-110	Soluble	Solid	300.0	25289
890-2290-20	BH-111	Soluble	Solid	300.0	25289
MB 880-25289/1-A	Method Blank	Soluble	Solid	300.0	25289
LCS 880-25289/2-A	Lab Control Sample	Soluble	Solid	300.0	25289
LCSD 880-25289/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	25289
890-2290-1 MS	BH-92	Soluble	Solid	300.0	25289
890-2290-1 MSD	BH-92	Soluble	Solid	300.0	25289
890-2290-11 MS	BH-102	Soluble	Solid	300.0	25289

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Client: Tetra Tech, Inc. Job ID: 890-2290-1 Project/Site: Kaiser SWD SDG: Lea County NM

HPLC/IC (Continued)

Analysis Batch: 25351 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-11 MSD	BH-102	Soluble	Solid	300.0	25289

Leach Batch: 25414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-21	BH-112	Soluble	Solid	DI Leach	
890-2290-22	BH-113	Soluble	Solid	DI Leach	
MB 880-25414/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-25414/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-25414/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-14738-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-14738-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 25429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-21	BH-112	Soluble	Solid	300.0	25414
890-2290-22	BH-113	Soluble	Solid	300.0	25414
MB 880-25414/1-A	Method Blank	Soluble	Solid	300.0	25414
LCS 880-25414/2-A	Lab Control Sample	Soluble	Solid	300.0	25414
LCSD 880-25414/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	25414
880-14738-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	25414
880-14738-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	25414

Client Sample ID: BH-92 Lab Sample ID: 890-2290-1

Date Collected: 05/06/22 00:00 Matrix: Solid Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	25563	05/14/22 12:33	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/15/22 14:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25235	05/10/22 13:54	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	25289	05/10/22 17:06	SC	XEN MID
Soluble	Analysis	300.0		10			25351	05/12/22 07:19	CH	XEN MID

Client Sample ID: BH-93 Lab Sample ID: 890-2290-2 Matrix: Solid

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	25563	05/14/22 12:33	MR	XEN MIC
Total/NA	Analysis	8021B		1			25561	05/15/22 15:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25235	05/10/22 16:05	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	25289	05/10/22 17:06	SC	XEN MID
Soluble	Analysis	300.0		5			25351	05/12/22 07:44	CH	XEN MID

Client Sample ID: BH-94 Lab Sample ID: 890-2290-3 Date Collected: 05/06/22 00:00 **Matrix: Solid**

Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	25563	05/14/22 12:33	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/15/22 15:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25235	05/10/22 14:16	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	25289	05/10/22 17:06	SC	XEN MID
Soluble	Analysis	300.0		5			25351	05/12/22 07:52	CH	XEN MID

Client Sample ID: BH-95 Lab Sample ID: 890-2290-4

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	25563	05/14/22 12:33	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/15/22 15:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID

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Client Sample ID: BH-95

Lab Sample ID: 890-2290-4

Matrix: Salid

Date Collected: 05/06/22 00:00 Matrix: Solid
Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25235	05/10/22 14:37	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	25289	05/10/22 17:06	SC	XEN MID
Soluble	Analysis	300.0		10			25351	05/12/22 08:00	CH	XEN MID

Client Sample ID: BH-96

Date Collected: 05/06/22 00:00

Lab Sample ID: 890-2290-5

Matrix: Solid

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	25563	05/14/22 12:33	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/15/22 16:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25235	05/10/22 15:21	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	25289	05/10/22 17:06	SC	XEN MID
Soluble	Analysis	300.0		5			25351	05/12/22 08:08	CH	XEN MID

Client Sample ID: BH-97

Date Collected: 05/06/22 00:00

Lab Sample ID: 890-2290-6

Matrix: Solid

Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	25563	05/14/22 12:33	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/15/22 16:50	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25235	05/10/22 14:59	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	25289	05/10/22 17:06	SC	XEN MIC
Soluble	Analysis	300.0		10			25351	05/12/22 13:24	CH	XEN MID

Client Sample ID: BH-98 Lab Sample ID: 890-2290-7

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	25563	05/14/22 12:33	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/15/22 17:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g	10 mL	25221 25235	05/10/22 08:18 05/10/22 15:43	DM SM	XEN MID XEN MID

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Client Sample ID: BH-98 Lab Sample ID: 890-2290-7

Date Collected: 05/06/22 00:00 Matrix: Solid Date Received: 05/06/22 15:23

		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
P	гер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
S	oluble	Leach	DI Leach			5 g	50 mL	25289	05/10/22 17:06	SC	XEN MID
S	oluble	Analysis	300.0		5			25351	05/12/22 13:33	CH	XEN MID

Client Sample ID: BH-99 Lab Sample ID: 890-2290-8

Date Collected: 05/06/22 00:00 **Matrix: Solid**

Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	25563	05/14/22 12:33	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/15/22 17:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25235	05/10/22 16:26	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	25289	05/10/22 17:06	SC	XEN MID
Soluble	Analysis	300.0		5			25351	05/12/22 13:41	CH	XEN MID

Client Sample ID: BH-100 Lab Sample ID: 890-2290-9

Date Collected: 05/06/22 00:00 **Matrix: Solid** Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	25563	05/14/22 12:33	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/15/22 18:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25235	05/10/22 16:49	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	25289	05/10/22 17:06	SC	XEN MID
Soluble	Analysis	300.0		10			25351	05/12/22 13:49	CH	XEN MID

Client Sample ID: BH-101 Lab Sample ID: 890-2290-10 Date Collected: 05/06/22 00:00

Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	25564	05/14/22 12:37	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/14/22 18:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25235	05/10/22 12:49	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	25289	05/10/22 17:06	SC	XEN MID
Soluble	Analysis	300.0		5			25351	05/12/22 13:57	CH	XEN MID

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Client Sample ID: BH-102

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	25564	05/14/22 12:37	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/14/22 18:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25235	05/10/22 17:32	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	25289	05/10/22 17:06	SC	XEN MID
Soluble	Analysis	300.0		5			25351	05/12/22 14:05	CH	XEN MID

Lab Sample ID: 890-2290-12

Client Sample ID: BH-103 Date Collected: 05/06/22 00:00

Date Received: 05/06/22 15:23

Matrix: Solid

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 25564 Total/NA 4.96 g 05/14/22 12:37 MR XEN MID 5 mL Total/NA 8021B 25561 05/14/22 19:21 XEN MID Analysis 1 MR Total/NA Total BTEX 25658 05/16/22 16:56 XEN MID Analysis 1 SM Total/NA Analysis 8015 NM 25343 05/11/22 10:27 SM XEN MID Total/NA 25221 XEN MID Prep 8015NM Prep 10.00 g 05/10/22 08:18 DM 10 mL Total/NA Analysis 8015B NM 25235 05/10/22 17:54 SM XEN MID Soluble SC XEN MID Leach DI Leach 5.01 g 50 mL 25289 05/10/22 17:06 Soluble Analysis 300.0 10 25351 05/12/22 14:30 CH XEN MID

Client Sample ID: BH-104

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Lab Sample ID: 890-2290-13

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	25564	05/14/22 12:37	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/14/22 19:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25235	05/10/22 18:15	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	25289	05/10/22 17:06	SC	XEN MID
Soluble	Analysis	300.0		5			25351	05/12/22 14:38	CH	XEN MID

Client Sample ID: BH-105

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Lab Sample ID: 890-2290-14

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	25564	05/14/22 12:37	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/14/22 20:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID

Client Sample ID: BH-105

Lab Sample ID: 890-2290-14 Date Collected: 05/06/22 00:00 Matrix: Solid

Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25235	05/10/22 20:02	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	25289	05/10/22 17:06	SC	XEN MID
Soluble	Analysis	300.0		1			25351	05/12/22 15:03	CH	XEN MID

Client Sample ID: BH-106 Lab Sample ID: 890-2290-15

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	25564	05/14/22 12:37	MR	XEN MID
Total/NA	Analysis	8021B		200			25561	05/14/22 22:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		5			25235	05/10/22 18:37	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	25289	05/10/22 17:06	SC	XEN MID
Soluble	Analysis	300.0		5			25351	05/12/22 16:27	CH	XEN MID

Lab Sample ID: 890-2290-16 **Client Sample ID: BH-107**

Date Collected: 05/06/22 00:00 **Matrix: Solid** Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	25564	05/14/22 12:37	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/14/22 20:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25235	05/10/22 19:41	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	25289	05/10/22 17:06	SC	XEN MID
Soluble	Analysis	300.0		5			25351	05/12/22 16:35	CH	XEN MID

Lab Sample ID: 890-2290-17 Client Sample ID: BH-108

Date Received: 05/06/22 15:23

Date Collected: 05/06/22 00:00

=	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	25564	05/14/22 12:37	MR	XEN MID
Total/NA	Analysis	8021B		200			25561	05/14/22 22:31	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		5			25235	05/10/22 18:58	SM	XEN MID

Eurofins Carlsbad

Matrix: Solid

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-108

Date Received: 05/06/22 15:23

Released to Imaging: 9/1/2023 2:55:43 PM

Lab Sample ID: 890-2290-17 Date Collected: 05/06/22 00:00

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Soluble DI Leach 25289 Leach 4.98 g 50 mL 05/10/22 17:06 SC XEN MID 300.0 05/12/22 16:44 Soluble Analysis 5 25351 СН XEN MID

Client Sample ID: BH-109 Lab Sample ID: 890-2290-18

Date Collected: 05/06/22 00:00 **Matrix: Solid**

Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	25564	05/14/22 12:37	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/14/22 21:09	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25235	05/10/22 20:24	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	25289	05/10/22 17:06	SC	XEN MID
Soluble	Analysis	300.0		5			25351	05/12/22 15:14	CH	XEN MID

Client Sample ID: BH-110 Lab Sample ID: 890-2290-19

Date Collected: 05/06/22 00:00 **Matrix: Solid** Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	25564	05/14/22 12:37	MR	XEN MID
Total/NA	Analysis	8021B		200			25561	05/14/22 22:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25235	05/11/22 07:03	SM	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	25289	05/10/22 17:06	SC	XEN MID
Soluble	Analysis	300.0		5			25351	05/12/22 16:52	CH	XEN MID

Client Sample ID: BH-111 Lab Sample ID: 890-2290-20

Date Collected: 05/06/22 00:00 **Matrix: Solid** Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	25564	05/14/22 12:37	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/14/22 21:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	25221	05/10/22 08:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25235	05/10/22 20:45	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	25289	05/10/22 17:06	SC	XEN MID
Soluble	Analysis	300.0		5			25351	05/12/22 15:24	CH	XEN MID

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Job ID: 890-2290-1

Client Sample ID: BH-112

Date Received: 05/06/22 15:23

Lab Sample ID: 890-2290-21 Date Collected: 05/06/22 00:00

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	25564	05/14/22 12:37	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/15/22 00:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25199	05/09/22 16:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25231	05/10/22 19:05	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	25414	05/12/22 11:30	CH	XEN MID
Soluble	Analysis	300.0		1			25429	05/12/22 13:00	CH	XEN MID

Client Sample ID: BH-113 Lab Sample ID: 890-2290-22

Date Collected: 05/06/22 00:00 Matrix: Solid Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	25564	05/14/22 12:37	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/15/22 01:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25658	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25343	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25199	05/09/22 16:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25231	05/10/22 19:27	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	25414	05/12/22 11:30	CH	XEN MID
Soluble	Analysis	300.0		1			25429	05/12/22 13:09	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Job ID: 890-2290-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date	
Texas	NE	ELAP	T104704400-21-22	06-30-22	
The following analytes	are included in this report, bu	it the laboratory is not certifi	ed by the governing authority. This list ma	y include analytes for w	
the agency does not of		,	, gg,	y molado analytoo for w	
the agency does not of Analysis Method		Matrix	Analyte	y molade analytee for w	
9 ,	fer certification.	•	, , ,		

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Method Summary

Client: Tetra Tech, Inc.

Job ID: 890-2290-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-2290-1 SDG: Lea County NM

roject/Site: Ka	CI/Site. Kaiser SWD					
ab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
90-2290-1	BH-92	Solid	05/06/22 00:00	05/06/22 15:23	5	

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2290-1	BH-92	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-2	BH-93	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-3	BH-94	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-4	BH-95	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-5	BH-96	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-6	BH-97	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-7	BH-98	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-8	BH-99	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-9	BH-100	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-10	BH-101	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-11	BH-102	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-12	BH-103	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-13	BH-104	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-14	BH-105	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-15	BH-106	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-16	BH-107	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-17	BH-108	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-18	BH-109	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-19	BH-110	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-20	BH-111	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-21	BH-112	Solid	05/06/22 00:00	05/06/22 15:23	5
890-2290-22	BH-113	Solid	05/06/22 00:00	05/06/22 15:23	5

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Analysis Request	of Chain of Custody Record																				Р	age			<u> </u>	<u>f</u>	
Tŧ	Tetra Tech, Inc.			9	Mic	/ Wall Sidland,Te el (432) ax (432)	exas 79 682-45	705 59																			
Client Name:	Permian Water Solutions	Site Manager:		Clair	Go	onzal	les																				
Project Name:	Kaiser SWD											1,	8	390-2	2290	Cha	in of	Cus	stody	У					1	1	1
Project Location: (county, state)	Lea County, New Mexico	Project #:		2	120	C-MC	-02	230				11												(12)			
Invoice to:	Dusty McInturff - Permian Water Solutions											11	l G		위문	,							1	l cued			
Receiving Laboratory:	Eurofins Xenco	Sampler Signat	ure:	E:	zec	quiel	Mor	eno					TPH TX1005 (Ext to C35) TPH 8015M (GRO - DRO - ORO - MRO)		Total Metals Ag As Ba Cd Cr Pb Se Hg				35					General water Chemistry (see attached list) Anion/Cation Balance			
Comments:												(8260B	(35) DRO - (COC			624	70C/62		-		TDS	e e			
		SAMPL	ING	MAT	RIX	(ERVATI THOD	VE	RS	2	BTE	GRO-		Ad As B	S	olatiles	260B /	Vol. 82	809	(6)		Sulfate	Balanc			ļ
LAB#	SAMPLE IDENTIFICATION	YEAR: 2020		ις.		Τ				# CONTAINERS	FILTERED (Y/N)	8021B	TPH TX1005 (Ext to C35) TPH 8015M (GRO - DRO	3270C	Metals A	Volatile	TCLP Semi Volatiles	S Vol. 8	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM PI M (Ashestos)	51 1	de S	General Water Chemi Anion/Cation Balance			
(LAB USE)		DATE	TIME	WATER SOIL		로	HNO3	None None		# CO	FILTE	ВТЕХ	HALL HALL	PAH 8270C	TCI P	TCLP	TOLP	Σ S	GC/M	PCB's	NORM PI M (A	Chlori	Chloride	Anion		\perp	HOL
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	BH-93 (5')	5/6/2022		×	┸	\perp		× L	↓_		_	X	X	14	\perp	L	\sqcup	\perp		Н	\perp	X	\perp	-	\sqcup	+	╀
	BH-94 (5')	5/6/2022		×	\perp	\perp	Ш	x L			<u> </u>	X	X	Ш	\perp	_	Н	┸	Ш	Ц		Х	\perp	_	Ш	+	\bot
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	BH-96 (5')	5/6/2022		×			Ш	x L				X	X	+-+	\perp	\perp	Н	\perp	\perp	Ц	4	X	\sqcup	_	Н	+	\downarrow
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	BH-101 (5')	5/6/2022		X			_	X L	L			Х	Х			\perp			Ш	Ш		X			Ш		_
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Analysis Request of Chain of Custody Record

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Client Name:	Permian Water Solutions	Site Manager:		Clai	r Goi	nzale	s										ALY:									
Project Name:	Kaiser SWD											١,	1 1	Cir I	cle	or	Sp	eci: I I	fy N ∣	letr 	าod เ	NO I	·.)	1 1	1	ì
Project Location: (county, state)	Lea County, New Mexico	Project #:		2	12C	-MD-	022	30															list)			
nvoice to: Receiving Laboratory:	Dusty McInturff - Permian Water Solutions	Sampler Signa	iture:	E	zegi	uiel N	/lore	no					(O - MRO)	Se Hg	b Se Hg								attached list)	 		
Comments:	Eurofins Xenco											X 8260B	- DRO - ORO - MRO)	Cd Cr Pb	As Ba Cd Cr Pb Se Hg			624	8270C/625			TDS	nistry (see			
		SAMP	LING	MA	TRIX	P		RVATIV	VE.	ERS	(Y/N)	BTE (Ext to	(GRO	A	s Ag As B	les	voiatilles	8260B/	7 Vol. 82		stos)	Sulfate	ater Chen on Balanc			
LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	YEAR: 2020 HLYO	TIME	WATER	SOIL	HCL	HNO3	None		# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH 8015M (Total Metals Ag	TCLP Metals Ag	TCLP Volatiles	RC!	GC/MS Vol.	GC/MS Semi. Vol. 82/0C/R PCB's 8082 / 608	NORM	PLM (Asbestos) Chloride	Chloride Sulfate TDS	General Water Chemi Anion/Cation Balance			Hold
	BH-102 (5')	5/6/2022		X			Х					х	X					Ц		Ш	X	Ц	\bot	\sqcup	4_	\perp
	BH-103 (5')	5/6/2022		X			Х					x	Х	\perp	Ц	\perp	┸		\perp	Ц	X	Ш	\bot	Ш		\perp
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Relinquished by	BH-111 (5') Date: Time: 5/6/22 15 23	5/6/2022 Received by:	u (V-	\ \ -		Date	Le	Time				L	AB U					ST	AND				40.5	. 70		
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Analysis Req	uest of Chain of Custody Record																	_				P	age	,		3	of _	3
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Client Name:	Permian Water Solutions	Site Manager:		Cla	air (Gor	nzale	s							/C:	-01					EQU		T od	No				
Project Name:	Kaiser SWD												1	11	(C)	rcie 		3	pec) 	INIE				., 	11	1	
Project Location: (county, state)	Lea County, New Mexico	Project #:			212	2C-	-MD-	022	30																list)			
Invoice to:	Dusty McInturff - Permian Water Solutions													MRO)	5	위 위									attached			
Receiving Laborate	ory: Eurofins Xenco	Sampler Signa	ature:		Eze	equ	uiel N	/lore	no				_m	ORO.	8	Pb Se	П			2	11				(see att			
Comments:													(8260B	DRO - (2	D PO E			624	8270C/625				181	≥			
		SAMP	LING	М	ATF	RIX	Р		RVATI THOD	VE	RS	(Ž	BTEX	8015M (GRO - DRO - ORO - MRO)	à	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	s	olatiles	GC/MS Vol. 8260B / 624	Vol. 82	809	(V)	2	ulfate	er Chemistry Ralance	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
LAB#	SAMPLE IDENTIFICATION	YEAR: 2020		~							TAINE	RED (Y	8021B	015M (270C	Aetals /	/olatile	Semi V	Vol. 8	Semi	8082 /	NORM PLM (Asbestos)	e	e S	al Wate	0000		
(LAB USE)		DATE	TIME	WATER	SOIL		된	S L	None		# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH 8	PAH 8270C	TCLP	TCLP Volatiles	TCLP (GC/MS	GC/MS	PCB's 8082 / 508	NCKM PLM	Chloride	Chloric	General Water Chemis	2		Hold
	BH-112 (5')	5/6/2022		Т	Х			\	$\langle $				x	Х					L		Ц		Х	Ш	\perp	Ш	\perp	
	BH-113 (5')	5/6/2022		Т	Х			>	<				x	х						Ц	Ц	\perp	X	Ш	\perp	Ш		
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Relinquished by:	Date: Time:	Received by:	:		_		Date):	Tim	e:													norize		RP R	eport		
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5/16/2022

Eurofins Carlsbad

1089 N Canal St Carlsbad, NM 88220

Chain of Custody Record



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Environment Testing America

Phone: 575-988-3199 Fax. 575-988-3199																					Milienca		
Client Information (Sub Contract Lab)	Sampler ⁻				PM		aiaa			***************************************			Carrie	r Track	ing N	o(s)				COC No			
Client Contact:	Phone:			E-M		r Jes	sica						State	of Orig	in:					390-747 1 Page:			
Shipping/Receiving Company				Jes					urofins		m			Mexi						Page 1 of 3			
Eurofins Environment Testing South Centr						credita ELAF			red (See	note).										lob #: 390-2290-1			
Address	Due Date Requeste	ed			+															Preservation Code	s		
1211 W Florida Ave City	5/12/2022 TAT Requested (da	ava).			71579	S bearing				Analy	/sis	Req	ues	ted				1357		A HCL	M Hexane	9	
Midland	IAI Requested (da	ays):				100														B - NaOH C Zn Acetate	N None O AsNaO		
State, Zip: TX, 79701																		e mountains	9	D - Nitric Acid E NaHSO4	P - Na2O48 Q Na2SO	S 13	
Phone: 432-704-5440(Tel)	PO#-				٦	Ę	Ŧ											andious de			R Na2S20 S H2SO4 T TSP Do		
Email	WO#		<u> </u>		٦ž	_	3			l								7	<u>ه</u> ا ا	l Ice	U Acetone		ласе
Project Name ⁻	Project#				- š	or No)	P G								1				۲ I		V MCAA W - pH 4-5		
Kaiser SWD Site:	88001057				_ <u>@</u>		S			İ					1					L EDA	Z other (s	pecify)	
Office	SSOW#:				Ę	اوّا	16 <u>N</u>								-				<u> </u>	Other [,]			
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oli, BT=Tissue, A=Al	Field Filtered S	Perform MS/MSD (Yes	8015MOD_NM/8015NM_S_Prep Full	8016MOD_Calc											Total Number o	Special Ins	truction	-/Noto	
		><		tion Code:		X												1	*	opeciai ilis	uuctions	SHOLE	
BH-92 (890-2290-1)	5/6/22	Mountain		Solid			Χ	х	notes military	<u> </u>	3 11.000		hora hora d	.v					1				Mary debut and a second
BH-93 (890-2290-2)	5/6/22	Mountain		Solid	T		Х	Х		1					\dashv		_		ì				
BH-94 (890-2290-3)	5/6/22	Mountain		Solid	1	\Box	х	х						\dashv					1				
BH-95 (890-2290-4)	5/6/22	Mountain		Solid			Х	х									Ī		1				
BH-96 (890-2290-5)	5/6/22	Mountain		Solid			Х	х										1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1				
BH-97 (890-2290-6)	5/6/22	Mountain		Solid			Х	х											1				-
BH-98 (890-2290-7)	5/6/22	Mountain		Solid			х	х											1				
BH-99 (890-2290-8)	5/6/22	Mountain		Solid			Х	х											1				
BH-100 (890-2290-9)	5/6/22	Mountain		Solid			Х	х										8.	1				
Note Since laboratory accreditations are subject to change Eurofins Environment laboratory does not currently maintain accreditation in the State of Origin listed ab accreditation status should be brought to Eurofins Environment Testing South Cer																							
Possible Hazard Identification						San	nple	Disp	osal (A fee	may	be a	sses	sed in	san	nples	are	reta	ine	d longer than 1 i	month)		
Unconfirmed	<u> </u>						^{-J}R	eturn	To Cli	ent	l		ispos	sal By	/ Lab] Ar	rchi	ve For	Month:	s	
Deliverable Requested I II III IV Other (specify)	Primary Delivera	able Rank 2	2			Spe	cıal	Instru	ictions/	QC R	equir	emer	nts.										***************************************
Empty Kit Relinquished by		Date			Ti	me:	7				$\overline{\wedge}$			Metho	d of SI	hipmer	nt:						
Relinquished by Relinquished by Relinquished by	Date/Time			Company	L		Rece	(ved)	111	1)	(t				ľ	Date/Ti	m	7	6	PA T	Company		
Relinquished by	Date/Time			Company			Rece	eived by	بحل	<u> </u>					Ē	Date/Ti	mel	+		, <u>y</u>	Company		
Relinquished by	Date/Time			Company			Rece	ived b	<i>y</i>						Ī	Date/Ti	me				Company		
Custody Seals Intact: Custody Seal No	L						Cool	er Tem	perature	(s) °C a	nd Otl	ner Rei	marks								L		

Custody Seals Intact:

△ Yes △ No

Custody Seal No

Chain of Custody Record

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Environment Testing America 5/16/2022

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Eurofins Carlsbad

1089 N Canal St Carlsbad NM 88220

Phone. 575-988-3199 Fax 575-988-3199

1 Hone: 575-566-5159 1 ax 575-566-5159																					
Client Information (Sub Contract Lab)	Sampler ⁻				PM amer	Jessi	ica						Carrie	r Track	ing No((s)		1	COC No: 890-747 2		
Client Contact: Shipping/Receiving	Phone				Mail	Vrom								of Orig					Page		
Company Cooking				Jes					rofins ed (See		m		New	Mexi	30				Page 2 of 3		
Eurofins Environment Testing South Centr						LAP -			(···			890-2290-1		
1211 W Florida Ave	Due Date Request 5/12/2022	ed								\nal	ysis	Rec	ues	ted					Preservation Code		
City	TAT Requested (d	ays):					Т	T		Τ	T			T	T	T	Т		A HCL B NaOH	M Hexane N None	
Midland State Zip:						As Alleran												1	C Zn Acetate D Nitric Acid	O AsNaO2 P Na2O4S	
TX 79701					-	A Contraction												2	E NaHSO4	Q Na2SO3	
Phone 432-704-5440(Tel)	PO #:					l l	E											1. 3	F MeOH G Amchlor	R Na2S2O3 S H2SO4	
Email	WO#-				-[일	7				İ				i				X X	H Ascorbic Acid I Ice	T TSP Dodecahyd	rate
Project Name	Project #:				 ≩	S .	<u>a</u>		1							1		2	J DI Water K EDTA	V MCAA W pH 4-5	
Kaiser SWD	88001057				₹	88 0	2		1									containers	L EDA	Z other (specify)	
Site	SSOW#					۵	8015MOD_NM/8015NM_S_Prep Full												Other [.]		
		T			닉꺏	USP	[]	္										er of			
			Sample	Matrix (w=water	Ken	2		8015MOD_Calc										Total Number			
		Sample	Type (C=comp,	S=solid O=waste/oil,	id bi			O NO										Ž			
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab)	BT=Tissue, A=A	ur) 🛅	a S	S 3	89										Þ	Special In	structions/Note	
		\geq	Preserva	ition Code:	-X	X_{\perp}	1											\boxtimes			4
BH-101 (890-2290-10)	5/6/22	Mountain		Solid			x :	х							1						
BH-102 (890-2290-11)	5/6/22	Mountain		Solid			x :	х										1			
BH-103 (890-2290-12)	5/6/22	Mountain		Solid	П		Χ .	х										à			
BH-104 (890-2290-13)	5/6/22	Mountain		Solid	П		X .	х										1		<u> </u>	
BH-105 (890-2290-14)	5/6/22	Mountain		Solid			x	x										1			
BH-106 (890-2290-15)	5/6/22	Mountain		Solid			x .	x										4			
BH-107 (890-2290-16)	5/6/22	Mountain		Solid			x	x			1				1			4			
BH-108 (890-2290-17)	5/6/22	Mountain		Solid			x	х										1			
BH-109 (890-2290-18)	5/6/22	Mountain		Solid			X .	x			†		<u> </u>		十			4			
Note. Since laboratory accreditations are subject to change Eurofins Enviro	nment Testing South Cent	ral LLC places	the ownership	of method a	nalyte	& accre	editatio	on co	moliano	e upor	out su	bcont	act la	oratori	es Th	is samr	le shini	ment	is forwarded under cl	nain_of_custody If the	
laboratory does not currently maintain accreditation in the State of Origin list accreditation status should be brought to Eurofins Environment Testing Sou	ed above for analysis/tests	s/matrix being a	inalyzed the s	amoles must	he shin	nned ha	nck to	the F	urofine l	Enviro	nmont'	Tectin	a Sout	n Cant	~l I I ∩	lahora	OD! OF	other	rineta otione will be no	outdool Approhauses	44
Possible Hazard Identification					u.o ou.																U.
Unconfirmed						Sam			osai (. To Clie						r sam _l / Lab	pies a			ed longer than 1 hive For	•	
Deliverable Requested I II III IV Other (specify)	Primary Deliver	able Rank.	2			Spec			ctions/					sai By	Lab			Arcn	live For	Months	
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Relinquished by C C E S O	Date/Time	1		Company		R	ceig	ed ply		1 1	1			L	D	ate/Tim	ر (سو	$\overline{\gamma}$	120	Company	
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	Date: 11116			Company		الا	eceive	eu by							וטו	ate/Tim	e- (•	Company	
Relinquished by	Date/Time ⁻			Company		R	eceive	ed by						***************************************	D	ate/Tim	e.			Company	

Cooler Temperature(s) °C and Other Remarks.

Eurofins Carlsbad 1089 N Canal St.

Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record

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Environment Testing America 5/16/2022

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Client Information (Sub Contract Lab)	Sampler [.]			Lab PN Kram		essica					С	arrier Tr	acking N	Vo(s)			OC No		· 1	
Client Contact:	Phone			E-Mail		Coolca	a				S	tate of C	rigin			Pa	0-747 3 ge:			
Shipping/Receiving Company	<u> </u>							eurofin		m		lew Me					age 3 of 3			
Eurofins Environment Testing South Centr						ditations AP - T		ired (Se	e note):								o #. 10-2290-1			
Address. 1211 W Florida Ave	Due Date Requeste 5/12/2022	əd							Anal	volo	Requ						eservation C	Codes		
City Midland	TAT Requested (da	ıys):				4			Allai	ysis	Requ	estet	<u>.</u>		T		HCL NaOH		1 - Hexane	
State Zip	-												1 1			С	Zn Acetate	Ċ		
TX 79701					1											E	Nitric Acid NaHSO4	F	1442.040	
Phone 432-704-5440(Tel)	PO #:				1	1 =											MeOH Amchlor	F	R Na2S2O3 S H2SO4	
Email	WO#				윈_	8016MOD_NM/8016NM_S_Prep Full TPH										्री ।	Ascorbic Acid	id T	TSP Dode J Acetone	cahydrate
Project Name	Project #				Yes or or No.	de J										g K	DI Water EDTA		/ MCAA V pH 4-5	l
Kaiser SWD Site	88001057				ءُ افِ	ြွ											EDA		other (spe	cify)
Site	SSOW#				ered Sample (MS/MSD (Yes	16NN			Ì								her·			
			Sample	Matrix		NW/8	l Se													
			Type	W=water S≃solid,	Ë Ē	8	8015MOD_Cale									ag wind				
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	(C=comp, o G=grab) BT=1	=waste/oil,	Fleid Filt	916N	016N								Total	a				
			Preservation	TOTAL CONTRACTOR STORY) *	®		Appen					-] -	Special	<u>l Inst</u>	ructions/I	Vote
BH-110 (890-2290-19)	5/6/22	Mountain		Solid		X	Х	<u> </u>			0				† K	1		Commence of the Commence of th		
BH-111 (890-2290-20)	5/6/22	Mountain		Solid	十	Х	х	_				_		-	1					
BH-112 (890-2290-21)	5/6/22	Mountain		Solid	\top	х	х	\neg				+		_		1				
BH-113 (890-2290-22)	5/6/22	Mountain		Solid	\top	Х	x		-			 				100				
SW-34 (890-2290-23)	5/6/22	Mountain		Solid	1	Х	х						\Box			1				
SW-35 (890-2290-24)	5/6/22	Mountain		Solid	T	х	х									1				
SW-36 (890-2290-25)	5/6/22	Mountain		Solid		х	х								14	1				
SW-37 (890-2290-26)	5/6/22	Mountain		Solid		х	х									1				
Note Since laboratory accreditations are subject to change Eurofins Environment laboratory does not currently maintain accreditation in the State of Origin listed aboratory	Testing South Central	al LLC places	the ownership of m	ethod analy	rte & a	ccredita	ation co	ompliand	e upon	out sub	ocontract	laborat	ories T	his samp	le shipme	nt is fo	orwarded unde	er chair	n-of-custody	If the
laboratory does not currently maintain accreditation in the State of Origin listed ab- accreditation status should be brought to Eurofins Environment Testing South Cer	tral LLC attention im	mediately If a	nalyzed the sample Il requested accred	es must be s ditations are	curren	d back to it to date	to the E e retur	Eurofins m the si	Enviror ned Cl	nment T nain of (esting S Custody	outh Ce attesting	ntral LL to said	C laborat complica	tory or oth ance to Eu	er inst ırofins	ructions will be Environment	e provin	ded Any cha	anges to ral LLC.
Possible Hazard Identification																	longer thai			
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Deliverable Requested I II III IV Other (specify)	Primary Delivera	ible Rank. 2			Sp	oecial	Instru	ctions	QC R	equire	ements									
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Custody Seals Intact ⁻ Custody Seal No Δ Yes Δ No	L					Coole	er Tem	perature	(s) °C a	and Othe	er Rema	rks.								

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2290-1

SDG Number: Lea County NM

List Source: Eurofins Carlsbad

Login Number: 2290 List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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7

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11

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2290-1 SDG Number: Lea County NM

List Source: Eurofins Midland

List Creation: 05/09/22 12:39 PM

List Number: 2 Creator: Teel, Brianna

Login Number: 2290

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

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<6mm (1/4").

Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2290-2

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Kaiser SWD

For:

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Clair Gonzales

SCRAMER

Authorized for release by: 5/16/2022 4:19:36 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-2290-2 SDG: Lea County NM

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Definitions/Glossary

Job ID: 890-2290-2 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

*1 LCS/LCSD RPD exceeds control limits.

S1+ Surrogate recovery exceeds control limits, high biased. U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Tetra Tech, Inc.

Job ID: 890-2290-2

Project/Site: Kaiser SWD

SDG: Lea County NM

Job ID: 890-2290-2

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2290-2

Receipt

The samples were received on 5/6/2022 3:23 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 11.8°C

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-25199/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-25199 and analytical batch 880-25231 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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ANALYSIS TABLE

Client: Tetra Tech, Inc.

Job ID: 890-2290-2 SDG: Lea County NM

Project/Site: Kaiser SWD

Lab Sample ID: 890-2290-23

Client Sample ID: SW-34 Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 0 - 5

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/14/22 12:37	05/15/22 01:36	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/14/22 12:37	05/15/22 01:36	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/14/22 12:37	05/15/22 01:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/14/22 12:37	05/15/22 01:36	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/14/22 12:37	05/15/22 01:36	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/14/22 12:37	05/15/22 01:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			05/14/22 12:37	05/15/22 01:36	1
1,4-Difluorobenzene (Surr)	98		70 - 130			05/14/22 12:37	05/15/22 01:36	1
Method: Total BTEX - Total BTEX		0 115	5 .		_			D.: E
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/16/22 16:56	1
ି Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)			_			·
- -	e Organics (DR		RL	Unit	D	Prepared	Analyzed	·
ି Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)			<u>D</u>	Prepared		
Method: 8015 NM - Diesel Range Analyte	Organics (DR) Result 1520	O) (GC) Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	
Method: 8015 NM - Diesel Range Analyte Total TPH	e Organics (DR Result 1520 ge Organics (D	O) (GC) Qualifier	RL	Unit	D	Prepared Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang	e Organics (DR Result 1520 ge Organics (D	O) (GC) Qualifier RO) (GC) Qualifier	RL 49.9	Unit mg/Kg			Analyzed 05/11/22 10:27	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	e Organics (DR Result 1520 ge Organics (DI Result	O) (GC) Qualifier RO) (GC) Qualifier	RL 49.9	Unit mg/Kg		Prepared	Analyzed 05/11/22 10:27 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (DR) Result 1520 ge Organics (DR) Result 1100 422	O) (GC) Qualifier RO) (GC) Qualifier *1	RL 49.9 RL 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 05/09/22 16:33 05/09/22 16:33	Analyzed 05/11/22 10:27 Analyzed 05/10/22 20:10 05/10/22 20:10	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte C6-C10 Diesel Range Organics (Over	e Organics (DR Result 1520 ge Organics (DR Result 1100	O) (GC) Qualifier RO) (GC) Qualifier *1	RL 49.9	Unit mg/Kg Unit mg/Kg		Prepared 05/09/22 16:33	Analyzed 05/11/22 10:27 Analyzed 05/10/22 20:10	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (DR) Result 1520 ge Organics (DR) Result 1100 422	O) (GC) Qualifier RO) (GC) Qualifier *1	RL 49.9 RL 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 05/09/22 16:33 05/09/22 16:33	Analyzed 05/11/22 10:27 Analyzed 05/10/22 20:10 05/10/22 20:10	Dil Fac Dil Fac 1 1 1
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (DR Result 1520 ge Organics (DR Result 1100 422 <49.9	O) (GC) Qualifier RO) (GC) Qualifier *1	RL 49.9 RL 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 05/09/22 16:33 05/09/22 16:33	Analyzed 05/11/22 10:27 Analyzed 05/10/22 20:10 05/10/22 20:10	Dil Fac Dil Fac

Client Sample ID: SW-35

Analyte

Chloride

Method: 300.0 - Anions, Ion Chromatography - Soluble

Method: 8021B - Volatile Organic Compounds (GC)

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23 Sample Depth: 0 - 5

REMOVED FROM ANALYSIS TABLE

Result Qualifier

1170

Lab Sample ID: 890-2290-24

Analyzed

05/12/22 13:19

Matrix: Solid

Dil Fac

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/14/22 12:37	05/15/22 02:02	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/14/22 12:37	05/15/22 02:02	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/14/22 12:37	05/15/22 02:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/14/22 12:37	05/15/22 02:02	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/14/22 12:37	05/15/22 02:02	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/14/22 12:37	05/15/22 02:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

RL

24.8

Unit

mg/Kg

D

Prepared

4-Bromofluorobenzene (Surr) 103 70 - 130 05/14/22 12:37 05/15/22 02:02 1,4-Difluorobenzene (Surr) 101 70 - 130 05/14/22 12:37 05/15/22 02:02

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2290-2

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-35

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23 Sample Depth: 0 - 5

Method: Total BTEX - Total BTEX Calculation

Method: 300.0 - Anions, Ion Chromatography - Soluble

REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-2290-24

Matrix: Solid

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Analyte Result Qualifier Unit Dil Fac RL D Prepared Analyzed Total BTEX <0.00398 U 0.00398 05/16/22 16:56 mg/Kg Method: 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Total TPH 49.9 mg/Kg 05/11/22 10:27 435 Method: 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier Analyte RL Unit D Prepared Analyzed Dil Fac C6-C10 <49.9 U *1 49.9 05/09/22 16:33 05/10/22 20:32 mg/Kg 05/09/22 16:33 05/10/22 20:32 **Diesel Range Organics (Over** 49.9 435 mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 05/09/22 16:33 05/10/22 20:32 %Recovery Qualifier Limits Surrogate Prepared Analyzed Dil Fac 70 - 130 05/09/22 16:33 1-Chlorooctane (Surr) 118 05/10/22 20:32 o-Terphenyl (Surr) 116 70 - 130 05/09/22 16:33 05/10/22 20:32

RL

24.8

Unit

mg/Kg

D

Prepared

Client Sample ID: SW-36

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 0 - 5

Analyte

Chloride

REMOVED FROM ANALYSIS TABLE

Result Qualifier

1150

Lab Sample ID: 890-2290-25

Analyzed

05/12/22 13:46

Matrix: Solid

Dil Fac

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.100	U	0.100	mg/Kg		05/14/22 12:37	05/15/22 03:46	50
Toluene	<0.100	U	0.100	mg/Kg		05/14/22 12:37	05/15/22 03:46	50
Ethylbenzene	<0.100	U	0.100	mg/Kg		05/14/22 12:37	05/15/22 03:46	50
m-Xylene & p-Xylene	<0.201	U	0.201	mg/Kg		05/14/22 12:37	05/15/22 03:46	50
o-Xylene	<0.100	U	0.100	mg/Kg		05/14/22 12:37	05/15/22 03:46	50
Xylenes, Total	<0.201	U	0.201	mg/Kg		05/14/22 12:37	05/15/22 03:46	50
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			05/14/22 12:37	05/15/22 03:46	50
1,4-Difluorobenzene (Surr)	97		70 - 130			05/14/22 12:37	05/15/22 03:46	50
_								
Method: Total BTEX - Total BT	EX Calculation							
Method: Total BTEX - Total BT Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier U	RL 0.201	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/16/22 16:56	Dil Fac
Analyte	Result <0.201	U			<u>D</u>	Prepared		Dil Fac
Analyte Total BTEX	Result <0.201	U			<u>D</u>	Prepared Prepared		Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Ran	Result <0.201	U (GC)	0.201	mg/Kg	<u> </u>		05/16/22 16:56	1
Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte	Result <0.201 age Organics (DR Result 4280	O) (GC) Qualifier	0.201	mg/Kg	<u> </u>		05/16/22 16:56 Analyzed	1
Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH	rige Organics (DR) Result 4280 Ange Organics (DI)	O) (GC) Qualifier	0.201	mg/Kg	<u> </u>		05/16/22 16:56 Analyzed	1

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2290-2

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-36

Date Collected: 05/06/22 00:00
Date Received: 05/06/22 15:23

REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-2290-25

Matrix: Solid

Sample Depth: 0 - 5

Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC) (C	Continued)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	4130		50.0	mg/Kg		05/09/22 16:33	05/10/22 19:48	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/09/22 16:33	05/10/22 19:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	124		70 - 130			05/09/22 16:33	05/10/22 19:48	1
o-Terphenyl (Surr)	126		70 - 130			05/09/22 16:33	05/10/22 19:48	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1980		25.0	mg/Kg			05/12/22 13:55	5

Lab Sample ID: 890-2290-26

Matrix: Solid

Client Sample ID: SW-37 Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23 Sample Depth: 0 - 5

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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0500	U	0.0500	mg/Kg		05/14/22 12:37	05/15/22 04:13	25
Toluene	<0.0500	U	0.0500	mg/Kg		05/14/22 12:37	05/15/22 04:13	25
Ethylbenzene	<0.0500	U	0.0500	mg/Kg		05/14/22 12:37	05/15/22 04:13	25
m-Xylene & p-Xylene	<0.100	U	0.100	mg/Kg		05/14/22 12:37	05/15/22 04:13	25
o-Xylene	<0.0500	U	0.0500	mg/Kg		05/14/22 12:37	05/15/22 04:13	25
Xylenes, Total	<0.100	U	0.100	mg/Kg		05/14/22 12:37	05/15/22 04:13	25
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			05/14/22 12:37	05/15/22 04:13	25
1,4-Difluorobenzene (Surr)	102		70 - 130			05/14/22 12:37	05/15/22 04:13	25
Method: Total BTEX - Total BTEX	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.100	U	0.100	mg/Kg			05/16/22 16:56	1
- -			0.100	mg/Kg			05/16/22 16:56	1
Total BTEX Method: 8015 NM - Diesel Range Analyte	e Organics (DR		0.100 RL	mg/Kg Unit	D	Prepared	05/16/22 16:56 Analyzed	1 Dil Fac
: Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)			<u>D</u>	Prepared		Dil Fac
Method: 8015 NM - Diesel Range Analyte	e Organics (DR Result 346	O) (GC) Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	
Method: 8015 NM - Diesel Range Analyte Total TPH	e Organics (DR Result 346 ge Organics (D	O) (GC) Qualifier	RL	Unit	<u>D</u>	Prepared Prepared	Analyzed	1
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang	e Organics (DR Result 346 ge Organics (D	O) (GC) Qualifier RO) (GC) Qualifier	RL	Unit mg/Kg	<u> </u>		Analyzed 05/11/22 10:27	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	e Organics (DR Result 346 ge Organics (DI Result	O) (GC) Qualifier RO) (GC) Qualifier	RL 	Unit mg/Kg	<u> </u>	Prepared	Analyzed 05/11/22 10:27 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte C6-C10	e Organics (DR Result 346 ge Organics (DR Result <50.0	O) (GC) Qualifier RO) (GC) Qualifier	RL 50.0	Unit mg/Kg Unit mg/Kg	<u> </u>	Prepared 05/09/22 16:33	Analyzed 05/11/22 10:27 Analyzed 05/10/22 20:53	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte C6-C10 Diesel Range Organics (Over	e Organics (DR Result 346 ge Organics (DR Result <50.0	Qualifier RO) (GC) Qualifier U *1	RL 50.0	Unit mg/Kg Unit mg/Kg	<u> </u>	Prepared 05/09/22 16:33	Analyzed 05/11/22 10:27 Analyzed 05/10/22 20:53	1 Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	e Organics (DR Result 346 ge Organics (DR Result <50.0	Qualifier RO) (GC) Qualifier U *1	RL 50.0 FL 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 05/09/22 16:33 05/09/22 16:33	Analyzed 05/11/22 10:27 Analyzed 05/10/22 20:53 05/10/22 20:53	Dil Fac 1 1 1
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (DR Result 346 ge Organics (DR Result <50.0 346 <50.0	Qualifier RO) (GC) Qualifier U *1	RL 50.0 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 05/09/22 16:33 05/09/22 16:33	Analyzed 05/11/22 10:27 Analyzed 05/10/22 20:53 05/10/22 20:53	

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2290-2

Project/Site: Kaiser SWD

SDG: Lea County NM

RL

25.3

Unit

mg/Kg

D

Prepared

Client Sample ID: SW-37

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23 Sample Depth: 0 - 5

Analyte

Chloride

Method: 300.0 - Anions, Ion Chromatography - Soluble

REMOVED FROM ANALYSIS TABLE

Result Qualifier

1510

Lab Sample ID: 890-2290-26

Analyzed

05/12/22 14:05

Matrix: Solid

Dil Fac

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14

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 890-2290-2 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-2290-23	SW-34	99	98	
90-2290-24	SW-35	103	101	
890-2290-25	SW-36	99	97	
390-2290-26	SW-37	102	102	
890-2290-A-10-E MS	Matrix Spike	103	108	
390-2290-A-10-F MSD	Matrix Spike Duplicate	87	96	
_CS 880-25564/1-A	Lab Control Sample	101	100	
LCSD 880-25564/2-A	Lab Control Sample Dup	96	107	
MB 880-25564/5-A	Method Blank	77	92	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Sample ID	Client Sample ID	(70-130)	(70-130)	
4554-A-1-C MS	Matrix Spike	109	108	
4554-A-1-D MSD	Matrix Spike Duplicate	94	94	
290-23	SW-34	108	106	
290-24	SW-35	118	116	
290-25	SW-36	124	126	
290-26	SW-37	108	108	
880-25199/2-A	Lab Control Sample	123	124	
D 880-25199/3-A	Lab Control Sample Dup	129	132 S1+	
380-25199/1-A	Method Blank	99	103	

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

Job ID: 890-2290-2 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-25564/5-A

Lab Sample ID: LCS 880-25564/1-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 25561

Analysis Batch: 25561

Analysis Batch: 25561

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25564

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 18:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 18:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 18:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/14/22 12:37	05/14/22 18:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:37	05/14/22 18:01	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/14/22 12:37	05/14/22 18:01	1

MB MB

MD MD

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77	70 - 130	05/14/22 12:37	05/14/22 18:01	1
1,4-Difluorobenzene (Surr)	92	70 ₋ 130	05/14/22 12:37	05/14/22 18:01	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25564

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1104 mg/Kg 110 70 - 130 Toluene 0.100 0.1137 mg/Kg 114 70 - 130 0.100 Ethylbenzene 0.1151 mg/Kg 115 70 - 130 0.200 0.2290 70 - 130 m-Xylene & p-Xylene mg/Kg 115 0.100 0.1106 70 - 130 o-Xylene mg/Kg 111

LCS LCS

Surrogate	%Recovery Qualif	ier Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25564

	Spike	LCSD LCSD				%Rec		RPD
Analyte	Added	Result Qualif	ier Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1232	mg/Kg		123	70 - 130	11	35
Toluene	0.100	0.1126	mg/Kg		113	70 - 130	1	35
Ethylbenzene	0.100	0.1066	mg/Kg		107	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2139	mg/Kg		107	70 - 130	7	35
o-Xylene	0.100	0.1122	mg/Kg		112	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1.4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-2290-A-10-E MS

Lab Sample ID: LCSD 880-25564/2-A

Matrix: Solid

Analysis Batch: 25561

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 25564

		Sample	Sample	Spike	MS	MS				%Rec	
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Benzene	<0.00199	U	0.101	0.1011		mg/Kg	_	100	70 - 130	
١	Toluene	<0.00199	U	0.101	0.09136		mg/Kg		91	70 - 130	

Prep Batch: 25564

Prep Type: Total/NA

Prep Batch: 25199

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2290-2 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2290-A-10-E MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid Analysis Batch: 25561

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00199	U	0.101	0.08965		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.201	0.1797		mg/Kg		89	70 - 130	
o-Xylene	<0.00199	U	0.101	0.08784		mg/Kg		87	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 103 1,4-Difluorobenzene (Surr) 108 70 - 130

Client Sample ID: Matrix Spike Duplicate Lab Sample ID: 890-2290-A-10-F MSD

Matrix: Solid

Analysis Batch: 25561									Prep	Batch:	25564
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.100	0.08471		mg/Kg		85	70 - 130	18	35
Toluene	< 0.00199	U	0.100	0.08214		mg/Kg		82	70 - 130	11	35
Ethylbenzene	< 0.00199	U	0.100	0.08185		mg/Kg		82	70 - 130	9	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1660		mg/Kg		83	70 - 130	8	35
o-Xylene	<0.00199	U	0.100	0.07935		mg/Kg		79	70 - 130	10	35

MSD MSD Surrogate Qualifier Limits %Recovery 87 70 - 130 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 96 70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-25199/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 25231

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0	mg/Kg		05/09/22 16:33	05/10/22 11:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/09/22 16:33	05/10/22 11:21	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/09/22 16:33	05/10/22 11:21	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130	05/09/22 16:33	05/10/22 11:21	1
o-Terphenyl (Surr)	103		70 - 130	05/09/22 16:33	05/10/22 11:21	1

Lab Sample ID: LCS 880-25199/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid Prep Type: Total/NA

Analysis Batch: 25231

-	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
C6-C10	1000	858.3		mg/Kg		86	70 - 130	
Diesel Range Organics (Over	1000	1226		mg/Kg		123	70 - 130	

C10-C28)

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Prep Batch: 25199

Job ID: 890-2290-2 SDG: Lea County NM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-25199/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 25231

Pre	p Type: Total/NA
Pi	rep Batch: 25199

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane (Surr) 123 70 - 130 o-Terphenyl (Surr) 124 70 - 130

Lab Sample ID: LCSD 880-25199/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid			Prep Type: Tot	.al/NA
Analysis Batch: 25231			Prep Batch: 2	25199
	Spike	LCSD LCSD	%Rec	RPD

Analyte Added Result Qualifier Unit %Rec Limits RPD Limit C6-C10 1000 1077 108 70 - 13023 20 mg/Kg Diesel Range Organics (Over 1000 1304 mg/Kg 130 70 - 130 20 C10-C28)

LCSD LCSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane (Surr) 129 70 - 130 o-Terphenyl (Surr) 132 S1+ 70 - 130

Client Sample ID: Matrix Spike Lab Sample ID: 880-14554-A-1-C MS

Matrix: Solid

C10-C28)

C10-C28)

Analysis Batch: 25231									Prep	Batch: 25199
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
C6-C10	<50.0	U *1	1000	1064		mg/Kg		106	70 - 130	
Diesel Range Organics (Over	<50.0	U	1000	1112		ma/Ka		109	70 - 130	

MS MS %Recovery Qualifier Surrogate Limits 1-Chlorooctane (Surr) 109 70 - 130 o-Terphenyl (Surr) 108 70 - 130

Lab Sample ID: 880-14554-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 25231									Prep	Batch:	25199
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
C6-C10	<50.0	U *1	998	899.1		mg/Kg	_	90	70 - 130	17	20
Diesel Range Organics (Over	<50.0	U	998	969.3		mg/Kg		95	70 - 130	14	20

MSD MSD %Recovery Surrogate Qualifier Limits 1-Chlorooctane (Surr) 94 70 - 130 94 70 - 130 o-Terphenyl (Surr)

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Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

QC Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2290-2

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-25414/1-A

Matrix: Solid

Analysis Batch: 25429

MB MB

 Analyte
 Result Chloride
 Qualifier
 RL Unit
 Unit mg/Kg
 D Prepared
 Analyzed Analyzed
 Dil Fac Dil Fa

Lab Sample ID: LCS 880-25414/2-A

Matrix: Solid

Analysis Batch: 25429

Spike LCS LCS %Rec Added %Rec Analyte Result Qualifier Unit D Limits Chloride 250 245.3 mg/Kg 98 90 - 110

Lab Sample ID: LCSD 880-25414/3-A

Matrix: Solid

Analysis Batch: 25429

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 245.1 mg/Kg 90 - 110

Lab Sample ID: 880-14738-A-1-B MS

Matrix: Solid

Analysis Batch: 25429

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Qualifier %Rec Result Unit Limits 438.3 Chloride 208 248 90 - 110 mg/Kg

Lab Sample ID: 880-14738-A-1-C MSD

Matrix: Solid

Analysis Batch: 25429

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 248 208 435.7 mg/Kg 92 90 - 110 20

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QC Association Summary

Job ID: 890-2290-2 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

GC VOA

Analysis Batch: 25561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-23	SW-34	Total/NA	Solid	8021B	25564
890-2290-24	SW-35	Total/NA	Solid	8021B	25564
890-2290-25	SW-36	Total/NA	Solid	8021B	25564
890-2290-26	SW-37	Total/NA	Solid	8021B	25564
MB 880-25564/5-A	Method Blank	Total/NA	Solid	8021B	25564
LCS 880-25564/1-A	Lab Control Sample	Total/NA	Solid	8021B	25564
LCSD 880-25564/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25564
890-2290-A-10-E MS	Matrix Spike	Total/NA	Solid	8021B	25564
890-2290-A-10-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	25564

Prep Batch: 25564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-23	SW-34	Total/NA	Solid	5035	_
890-2290-24	SW-35	Total/NA	Solid	5035	
890-2290-25	SW-36	Total/NA	Solid	5035	
890-2290-26	SW-37	Total/NA	Solid	5035	
MB 880-25564/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25564/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25564/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2290-A-10-E MS	Matrix Spike	Total/NA	Solid	5035	
890-2290-A-10-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 25659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-23	SW-34	Total/NA	Solid	Total BTEX	
890-2290-24	SW-35	Total/NA	Solid	Total BTEX	
890-2290-25	SW-36	Total/NA	Solid	Total BTEX	
890-2290-26	SW-37	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 25199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-23	SW-34	Total/NA	Solid	8015NM Prep	-
890-2290-24	SW-35	Total/NA	Solid	8015NM Prep	
890-2290-25	SW-36	Total/NA	Solid	8015NM Prep	
890-2290-26	SW-37	Total/NA	Solid	8015NM Prep	
MB 880-25199/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-25199/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-25199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-14554-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-14554-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 25231

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-23	SW-34	Total/NA	Solid	8015B NM	25199
890-2290-24	SW-35	Total/NA	Solid	8015B NM	25199
890-2290-25	SW-36	Total/NA	Solid	8015B NM	25199
890-2290-26	SW-37	Total/NA	Solid	8015B NM	25199
MB 880-25199/1-A	Method Blank	Total/NA	Solid	8015B NM	25199
LCS 880-25199/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	25199

QC Association Summary

Client: Tetra Tech, Inc. Job ID: 890-2290-2 Project/Site: Kaiser SWD SDG: Lea County NM

GC Semi VOA (Continued)

Analysis Batch: 25231 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-25199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	25199
880-14554-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	25199
880-14554-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	25199

Analysis Batch: 25344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-23	SW-34	Total/NA	Solid	8015 NM	
890-2290-24	SW-35	Total/NA	Solid	8015 NM	
890-2290-25	SW-36	Total/NA	Solid	8015 NM	
890-2290-26	SW-37	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 25414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-23	SW-34	Soluble	Solid	DI Leach	
890-2290-24	SW-35	Soluble	Solid	DI Leach	
890-2290-25	SW-36	Soluble	Solid	DI Leach	
890-2290-26	SW-37	Soluble	Solid	DI Leach	
MB 880-25414/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-25414/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-25414/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-14738-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-14738-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 25429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2290-23	SW-34	Soluble	Solid	300.0	25414
890-2290-24	SW-35	Soluble	Solid	300.0	25414
890-2290-25	SW-36	Soluble	Solid	300.0	25414
890-2290-26	SW-37	Soluble	Solid	300.0	25414
MB 880-25414/1-A	Method Blank	Soluble	Solid	300.0	25414
LCS 880-25414/2-A	Lab Control Sample	Soluble	Solid	300.0	25414
LCSD 880-25414/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	25414
880-14738-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	25414
880-14738-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	25414

Job ID: 890-2290-2 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-34 Lab Sample ID: 890-2290-23

Date Collected: 05/06/22 00:00 **Matrix: Solid** Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	25564	05/14/22 12:37	MR	XEN MID
Total/NA	Analysis	8021B		1			25561	05/15/22 01:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25659	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25344	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25199	05/09/22 16:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25231	05/10/22 20:10	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	25414	05/12/22 11:30	CH	XEN MID
Soluble	Analysis	300.0		5			25429	05/12/22 13:19	CH	XEN MID

Client Sample ID: SW-35 Lab Sample ID: 890-2290-24

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 25564 Total/NA 5.02 g 05/14/22 12:37 MR XEN MID 5 mL Total/NA 8021B 25561 05/15/22 02:02 XEN MID Analysis 1 MR Total/NA Total BTEX 25659 05/16/22 16:56 XEN MID Analysis 1 SM Total/NA Analysis 8015 NM 25344 05/11/22 10:27 SM XEN MID Total/NA 25199 XEN MID Prep 8015NM Prep 10.03 g 05/09/22 16:33 DM 10 mL Total/NA Analysis 8015B NM 25231 05/10/22 20:32 SM XEN MID Soluble XEN MID Leach DI Leach 5.04 g 50 mL 25414 05/12/22 11:30 CH Soluble Analysis 300.0 5 25429 05/12/22 13:46 CH XEN MID

Client Sample ID: SW-36 Lab Sample ID: 890-2290-25 Date Collected: 05/06/22 00:00

Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	25564	05/14/22 12:37	MR	XEN MID
Total/NA	Analysis	8021B		50			25561	05/15/22 03:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25659	05/16/22 16:56	SM	XEN MID
Total/NA	Analysis	8015 NM		1			25344	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	25199	05/09/22 16:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25231	05/10/22 19:48	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	25414	05/12/22 11:30	CH	XEN MID
Soluble	Analysis	300.0		5			25429	05/12/22 13:55	CH	XEN MID

Client Sample ID: SW-37 Lab Sample ID: 890-2290-26

Date Collected: 05/06/22 00:00 **Matrix: Solid** Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	25564	05/14/22 12:37	MR	XEN MID
Total/NA	Analysis	8021B		25			25561	05/15/22 04:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25659	05/16/22 16:56	SM	XEN MID

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Matrix: Solid

Matrix: Solid

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 890-2290-2 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-37 Lab Sample ID: 890-2290-26

Date Collected: 05/06/22 00:00 Matrix: Solid Date Received: 05/06/22 15:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			25344	05/11/22 10:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25199	05/09/22 16:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25231	05/10/22 20:53	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	25414	05/12/22 11:30	CH	XEN MID
Soluble	Analysis	300.0		5			25429	05/12/22 14:05	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Job ID: 890-2290-2

Project/Site: Kaiser SWD

SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-21-22	06-30-22
The following analytes	and the street and the state of the state of		and have the annual control of the Third Had an	
the agency does not of	• •	it the laboratory is not certifi	ied by the governing authority. This list ma	ay include analytes for
,	• •	It the laboratory is not certifi Matrix	led by the governing authority. This list ma	ay include analytes for
the agency does not of	fer certification.	•	, , ,	ay include analytes for

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Method Summary

Client: Tetra Tech, Inc.

Job ID: 890-2290-2

Project/Site: Kaiser SWD

SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-2290-2

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2290-23	SW-34	Solid	05/06/22 00:00	05/06/22 15:23	0 - 5
890-2290-24	SW-35	Solid	05/06/22 00:00	05/06/22 15:23	0 - 5
890-2290-25	SW-36	Solid	05/06/22 00:00	05/06/22 15:23	0 - 5
890-2290-26	SW-37	Solid	05/06/22 00:00	05/06/22 15:23	0 - 5

Received by OCD: 8/28/2023 2:02:22 PM

Analysis Reques	t of Chain of Custody Record				_											_	_			_		age	_	_			
Tŧ	Tetra Tech, Inc.				Midi	land,Te	reet, St xas 797 882-455 682-394	05 9																			
Client Name:	Permian Water Solutions	Site Manager:		Clair	Go	nzal	es																				
Project Name:	Kaiser SWD	<u> </u>										۱,	89	90-2	290	Chai	in o	f Cus	stod	У					1	1	
Project Location: (county, state)	Lea County, New Mexico	Project #:		21	2C	-MC	-022	30							-									st)			
Invoice to:	Dusty McInturff - Permian Water Solutions	•											MRO)		위원									ached li			
Receiving Laboratory:	Eurofins Xenco	Sampler Signat	lure:	Ez	eq	uiel	More	eno					RO-		Pb Se	П	. 1			11		'		e afte	\mathbb{H}		
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LAB#	SAMPLE IDENTIFICATION	YEAR: 2020				T				AINE	(Y)	321B) WS	202	tals A	latiles	mi Vo	9 9	emi	082 /	pesto	200	Š	Wate			
(LAB USE ONLY	SAME ELISEATINION	DATE	TIME	WATER		된	HNO3	None		# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 82	Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Vo	TCLP Se	RCI GC/MS \	GC/MS Semi. Vol. 8270C/625	PCB's 8	NORM PLM (As	Chloride	Chloride	General Water Chemistry (see attached list) Anion/Cation Balance			Hold
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Analysis Reques	t of Chain of Custody Record								_						P	age			<u>2</u> of		3
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Client Name:	Permian Water Solutions	Site Manager:	Clair Go	nzales				,	Cir/			LYSI Spe					Vo.				
Project Name:	Kaiser SWD						\mathbf{l}_{\perp}	,)) I		, 			
Project Location: (county, state)	Lea County, New Mexico	Project #:	212C	-MD-02230]										(ts)				
Invoice to:	Dusty McInturff - Permian Water Solutions							(RO)	위	윤							ched				1
Receiving Laboratory:	Eurofins Xenco	Sampler Signature:	Ezeq	uiel Moreno				ORO - N	Cr Pb Se Hg	- Pb Se			5				see atta				
Comments:							X 8260E	DR0 - 0				624	8270C/625			П	TDS iistry (s				
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LAB#	SAMPLE IDENTIFICATION	YEAR: 2020	ır.			# CONTAINERS FILTERED (Y/N)	BTEX 8021B BTE. TPH TX1005 (Ext to	TPH 8015M (GRO - DRO - ORO - MRO)	Total Metals Ag As Ba Co	TCLP Metals A	TCLP Semi Volatiles	10/10	GC/MS Semi.	PCB's 8082 / 608	Asbestos	Chloride	ide Su	Anion/Cation Balance			
(LAB USE)		DATE	WATER	HCL HNO ₃	S S S S S S S S S S S S S S S S S S S	# CON	BTEX TPH	TPH 8	Total	10P	TCLP	IS C	GC/M	PCB's	NORM PLM (8	Chlori	Chlor	Anion	\perp		PP
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Analysis Reque	st of Chain of Custody Record																				F	Page	•		3	of	3
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Client Name:	Permian Water Solutions	Site Manager:		Clai	ir G	ionza	les							(C	irc						UES leth		No	1)			
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Invoice to:	Dusty McInturff - Permian Water Solutions												MRO)		위	DÎ L								ached			
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		SAMP	LING	MA	TRI	х		SERVA METHO		RS S	(Z)	BTEX	(Ext to C35) GRO - DRO	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	S	Volatiles		Vol. 82	808		(2)	ulfate	General Water Chemistry (see attached list)	Dalance		
LAB#	SAMPLE IDENTIFICATION	YEAR: 2020		~			Т			PAINE	ED (Y	8021B	(1005)	270C	etals A	olatile	emi V		Semi.	8082 /	ľ	sbesto	S	Wate	anon		
(LAB USE)		DATE	TIME	WATER	SOIL	H E	NO.	CE	None	# CONTAINERS	FILTERED (Y/N)	BTEX 8	TPH 1X1005 TPH 8015M (PAH 8	Total M	TCLP Volatiles	TCLP Semi	RCI	GC/MS Semi. Vol.	PCB's 8082 / 508	NORM	PLM (Asbestos) Chloride	Chlorid	General Aping"	Aniony		Hold
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Login Sample Receipt Checklist

Client: Tetra Tech, Inc. Job Number: 890-2290-2

SDG Number: Lea County NM

Login Number: 2290 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

<6mm (1/4").

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2290-2 SDG Number: Lea County NM

List Source: Eurofins Midland

List Creation: 05/09/22 12:39 PM

Login Number: 2290 List Number: 2 Creator: Teel, Brianna

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

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<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2515-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Kaiser SWD

For:

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Clair Gonzales

RAMER

Authorized for release by: 7/20/2022 7:58:20 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-2515-1 SDG: Lea County NM

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Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Qualifiers

GC VOA
Qualifier

F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Qualifier Description

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC Qualifier

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

RL

RPD TEF

TEQ

TNTC

C.000 a.,	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Reporting Limit or Requested Limit (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Job ID: 890-2515-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2515-1

Receipt

The samples were received on 7/8/2022 4:08 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-121 8 (890-2515-14), BH-122 8 (890-2515-15), BH-123 8 (890-2515-16), BH-124 8 (890-2515-17), BH-125 8 (890-2515-18), BH-126 8 (890-2515-19), BH-127 8 (890-2515-20), BH-128 8 (890-2515-21), BH-130 8 (890-2515-23), BH-131 8 (890-2515-24), BH-132 8 (890-2515-25), BH-133 8 (890-2515-26), BH-134 8 (890-2515-27), BH-136 8 (890-2515-29), BH-137 8 (890-2515-30), BH-138 8 (890-2515-31), BH-139 8 (890-2515-32), (CCV 880-29700/33) and (CCV 880-29700/51). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW35 0-6 (890-2515-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-114 10 (890-2515-7), BH-115 10 (890-2515-8), BH-116 10 (890-2515-9) and BH-117 10 (890-2515-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The following sample was diluted due to the nature of the sample matrix: BH-118 10 (890-2515-11). Elevated reporting limits (RLs) are provided.

Method 8021B: Surrogate recovery for the following sample was outside control limits: BH-118 10 (890-2515-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-29987 and analytical batch 880-30016 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: BH-117 10 (890-2515-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-29557 and analytical batch 880-29499 was outside control limits. Sample non-homogeneity is suspected.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-29563 and analytical batch 880-29603 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: BH-131 8 (890-2515-24). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Case Narrative

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Job ID: 890-2515-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

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114

Lab Sample ID: 890-2515-1

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW34 0-6

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 0 - 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/14/22 09:52	07/15/22 12:56	
Toluene	<0.00199	U	0.00199		mg/Kg		07/14/22 09:52	07/15/22 12:56	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		07/14/22 09:52	07/15/22 12:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/22 09:52	07/15/22 12:56	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		07/14/22 09:52	07/15/22 12:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/22 09:52	07/15/22 12:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				07/14/22 09:52	07/15/22 12:56	1
1,4-Difluorobenzene (Surr)	104		70 - 130				07/14/22 09:52	07/15/22 12:56	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/15/22 08:13	1
Method: 8015 NM - Diesel Range			DI.	MDI	l lmiá		Duamanad	Amahasad	Dil Fa
Analyte	Result	Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed	
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 07/13/22 09:51	
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <49.9 ge Organics (Di	Qualifier U RO) (GC)	49.9		mg/Kg			07/13/22 09:51	1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Result <49.9 ge Organics (Dige Result	Qualifier U RO) (GC) Qualifier	49.9		mg/Kg	<u>D</u>	Prepared	07/13/22 09:51 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <49.9 ge Organics (Di	Qualifier U RO) (GC)	49.9		mg/Kg			07/13/22 09:51	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 ge Organics (Dige Result	Qualifier U RO) (GC) Qualifier U F2	49.9		mg/Kg		Prepared	07/13/22 09:51 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (D) Result <49.9 49.9	Qualifier U RO) (GC) Qualifier U F2	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 07/12/22 14:24	07/13/22 09:51 Analyzed 07/12/22 20:46	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U RO) (GC) Qualifier U F2 U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/12/22 14:24 07/12/22 14:24	07/13/22 09:51 Analyzed 07/12/22 20:46 07/12/22 20:46	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U RO) (GC) Qualifier U F2 U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/12/22 14:24 07/12/22 14:24	07/13/22 09:51 Analyzed 07/12/22 20:46 07/12/22 20:46	Dil Face
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9	Qualifier U RO) (GC) Qualifier U F2 U	49.9 RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/12/22 14:24 07/12/22 14:24 07/12/22 14:24 Prepared	07/13/22 09:51 Analyzed 07/12/22 20:46 07/12/22 20:46 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U RO) (GC) Qualifier U F2 U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/12/22 14:24 07/12/22 14:24 07/12/22 14:24 Prepared 07/12/22 14:24	07/13/22 09:51 Analyzed 07/12/22 20:46 07/12/22 20:46 Analyzed 07/12/22 20:46	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.9	Qualifier U RO) (GC) Qualifier U F2 U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg		Prepared 07/12/22 14:24 07/12/22 14:24 07/12/22 14:24 Prepared 07/12/22 14:24	07/13/22 09:51 Analyzed 07/12/22 20:46 07/12/22 20:46 Analyzed 07/12/22 20:46	Dil Fac

Client Sample ID: SW35 0-6

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 0 - 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:52	07/15/22 13:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:52	07/15/22 13:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:52	07/15/22 13:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/22 09:52	07/15/22 13:17	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:52	07/15/22 13:17	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/14/22 09:52	07/15/22 13:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	160	S1+	70 - 130				07/14/22 09:52	07/15/22 13:17	1

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Lab Sample ID: 890-2515-2

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Matrix: Solid

Client Sample ID: SW35 0-6

Date Collected: 07/06/22 00:00

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2515-1 SDG: Lea County NM

Lab Sample ID: 890-2515-2

Matrix: Solid

Date Received: 07/08/22 16:08 Sample Depth: 0 - 6

Surrogate	%Recovery G	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	96		70 - 130	07/14/22 09:52	07/15/22 13:17	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402 U	0.00402	mg/Kg			07/15/22 08:13	1

Method: 8015 NM - Diesel Range Organics (DRO) (G	C
Method: 0013 NM - Dieser Range Organics (DIXO) (C	, ,

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg]		07/13/22 09:51	1

Method: 8015B	NM Discol	Dange Ore	aaniee (DD()) (CC)
MICHIOU. OU IOD	INIVI - DIESEI	Rallue Oli	ualiics lunc	JI (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/12/22 21:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/12/22 21:50	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/12/22 21:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	76Necovery	Quanner	Lilling	r	-repareu	Allalyzeu	DII Fac
1-Chlorooctane	92		70 - 130	07/1	12/22 14:24	07/12/22 21:50	1
o-Terphenyl	106		70 - 130	07/1	12/22 14:24	07/12/22 21:50	1
_							

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	244	4.98	mg/Kg			07/14/22 04:18	1

Client Sample ID: SW36 0-6 Lab Sample ID: 890-2515-3 Matrix: Solid

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 0 - 6

Mothod: 9021D	Volatile Organie	Compounds (GC)
I WIELIIOU. OUZ ID '	- voiatile Organic	Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:52	07/15/22 17:36	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:52	07/15/22 17:36	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:52	07/15/22 17:36	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/14/22 09:52	07/15/22 17:36	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:52	07/15/22 17:36	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/14/22 09:52	07/15/22 17:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				07/14/22 09:52	07/15/22 17:36	1
1,4-Difluorobenzene (Surr)	107		70 - 130				07/14/22 09:52	07/15/22 17:36	1

Mothod:	Total RT	Y - Total I	RTEY Ca	lculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00403	U	0.00403		ma/Ka			07/15/22 08:13	1

Analyte	•	•	Result	Qualifier	RL	MDL Uni	t D	Prepare		Dil Fac
Total TPH			<49.9	U	49.9	mg/	Kg		07/13/22 09:51	1

Matrix: Solid

Lab Sample ID: 890-2515-3

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW36 0-6

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 0 - 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		07/12/22 14:24	07/12/22 22:11	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		07/12/22 14:24	07/12/22 22:11	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/12/22 14:24	07/12/22 22:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				07/12/22 14:24	07/12/22 22:11	1
o-Terphenyl	102		70 - 130				07/12/22 14:24	07/12/22 22:11	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Pocult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

5.05 Chloride 56.8 mg/Kg 07/14/22 04:27 Client Sample ID: SW37 0-6 Lab Sample ID: 890-2515-4

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 0 - 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/14/22 09:52	07/15/22 16:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/14/22 09:52	07/15/22 16:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/14/22 09:52	07/15/22 16:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/22 09:52	07/15/22 16:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/14/22 09:52	07/15/22 16:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/22 09:52	07/15/22 16:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				07/14/22 09:52	07/15/22 16:25	1
1,4-Difluorobenzene (Surr)	107		70 - 130				07/14/22 09:52	07/15/22 16:25	1
Method: Total BTEX - Total BTE)	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/15/22 08:13	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/13/22 09:51	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/12/22 14:24	07/12/22 22:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/12/22 14:24	07/12/22 22:33	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/12/22 14:24	07/12/22 22:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				07/12/22 14:24	07/12/22 22:33	1

Lab Sample ID: 890-2515-4

Client: Tetra Tech, Inc.

Job ID: 890-2515-1
Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW37 0-6

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 0 - 6

Method: 300.0 - Anions, Ion Chroi	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.7		4.99		mg/Kg			07/14/22 04:37	1

Client Sample ID: BH-106 6

Date Collected: 07/06/22 00:00

Matrix: Solid

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:52	07/15/22 18:18	
Toluene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:52	07/15/22 18:18	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:52	07/15/22 18:18	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/14/22 09:52	07/15/22 18:18	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:52	07/15/22 18:18	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/14/22 09:52	07/15/22 18:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				07/14/22 09:52	07/15/22 18:18	1
1,4-Difluorobenzene (Surr)	113		70 - 130				07/14/22 09:52	07/15/22 18:18	1
· Method: Total BTEX - Total BTE)	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			07/15/22 08:13	1
Method: 8015 NM - Diesel Range Analyte Total TPH	•	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total IPH	<50.0	U	50.0		mg/Kg			07/13/22 09:51	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/12/22 22:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/12/22 22:54	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/12/22 22:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				07/12/22 14:24	07/12/22 22:54	1
o-Terphenyl	125		70 - 130				07/12/22 14:24	07/12/22 22:54	1
Method: 300.0 - Anions, Ion Chro	•								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.0		4.95		mg/Kg			07/14/22 04:46	1

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Released to Imaging: 9/1/2023 2:55:43 PM

Lab Sample ID: 890-2515-6

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-108 6

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:52	07/15/22 18:38	
Toluene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:52	07/15/22 18:38	
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:52	07/15/22 18:38	
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/14/22 09:52	07/15/22 18:38	
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:52	07/15/22 18:38	
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/14/22 09:52	07/15/22 18:38	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	110		70 - 130				07/14/22 09:52	07/15/22 18:38	
1,4-Difluorobenzene (Surr)	107		70 - 130				07/14/22 09:52	07/15/22 18:38	
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00397	U	0.00397		mg/Kg			07/15/22 08:13	
Total TPH	<50.0	U	50.0		mg/Kg			07/13/22 09:51	
10tal 1PH - -	<50.0	U	50.0		mg/Kg			07/13/22 09:51	
Method: 8015B NM - Diesel Rang	•								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/12/22 23:16	
(GRO)-C6-C10	<50.0		50.0		mg/Kg		07/12/22 14:24	07/12/22 23:16	
		U	30.0		mg/rvg		07/12/22 14.24		
Diesel Range Organics (Over C10-C28)	100.0							01712722 20:10	
C10-C28) Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/12/22 23:16	
C10-C28) OII Range Organics (Over C28-C36)			50.0		mg/Kg		07/12/22 14:24 Prepared		Dil Fa
C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0				mg/Kg			07/12/22 23:16	Dil Fa
C10-C28)	<50.0		Limits		mg/Kg		Prepared	07/12/22 23:16 Analyzed	Dil Fa
C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 **Recovery 89 103	Qualifier	Limits 70 - 130		mg/Kg		Prepared 07/12/22 14:24	07/12/22 23:16 Analyzed 07/12/22 23:16	_ Dil Fa
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 **Recovery 89 103 pmatography -	Qualifier	Limits 70 - 130	MDL	mg/Kg Unit	<u>D</u>	Prepared 07/12/22 14:24	07/12/22 23:16 Analyzed 07/12/22 23:16	Dil Fa

Client Sample ID: BH-114 10

Date Collected: 07/06/22 00:00

Date Received: 07/08/22 16:08

Sample Depth: 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0202	U	0.0202		mg/Kg		07/14/22 09:52	07/15/22 19:20	10
Toluene	<0.0202	U	0.0202		mg/Kg		07/14/22 09:52	07/15/22 19:20	10
Ethylbenzene	<0.0202	U	0.0202		mg/Kg		07/14/22 09:52	07/15/22 19:20	10
m-Xylene & p-Xylene	<0.0404	U	0.0404		mg/Kg		07/14/22 09:52	07/15/22 19:20	10
o-Xylene	<0.0202	U	0.0202		mg/Kg		07/14/22 09:52	07/15/22 19:20	10
Xylenes, Total	<0.0404	U	0.0404		mg/Kg		07/14/22 09:52	07/15/22 19:20	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	174	S1+	70 - 130				07/14/22 09:52	07/15/22 19:20	10

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Lab Sample ID: 890-2515-7

Matrix: Solid

Lab Sample ID: 890-2515-7

Lab Sample ID: 890-2515-8

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-114 10

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 10

Method: 8021B - Volatile Organic Compound	s (GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	126	70 - 130	07/14/22 09:52	07/15/22 19:20	10

Method: Total E	BTEX - Total	BTEX C	alculation
Mictiliou. Total L	JIEA - IOLUI	DILA	aiculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0404	U	0.0404		mg/Kg			07/15/22 08:13	1

l .		
Mothod: 904E NM Dia	sel Range Organics (DRO) (GC)	١
INICITIOU. OUTS ININI - DIC	sei Kange Organics (DKO) (GC)	,

Analyte	Result	Qualifier	RL	MDL Un	t	D	Prepared	Analyzed	Dil Fac
Total TPH	99.5		50.0	mg	/Kg			07/13/22 09:51	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/13/22 04:16	1
Diesel Range Organics (Over C10-C28)	99.5		50.0		mg/Kg		07/12/22 14:24	07/13/22 04:16	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/13/22 04:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Pre	epared	Analyzed	DII Fac
1-Chlorooctane	95		70 - 130	07/12/	/22 14:24	07/13/22 04:16	1
o-Terphenyl	105		70 - 130	07/12/	/22 14:24	07/13/22 04:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte		alifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	266	5.00	mg/Kg			07/14/22 08:09	1

Client Sample ID: BH-115 10

Date Collected: 07/06/22 00:00

Date Received: 07/08/22 16:08

Sample Depth: 10

Method: 8021B - Volatile Organic Co	mnolinas ((=(.)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0439		0.0201		mg/Kg		07/14/22 09:52	07/15/22 19:40	10
Toluene	<0.0201	U	0.0201		mg/Kg		07/14/22 09:52	07/15/22 19:40	10
Ethylbenzene	<0.0201	U	0.0201		mg/Kg		07/14/22 09:52	07/15/22 19:40	10
m-Xylene & p-Xylene	<0.0402	U	0.0402		mg/Kg		07/14/22 09:52	07/15/22 19:40	10
o-Xylene	<0.0201	U	0.0201		mg/Kg		07/14/22 09:52	07/15/22 19:40	10
Xylenes, Total	<0.0402	U	0.0402		mg/Kg		07/14/22 09:52	07/15/22 19:40	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	205	S1+	70 - 130				07/14/22 09:52	07/15/22 19:40	10
1,4-Difluorobenzene (Surr)	128		70 - 130				07/14/22 09:52	07/15/22 19:40	10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0439		0.0402		mg/Kg			07/15/22 08:13	1

Method: 8015 NM - Diesel	Range Organics	(DRO)	(GC)	١
Mictilioa. 00 10 Min - Diesei	Range Organics	(Divo)	(\mathbf{c})	ı.

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	86.1	49.9	mg/Kg			07/13/22 09:51	1

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Lab Sample ID: 890-2515-8

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-115 10

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/12/22 14:24	07/13/22 04:38	1
Diesel Range Organics (Over C10-C28)	86.1		49.9		mg/Kg		07/12/22 14:24	07/13/22 04:38	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/12/22 14:24	07/13/22 04:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				07/12/22 14:24	07/13/22 04:38	1
o-Terphenyl	96		70 - 130				07/12/22 14:24	07/13/22 04:38	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH-116 10 Lab Sample ID: 890-2515-9 Date Collected: 07/06/22 00:00 Matrix: Solid

Date Received: 07/08/22 16:08

Sample Depth: 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0597		0.0202		mg/Kg		07/14/22 09:52	07/15/22 20:01	10
Toluene	<0.0202	U	0.0202		mg/Kg		07/14/22 09:52	07/15/22 20:01	10
Ethylbenzene	<0.0202	U	0.0202		mg/Kg		07/14/22 09:52	07/15/22 20:01	10
m-Xylene & p-Xylene	<0.0403	U	0.0403		mg/Kg		07/14/22 09:52	07/15/22 20:01	10
o-Xylene	<0.0202	U	0.0202		mg/Kg		07/14/22 09:52	07/15/22 20:01	10
Xylenes, Total	<0.0403	U	0.0403		mg/Kg		07/14/22 09:52	07/15/22 20:01	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	180	S1+	70 - 130				07/14/22 09:52	07/15/22 20:01	10
1,4-Difluorobenzene (Surr)	126		70 - 130				07/14/22 09:52	07/15/22 20:01	10
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0597		0.0403		mg/Kg			07/15/22 08:13	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	196		49.9		mg/Kg			07/13/22 09:51	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/12/22 14:24	07/13/22 03:54	1
Diesel Range Organics (Over C10-C28)	196		49.9		mg/Kg		07/12/22 14:24	07/13/22 03:54	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/12/22 14:24	07/13/22 03:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				07/12/22 14:24	07/13/22 03:54	1
o-Terphenyl	125		70 - 130				07/12/22 14:24	07/13/22 03:54	1

Lab Sample ID: 890-2515-9

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-116 10

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 10

Method: 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Dil Fac Analyte RL MDL Unit D Prepared Analyzed 4.98 07/14/22 08:28 Chloride 76.8 mg/Kg

Client Sample ID: BH-117 10 Lab Sample ID: 890-2515-10 **Matrix: Solid**

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0553		0.0199		mg/Kg		07/14/22 09:52	07/15/22 20:22	10
Toluene	<0.0199	U	0.0199		mg/Kg		07/14/22 09:52	07/15/22 20:22	10
Ethylbenzene	< 0.0199	U	0.0199		mg/Kg		07/14/22 09:52	07/15/22 20:22	10
m-Xylene & p-Xylene	<0.0398	U	0.0398		mg/Kg		07/14/22 09:52	07/15/22 20:22	10
o-Xylene	<0.0199	U	0.0199		mg/Kg		07/14/22 09:52	07/15/22 20:22	10
Xylenes, Total	<0.0398	U	0.0398		mg/Kg		07/14/22 09:52	07/15/22 20:22	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	186	S1+	70 - 130				07/14/22 09:52	07/15/22 20:22	10
1,4-Difluorobenzene (Surr)	127		70 - 130				07/14/22 09:52	07/15/22 20:22	10
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0553		0.0398		mg/Kg			07/15/22 08:13	1
Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	743		50.0		mg/Kg			07/13/22 09:51	1
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/13/22 02:50	1
Diesel Range Organics (Over C10-C28)	644		50.0		mg/Kg		07/12/22 14:24	07/13/22 02:50	1
Oll Range Organics (Over C28-C36)	98.9		50.0		mg/Kg		07/12/22 14:24	07/13/22 02:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				07/12/22 14:24	07/13/22 02:50	1
o-Terphenyl	133	S1+	70 - 130				07/12/22 14:24	07/13/22 02:50	1
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble							
Method: 300.0 - Anions, Ion Chr Analyte		Soluble Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-118 10

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08 Sample Depth: 10 REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-2515-11

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.101	U	0.101		mg/Kg		07/18/22 15:14	07/19/22 16:21	50
Toluene	<0.101	U	0.101		mg/Kg		07/18/22 15:14	07/19/22 16:21	50
Ethylbenzene	<0.101	U	0.101		mg/Kg		07/18/22 15:14	07/19/22 16:21	50
m-Xylene & p-Xylene	<0.202	U	0.202		mg/Kg		07/18/22 15:14	07/19/22 16:21	50
o-Xylene	<0.101	U	0.101		mg/Kg		07/18/22 15:14	07/19/22 16:21	50
Xylenes, Total	<0.202	U	0.202		mg/Kg		07/18/22 15:14	07/19/22 16:21	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	07/18/22 15:14	07/19/22 16:21	50
1,4-Difluorobenzene (Surr)	62	S1-	70 - 130	07/18/22 15:14	07/19/22 16:21	50

Method: Total BTEX - Total BTEX Calcul	ation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.202	U	0.202		mg/Kg			07/15/22 08:13	1

Method: 8015 NM - Diesel Range Or	rganics (DRC)) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	4480		249		mg/Kg			07/13/22 09:51	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<249	U	249		mg/Kg		07/12/22 14:24	07/13/22 03:12	5
Diesel Range Organics (Over C10-C28)	3970		249		mg/Kg		07/12/22 14:24	07/13/22 03:12	5
Oll Range Organics (Over C28-C36)	507		249		mg/Kg		07/12/22 14:24	07/13/22 03:12	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				07/12/22 14:24	07/13/22 03:12	5

Method: 300.0 - Anions, Ion Chron	natography - Soluble							
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	187	4.95	ma/Ka			07/14/22 08:46	1	

70 - 130

Client Sample ID: BH-119 8

o-Terphenyl

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08 Sample Depth: 8 REMOVED FROM ANALYSIS TABLE

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Lab Sample ID: 890-2515-12

Matrix: Solid

Mothod: 9021B Volatile Organic Compounds (GC

Method: 8021B - Volatile Organic Co	mpounds	(GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:52	07/15/22 18:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:52	07/15/22 18:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:52	07/15/22 18:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/22 09:52	07/15/22 18:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:52	07/15/22 18:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/22 09:52	07/15/22 18:59	1

Job ID: 890-2515-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-119 8

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-2515-12

Matrix: Solid

Sample Depth: 8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	07/14/22 09:52	07/15/22 18:59	1
1,4-Difluorobenzene (Surr)	110		70 - 130	07/14/22 09:52	07/15/22 18:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			07/15/22 08:13	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC) Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac **Total TPH** 5070 250 mg/Kg 07/13/22 09:51

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Dil Fac Result Qualifier MDL Unit D Analyte RLPrepared Analyzed <250 U 250 07/12/22 14:24 07/13/22 03:33 Gasoline Range Organics mg/Kg (GRO)-C6-C10 **Diesel Range Organics (Over** 4490 250 mg/Kg 07/12/22 14:24 07/13/22 03:33 5 C10-C28) 07/12/22 14:24 07/13/22 03:33 **Oll Range Organics (Over 578** 250 mg/Kg C28-C36)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	07/12/22 14:24	07/13/22 03:33	5
o-Terphenyl	100		70 - 130	07/12/22 14:24	07/13/22 03:33	5

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier Dil Fac RL MDL Unit Prepared Analyzed Chloride 25.1 07/14/22 09:14 3960 mg/Kg

Client Sample ID: BH-120 8 Date Collected: 07/06/22 00:00

Date Received: 07/08/22 16:08

Sample Depth: 8

Analyte

Total BTEX

REMOVED FROM ANALYSIS TABLE

Result Qualifier

<0.00402 U

Lab Sample ID: 890-2515-13

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U F1 F2	0.00201		mg/Kg		07/14/22 09:57	07/15/22 01:35	1
Toluene	<0.00201	U F1 F2	0.00201		mg/Kg		07/14/22 09:57	07/15/22 01:35	1
Ethylbenzene	<0.00201	U F1 F2	0.00201		mg/Kg		07/14/22 09:57	07/15/22 01:35	1
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.00402		mg/Kg		07/14/22 09:57	07/15/22 01:35	1
o-Xylene	<0.00201	U F1 F2	0.00201		mg/Kg		07/14/22 09:57	07/15/22 01:35	1
Xylenes, Total	<0.00402	U F1 F2	0.00402		mg/Kg		07/14/22 09:57	07/15/22 01:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				07/14/22 09:57	07/15/22 01:35	1
1,4-Difluorobenzene (Surr)	95		70 - 130				07/14/22 09:57	07/15/22 01:35	1

RL

0.00402

MDL Unit

mg/Kg

D

Prepared

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Analyzed

07/15/22 08:13

Dil Fac

Job ID: 890-2515-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-120 8

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

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<49.9 U

Lab Sample ID: 890-2515-13

07/12/22 23:37

07/12/22 14:24

07/12/22 14:24

Matrix: Solid

Sample Depth: 8

Method: 8015 NM - Diesel Range C	organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			07/13/22 09:51	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit Analyzed Dil Fac Prepared <49.8 U 49.8 07/12/22 14:24 07/12/22 23:37 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U 49.8 07/12/22 14:24 07/12/22 23:37 mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <49.8 U 49.8 mg/Kg 07/12/22 14:24 07/12/22 23:37 %Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed

o-Terphenyl 102 70 - 130 07/12/22 14:24 07/12/22 23:37 Method: 300.0 - Anions, Ion Chromatography - Soluble

70 - 130

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 25.2 Chloride 1150 mg/Kg 07/14/22 09:23

Client Sample ID: BH-121 8 Lab Sample ID: 890-2515-14 Date Collected: 07/06/22 00:00 **Matrix: Solid**

Date Received: 07/08/22 16:08

OII Range Organics (Over C28-C36)

Released to Imaging: 9/1/2023 2:55:43 PM

Sample Depth: 8

1-Chlorooctane

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:57	07/15/22 02:01	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:57	07/15/22 02:01	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:57	07/15/22 02:01	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/22 09:57	07/15/22 02:01	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:57	07/15/22 02:01	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/14/22 09:57	07/15/22 02:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130				07/14/22 09:57	07/15/22 02:01	1
1,4-Difluorobenzene (Surr)	80		70 - 130				07/14/22 09:57	07/15/22 02:01	1
Method: Total BTEX - Total BT	EX Calculation								
Method: Total BTEX - Total BT Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 07/15/22 08:13	Dil Fac
Analyte Total BTEX	Result <0.00402	U		MDL		<u>D</u>	Prepared		
Analyte	Result <0.00402	U				<u>D</u>	Prepared Prepared		
Analyte Total BTEX Method: 8015 NM - Diesel Ran	Result <0.00402	O) (GC) Qualifier	0.00402		mg/Kg			07/15/22 08:13	1
Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte	Result <0.00402 age Organics (DR Result <49.9	O) (GC) Qualifier	0.00402		mg/Kg			07/15/22 08:13 Analyzed	1
Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH	rige Organics (DR) Result <49.9 ange Organics (DI)	O) (GC) Qualifier	0.00402	MDL	mg/Kg			07/15/22 08:13 Analyzed	1
Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ran	rige Organics (DR) Result <49.9 ange Organics (DI)	O) (GC) Qualifier U RO) (GC) Qualifier	0.00402 RL 49.9	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	07/15/22 08:13 Analyzed 07/13/22 09:51	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte	rige Organics (DR Result <49.9 ange Organics (Di Result Result Result Result Result Result Result Result Result Result Result Result	O) (GC) Qualifier U RO) (GC) Qualifier	0.00402 RL 49.9	MDL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	07/15/22 08:13 Analyzed 07/13/22 09:51 Analyzed	Dil Fac Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics	rige Organics (DR Result <49.9 ange Organics (Di Result Result Result Result Result Result Result Result Result Result Result Result	O) (GC) Qualifier U RO) (GC) Qualifier U	0.00402 RL 49.9	MDL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	07/15/22 08:13 Analyzed 07/13/22 09:51 Analyzed	Dil Fac Dil Fac

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07/12/22 23:59

49.9

mg/Kg

Matrix: Solid

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2515-1 SDG: Lea County NM

Lab Sample ID: 890-2515-14

Lab Sample ID: 890-2515-15

Client Sample ID: BH-121 8

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	07/12/22 14:24	07/12/22 23:59	1
o-Terphenyl	118		70 - 130	07/12/22 14:24	07/12/22 23:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 101 Chloride 5280 mg/Kg 07/14/22 18:25

Client Sample ID: BH-122 8

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:57	07/15/22 02:27	
Toluene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:57	07/15/22 02:27	
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:57	07/15/22 02:27	
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/14/22 09:57	07/15/22 02:27	
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:57	07/15/22 02:27	
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/14/22 09:57	07/15/22 02:27	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130				07/14/22 09:57	07/15/22 02:27	
1,4-Difluorobenzene (Surr)	76		70 - 130				07/14/22 09:57	07/15/22 02:27	
- Method: Total BTEX - Total BTE)	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00404	U	0.00404		mg/Kg			07/15/22 08:13	
- Method: 8015 NM - Diesel Range	Organice (DD	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0		mg/Kg			07/13/22 09:51	
- Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/13/22 00:20	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/13/22 00:20	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/13/22 00:20	
							Prepared	Analyzed	Dil Fa
Surrogate	%Recovery	Qualifier	Limits						DII Fa
Surrogate 1-Chlorooctane		Qualifier	70 - 130				07/12/22 14:24	07/13/22 00:20	
<u>-</u>		Qualifier					07/12/22 14:24 07/12/22 14:24	07/13/22 00:20 07/13/22 00:20	
1-Chlorooctane	108 119		70 - 130				*****		
1-Chlorooctane o-Terphenyl	108 119 omatography -		70 - 130	MDL	Unit	D	*****		Dil Fa

Lab Sample ID: 890-2515-16

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-123 8

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/14/22 09:57	07/15/22 02:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/14/22 09:57	07/15/22 02:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/14/22 09:57	07/15/22 02:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/22 09:57	07/15/22 02:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/14/22 09:57	07/15/22 02:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/22 09:57	07/15/22 02:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130				07/14/22 09:57	07/15/22 02:54	1
1,4-Difluorobenzene (Surr)	80		70 - 130				07/14/22 09:57	07/15/22 02:54	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/15/22 08:13	1
Method: 8015 NM - Diesel Range			DI	MDI	Unit	D	Bronarod	Analyzod	Dil Ea
Analyte	Result	Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed	
Analyte Total TPH	Result <49.9	Qualifier U	RL	MDL	Unit mg/Kg	D	Prepared	Analyzed 07/13/22 09:51	
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <49.9 ge Organics (Di	Qualifier U RO) (GC)	49.9		mg/Kg			07/13/22 09:51	1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Result <49.9 ge Organics (Dige Result	Qualifier U RO) (GC) Qualifier	49.9		mg/Kg	<u>D</u>	Prepared	07/13/22 09:51 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <49.9 ge Organics (Di	Qualifier U RO) (GC) Qualifier	49.9		mg/Kg			07/13/22 09:51	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (D) Result <49.9 49.9	Qualifier U RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 07/12/22 14:24	07/13/22 09:51 Analyzed 07/13/22 00:41	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <49.9 ge Organics (Dige Result	Qualifier U RO) (GC) Qualifier U	49.9		mg/Kg		Prepared	07/13/22 09:51 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D) Result <49.9 49.9	Qualifier U RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 07/12/22 14:24	07/13/22 09:51 Analyzed 07/13/22 00:41	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/12/22 14:24 07/12/22 14:24	07/13/22 09:51 Analyzed 07/13/22 00:41 07/13/22 00:41	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/12/22 14:24 07/12/22 14:24 07/12/22 14:24	07/13/22 09:51 Analyzed 07/13/22 00:41 07/13/22 00:41 07/13/22 00:41	Dil Face
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/12/22 14:24 07/12/22 14:24 07/12/22 14:24 Prepared	07/13/22 09:51 Analyzed 07/13/22 00:41 07/13/22 00:41 07/13/22 00:41 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U RO) (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/12/22 14:24 07/12/22 14:24 07/12/22 14:24 Prepared 07/12/22 14:24	07/13/22 09:51 Analyzed 07/13/22 00:41 07/13/22 00:41 Analyzed 07/13/22 00:41	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.9	Qualifier U RO) (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 07/12/22 14:24 07/12/22 14:24 07/12/22 14:24 Prepared 07/12/22 14:24	07/13/22 09:51 Analyzed 07/13/22 00:41 07/13/22 00:41 Analyzed 07/13/22 00:41	Dil Fac

Client Sample ID: BH-124 8
Date Collected: 07/06/22 00:00

Date Received: 07/08/22 16:08

Sample Depth: 8

REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-2515-17

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:57	07/15/22 03:20	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:57	07/15/22 03:20	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:57	07/15/22 03:20	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/14/22 09:57	07/15/22 03:20	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:57	07/15/22 03:20	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/14/22 09:57	07/15/22 03:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130				07/14/22 09:57	07/15/22 03:20	1

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7/20/2022

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-124 8

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08 Sample Depth: 8

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-2515-17

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	74		70 - 130				07/14/22 09:57	07/15/22 03:20	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			07/15/22 08:13	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/13/22 09:51	1
- Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/13/22 01:24	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/13/22 01:24	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/13/22 01:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				07/12/22 14:24	07/13/22 01:24	1
o-Terphenyl	107		70 - 130				07/12/22 14:24	07/13/22 01:24	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	106	-	4.96		mg/Kg			07/14/22 18:52	1

Client Sample ID: BH-125 8 Lab Sample ID: 890-2515-18 **Matrix: Solid**

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 03:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 03:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 03:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/14/22 09:57	07/15/22 03:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 03:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/14/22 09:57	07/15/22 03:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130				07/14/22 09:57	07/15/22 03:46	1
1,4-Difluorobenzene (Surr)	74		70 - 130				07/14/22 09:57	07/15/22 03:46	1
- Method: Total BTEX - Total B1	ΓEX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/15/22 08:13	1
Method: 8015 NM - Diesel Rar	nge Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	<50.0		50.0		mg/Kg			07/13/22 09:51	

Lab Sample ID: 890-2515-18

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-125 8

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Method: 8015B NM - Diesel Rang	, ,	, , ,							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/13/22 01:46	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/13/22 01:46	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/13/22 01:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				07/12/22 14:24	07/13/22 01:46	1
o-Terphenyl	98		70 - 130				07/12/22 14:24	07/13/22 01:46	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3800		25.0		mg/Kg			07/14/22 19:02	5

Lab Sample ID: 890-2515-19 Client Sample ID: BH-126 8 Date Collected: 07/07/22 00:00 Matrix: Solid

Date Received: 07/08/22 16:08

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 04:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 04:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 04:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/22 09:57	07/15/22 04:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 04:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/22 09:57	07/15/22 04:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130				07/14/22 09:57	07/15/22 04:13	1
1,4-Difluorobenzene (Surr)	76		70 - 130				07/14/22 09:57	07/15/22 04:13	1
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			07/15/22 08:13	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/13/22 09:51	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/13/22 02:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/13/22 02:07	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/13/22 02:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				07/12/22 14:24	07/13/22 02:07	1
o-Terphenyl	115		70 ₋ 130				07/12/22 14:24	07/13/22 02:07	1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2515-1

SDG: Lea County NM

Client Sample ID: BH-126 8

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Lab Sample ID: 890-2515-19

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	4170		100		mg/Kg			07/14/22 19:11	20	

Client Sample ID: BH-127 8 Lab Sample ID: 890-2515-20 **Matrix: Solid**

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

(GRO)-C6-C10

Diesel Range Organics (Over

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:57	07/15/22 04:39	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:57	07/15/22 04:39	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:57	07/15/22 04:39	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/14/22 09:57	07/15/22 04:39	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:57	07/15/22 04:39	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/14/22 09:57	07/15/22 04:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130				07/14/22 09:57	07/15/22 04:39	1
1,4-Difluorobenzene (Surr)	77		70 - 130				07/14/22 09:57	07/15/22 04:39	1
- Method: Total BTEX - Total B1	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			07/15/22 08:13	1

Total BTEX	<0.00404	U	0.00404		mg/Kg			07/15/22 08:13	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/13/22 09:51	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		07/12/22 14:24	07/13/22 02:29	1

C10-C28) Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	07/12/22 14:24	07/13/22 02:29	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130		07/12/22 14:24	07/13/22 02:29	1
o-Ternhenyl	106		70 130		07/12/22 14:24	07/13/22 02:29	1

49.9

mg/Kg

07/12/22 14:24

07/13/22 02:29

<49.9 U

Method: 300.0 - Anions, Ion Chroma	tography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	472		25.0		mg/Kg			07/14/22 19:20	5

Lab Sample ID: 890-2515-21

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-128 8

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 05:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 05:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 05:05	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/14/22 09:57	07/15/22 05:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 05:05	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/14/22 09:57	07/15/22 05:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130				07/14/22 09:57	07/15/22 05:05	1
1,4-Difluorobenzene (Surr)	72		70 - 130				07/14/22 09:57	07/15/22 05:05	1
Method: Total BTEX - Total BTE	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			07/15/22 08:13	1
Total TPH	<49.9		49.9		mg/Kg			07/13/22 09:51	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	49.9		mg/Kg		07/12/22 15:30	07/13/22 11:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9		mg/Kg		07/12/22 15:30	07/13/22 11:31	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/12/22 15:30	07/13/22 11:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				07/12/22 15:30	07/13/22 11:31	1
o-Terphenyl	107		70 - 130				07/12/22 15:30	07/13/22 11:31	1
-									
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
		Soluble Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac

Client Sample ID: BH-129 8

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:57	07/15/22 05:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:57	07/15/22 05:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:57	07/15/22 05:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/22 09:57	07/15/22 05:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:57	07/15/22 05:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/14/22 09:57	07/15/22 05:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130				07/14/22 09:57	07/15/22 05:32	1

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Lab Sample ID: 890-2515-22

Matrix: Solid

Lab Sample ID: 890-2515-22

Lab Sample ID: 890-2515-23

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-129 8

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Method: 8021B - Volatile Organic Con	noounds (GC)	(Continued)
motifical collision of gains con	ipodiido (OO)	(Continuou,

Surrogate	%Recovery Quali	ifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	74	70 - 130	07/14/22 09:57	07/15/22 05:32	1

Method: Total	BTEX - Total	BTEX Calculati	on

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg	 		07/15/22 08:13	1

ı		
ı	Method: 8015 NM - Diesel Range Organics (DRO)	(CC)
ı	Method. 0013 NM - Diesel Kange Organics (DKO)	(00)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg]		07/13/22 09:51	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/12/22 15:30	07/13/22 12:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/12/22 15:30	07/13/22 12:36	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/22 15:30	07/13/22 12:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89	70 - 130	07/12/22 15:30	07/13/22 12:36	1
o-Terphenyl	103	70 - 130	07/12/22 15:30	07/13/22 12:36	1

Method: 300.0 - Anions,	on Chromatography	· - Soluble
	_	

Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
Chloride	926		4.95		mg/Kg				07/14/22 07:52	1

Client Sample ID: BH-130 8

Date Collected: 07/07/22 00:00

Date Received: 07/08/22 16:08

Sample Depth: 8

Mathadi 0004D	Valatile Overen	ic Compounds (GC)
Memoo: Auzib	- voianie Urdan	ic Compounds (GC)

Wethou. 002 ID - Volatile Orga	inic compounds ((00)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/14/22 09:57	07/15/22 07:18	1
Toluene	< 0.00199	U	0.00199		mg/Kg		07/14/22 09:57	07/15/22 07:18	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		07/14/22 09:57	07/15/22 07:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/22 09:57	07/15/22 07:18	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		07/14/22 09:57	07/15/22 07:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/22 09:57	07/15/22 07:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130				07/14/22 09:57	07/15/22 07:18	1
1,4-Difluorobenzene (Surr)	80		70 - 130				07/14/22 09:57	07/15/22 07:18	1

Method: Tota	I RTFX - '	Total BTFX	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00398	U	0.00398		ma/Ka			07/15/22 08:13	1

	Method: 8015 NM - Diesel	Range Organics (DRO) (GC)
ı	Michiga. 00 to Min - Diese	i italige Organics (Dito	, (00)

Analyte	•	•	Result	Qualifier	RL	MDL Uni	t D	Prepare		Dil Fac
Total TPH			<49.9	U	49.9	mg/	Kg		07/13/22 09:51	1

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Lab Sample ID: 890-2515-23

Lab Sample ID: 890-2515-24

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-130 8

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		07/12/22 15:30	07/13/22 12:58	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		07/12/22 15:30	07/13/22 12:58	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/12/22 15:30	07/13/22 12:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				07/12/22 15:30	07/13/22 12:58	1
o-Terphenyl -	113		70 - 130				07/12/22 15:30	07/13/22 12:58	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH-131 8

Date Collected: 07/07/22 00:00

Date Received: 07/08/22 16:08

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 07:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 07:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 07:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/22 09:57	07/15/22 07:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 07:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/22 09:57	07/15/22 07:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130				07/14/22 09:57	07/15/22 07:45	1
1,4-Difluorobenzene (Surr)	76		70 - 130				07/14/22 09:57	07/15/22 07:45	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			07/15/22 08:13	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	63.5		49.9		mg/Kg			07/13/22 09:51	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/12/22 15:30	07/13/22 13:20	1
Diesel Range Organics (Over C10-C28)	63.5		49.9		mg/Kg		07/12/22 15:30	07/13/22 13:20	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/12/22 15:30	07/13/22 13:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				07/12/22 15:30	07/13/22 13:20	1
o-Terphenyl	0.05	0.4	70 ₋ 130				07/12/22 15:30	07/13/22 13:20	1

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2515-1

SDG: Lea County NM

Client Sample ID: BH-131 8 Date Collected: 07/07/22 00:00

Lab Sample ID: 890-2515-24 Matrix: Solid

Sample Depth: 8

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed 5.00 07/14/22 08:07 Chloride 85.5 mg/Kg

Client Sample ID: BH-132 8

Method: Total BTEX - Total BTEX Calculation

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Date Received: 07/08/22 16:08

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-2515-25

Matrix: Solid

Sample Depth: 8

C10-C28)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:57	07/15/22 08:11	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:57	07/15/22 08:11	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:57	07/15/22 08:11	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/14/22 09:57	07/15/22 08:11	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:57	07/15/22 08:11	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/14/22 09:57	07/15/22 08:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		S1+	70 - 130				07/14/22 09:57	07/15/22 08:11	1
1,4-Difluorobenzene (Surr)	74		70 - 130				07/14/22 09:57	07/15/22 08:11	1

							DII Fac
T	Total BTEX	<0.00396 U	0.00396	mg/Kg		07/15/22 08:13	1
	Method: 8015 NM - Diesel Range O	rganics (DRO) (GC)					

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/13/22 09:51	1
Method: 8015B NM - Diesel Range	Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/12/22 15:30	07/13/22 13:41	1
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/12/22 15:30	07/13/22 13:41	1

Oll Range Organics (Over C28-C36)	<50.0 U	50.0	mg/Kg	07/12/22 15:30	07/13/22 13:41	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	88	70 - 130		07/12/22 15:30	07/13/22 13:41	1
o-Ternhenyl	102	70 130		07/12/22 15:30	07/13/22 13:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	172		4.96		mg/Kg			07/14/22 08:15	1

Lab Sample ID: 890-2515-26

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-133 8

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:57	07/15/22 08:49	
Toluene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:57	07/15/22 08:49	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:57	07/15/22 08:49	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/22 09:57	07/15/22 08:49	
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:57	07/15/22 08:49	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/14/22 09:57	07/15/22 08:49	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130				07/14/22 09:57	07/15/22 08:49	
1,4-Difluorobenzene (Surr)	81		70 - 130				07/14/22 09:57	07/15/22 08:49	
Method: Total BTEX - Total BTE)	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/15/22 08:13	
Analyte Total TPH	<50.0	Qualifier U		WIDE	mg/Kg	<u>D</u>	Prepared	Analyzed 07/13/22 09:51	Dil Fa
			50.0		mg/Kg			07/13/22 09.51	
Method: 8015B NM - Diesel Rang									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/12/22 15:30	07/13/22 14:03	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/12/22 15:30	07/13/22 14:03	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/22 15:30	07/13/22 14:03	
,	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
,		Qualifier	Limits 70 - 130				Prepared 07/12/22 15:30	Analyzed 07/13/22 14:03	Dil Fa
Surrogate		Qualifier							
Surrogate 1-Chlorooctane	86 101		70 - 130				07/12/22 15:30	07/13/22 14:03	
Surrogate 1-Chlorooctane o-Terphenyl	86 101 omatography -		70 - 130	MDL	Unit	<u>D</u>	07/12/22 15:30	07/13/22 14:03	Dil Fa

Client Sample ID: BH-134 8

Date Collected: 07/07/22 00:00

Date Received: 07/08/22 16:08

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:57	07/15/22 09:16	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:57	07/15/22 09:16	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:57	07/15/22 09:16	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/14/22 09:57	07/15/22 09:16	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:57	07/15/22 09:16	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/14/22 09:57	07/15/22 09:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130				07/14/22 09:57	07/15/22 09:16	

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Lab Sample ID: 890-2515-27

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Matrix: Solid

Job ID: 890-2515-1

SDG: Lea County NM

Client: Tetra Tech, Inc.
Project/Site: Kaiser SWD

Client Sample ID: BH-134 8 Lab Sample ID: 890-2515-27

Date Collected: 07/07/22 00:00 Matrix: Solid
Date Received: 07/08/22 16:08

Sample Depth: 8

Method: 8021B - Volatile Organic C	Compounds (GC) (Continued)
------------------------------------	----------------------------

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	78	70 - 130	07/14/22 09:57	07/15/22 09:16	1

Method: Total	BTEX - Total BTEX	Calculation
mothou, rotu	DIEM IOUIDIEM	Ouloulution

Analyte	Result	Qualifier	RL	MDL	Unit	 D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00403	U	0.00403		mg/Kg		_	07/15/22 08:13	1

1 1	Mothod:	8015 NM	Discol	Pango O	raaniee i		(CC)
1	vietilou.	OU 13 INIVI	- Diesei	Rallye C	n yanicə i	UNU	1001

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg]		07/13/22 09:51	1

Method: 8015B	NM Discol	Dange Ore	aaniee (DD()) (CC)
MICHIOU. OU IOD	INIVI - DIESEI	Rallue Oli	ualiics lunc	JI (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/12/22 15:30	07/13/22 14:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/12/22 15:30	07/13/22 14:24	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/22 15:30	07/13/22 14:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86	70 - 130	07/12/22 15:30	07/13/22 14:24	1
o-Terphenyl	101	70 - 130	07/12/22 15:30	07/13/22 14:24	1

Method: 300.0 - Anions, Ion C	Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	ı	D	Prepared	Analyzed	Dil Fac
Chloride	1300		5.01		mg/Kg				07/14/22 08:47	1

Client Sample ID: BH-135 8

Date Collected: 07/07/22 00:00

Matrix: Solid

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Mathad.	0024D	V-1-4:1-	O	Compounds	
wethod:	OUZID -	voiatile	Organic (Jompounas.	166

mounda. our ib volutile orga	illo compoundo ((33)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 09:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 09:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 09:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/14/22 09:57	07/15/22 09:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 09:42	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/14/22 09:57	07/15/22 09:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				07/14/22 09:57	07/15/22 09:42	1
1,4-Difluorobenzene (Surr)	74		70 - 130				07/14/22 09:57	07/15/22 09:42	1

Mothod:	Total RT	Y - Total I	RTEY Ca	lculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399		ma/Ka			07/15/22 08:13	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC	Method: 8015 NM -	- Diesel Range	Organics (DRO)	(GC
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Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			07/13/22 09:51	1

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Lab Sample ID: 890-2515-28

Lab Sample ID: 890-2515-29

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-135 8

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		07/12/22 15:30	07/13/22 14:45	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		07/12/22 15:30	07/13/22 14:45	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/12/22 15:30	07/13/22 14:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				07/12/22 15:30	07/13/22 14:45	1
o-Terphenyl	103		70 - 130				07/12/22 15:30	07/13/22 14:45	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			4.97		mg/Kg			07/14/22 10:01	

Client Sample ID: BH-136 8

Date Collected: 07/07/22 00:00

Date Received: 07/08/22 16:08

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 10:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 10:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 10:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/22 09:57	07/15/22 10:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 10:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/22 09:57	07/15/22 10:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	148	S1+	70 - 130				07/14/22 09:57	07/15/22 10:08	1
1,4-Difluorobenzene (Surr)	72		70 - 130				07/14/22 09:57	07/15/22 10:08	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			07/15/22 08:13	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/13/22 09:51	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/12/22 15:30	07/13/22 15:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/12/22 15:30	07/13/22 15:07	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/22 15:30	07/13/22 15:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				07/12/22 15:30	07/13/22 15:07	1

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7/20/2022

Lab Sample ID: 890-2515-29

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-136 8

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Method: 300.0 - Anions, Ion Chrom	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	490		4.98		mg/Kg			07/14/22 10:09	1

Client Sample ID: BH-137 8

Date Collected: 07/07/22 00:00

Lab Sample ID: 890-2515-30

Matrix: Solid

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:57	07/15/22 10:34	
Toluene	< 0.00201	U	0.00201		mg/Kg		07/14/22 09:57	07/15/22 10:34	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:57	07/15/22 10:34	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/22 09:57	07/15/22 10:34	
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:57	07/15/22 10:34	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/14/22 09:57	07/15/22 10:34	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	17	S1-	70 - 130				07/14/22 09:57	07/15/22 10:34	
1,4-Difluorobenzene (Surr)	79		70 - 130				07/14/22 09:57	07/15/22 10:34	
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/15/22 08:13	
Method: 8015 NM - Diesel Range	•								
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9		mg/Kg			07/13/22 09:51	
Method: 8015B NM - Diesel Rang	•								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/12/22 15:30	07/13/22 15:28	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/12/22 15:30	07/13/22 15:28	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/12/22 15:30	07/13/22 15:28	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	91		70 - 130				07/12/22 15:30	07/13/22 15:28	
o-Terphenyl	104		70 - 130				07/12/22 15:30	07/13/22 15:28	
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa

Lab Sample ID: 890-2515-31

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-138 8

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 11:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 11:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 11:01	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/14/22 09:57	07/15/22 11:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 11:01	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/14/22 09:57	07/15/22 11:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130				07/14/22 09:57	07/15/22 11:01	1
1,4-Difluorobenzene (Surr)	76		70 - 130				07/14/22 09:57	07/15/22 11:01	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			07/15/22 08:13	1
Method: 8015 NM - Diesel Range Analyte	•	, , ,	DI	MDI	Unit	D	Propared	Analyzod	Dil Ea
•	•	, , ,	RI	MDI	Unit	n	Prenared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH	•	O) (GC) Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 07/13/22 09:51	
Analyte	Result 55.9	Qualifier		MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result 55.9 ge Organics (Di	Qualifier		MDL MDL	mg/Kg	D	Prepared Prepared		1
Analyte Total TPH Method: 8015B NM - Diesel Ran	Result 55.9 ge Organics (Di	Qualifier RO) (GC) Qualifier	50.0		mg/Kg		<u> </u>	07/13/22 09:51	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 55.9 ge Organics (DI Result	Qualifier RO) (GC) Qualifier	50.0		mg/Kg		Prepared	07/13/22 09:51 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result 55.9 ge Organics (Di Result <50.0	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0		mg/Kg Unit mg/Kg		Prepared 07/12/22 15:30	07/13/22 09:51 Analyzed 07/13/22 16:11	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/12/22 15:30 07/12/22 15:30	07/13/22 09:51 Analyzed 07/13/22 16:11 07/13/22 16:11	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/12/22 15:30 07/12/22 15:30 07/12/22 15:30	07/13/22 09:51 Analyzed 07/13/22 16:11 07/13/22 16:11 07/13/22 16:11	Dil Face 1 1 Dil Face
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/12/22 15:30 07/12/22 15:30 07/12/22 15:30 Prepared	07/13/22 09:51 Analyzed 07/13/22 16:11 07/13/22 16:11 07/13/22 16:11 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/12/22 15:30 07/12/22 15:30 07/12/22 15:30 Prepared 07/12/22 15:30	07/13/22 09:51 Analyzed 07/13/22 16:11 07/13/22 16:11 Analyzed 07/13/22 16:11	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 07/12/22 15:30 07/12/22 15:30 07/12/22 15:30 Prepared 07/12/22 15:30	07/13/22 09:51 Analyzed 07/13/22 16:11 07/13/22 16:11 Analyzed 07/13/22 16:11	Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac

Client Sample ID: BH-139 8

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:57	07/15/22 11:27	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:57	07/15/22 11:27	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:57	07/15/22 11:27	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/14/22 09:57	07/15/22 11:27	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:57	07/15/22 11:27	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/14/22 09:57	07/15/22 11:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130				07/14/22 09:57	07/15/22 11:27	1

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Matrix: Solid

Lab Sample ID: 890-2515-32

Lab Sample ID: 890-2515-32

Lab Sample ID: 890-2515-33

Matrix: Solid

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-139 8

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Method: 8021B - Volatile Organic Con	noounds (GC)	(Continued)
motifical collision of gains con	ipodiido (OO)	(Continuou,

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	74		70 - 130	07/14/22 09:57	07/15/22 11:27	1

Method: Total	BTEX - Total	BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	כ	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg		_	07/15/22 08:13	1

1 1	Mothod:	8015 NM	Discol	Pango O	raaniee i		(CC)
1	vietilou.	OU 13 INIVI	- Diesei	Rallye C	n yanicə i	UNU	1001

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			07/13/22 09:51	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/12/22 15:30	07/13/22 16:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/12/22 15:30	07/13/22 16:32	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/12/22 15:30	07/13/22 16:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92	70 - 130	07/12/22 15:30	07/13/22 16:32	1
o-Terphenyl	106	70 - 130	07/12/22 15:30	07/13/22 16:32	1

Method: 300.0 - Anions, lor	n Chromatography - Soluble

Analyte	Result Qualifi		MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1390	25.0	mg/Kg			07/14/22 15:23	5

Client Sample ID: BH-140 8

Date Collected: 07/06/22 00:00

Date Received: 07/08/22 16:08

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/14/22 10:08	07/15/22 23:49	1
Toluene	< 0.00199	U	0.00199		mg/Kg		07/14/22 10:08	07/15/22 23:49	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		07/14/22 10:08	07/15/22 23:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/22 10:08	07/15/22 23:49	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		07/14/22 10:08	07/15/22 23:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/22 10:08	07/15/22 23:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				07/14/22 10:08	07/15/22 23:49	1
1,4-Difluorobenzene (Surr)	107		70 - 130				07/14/22 10:08	07/15/22 23:49	1

Method:	Total RTF	X - Total RTFX	Calculation

Analyte	Result Qual	lifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398 U	0.00398	ma/Ka			07/15/22 08:13	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8 U	49.8	mg/Kg			07/13/22 09:51	1

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Lab Sample ID: 890-2515-33

Lab Sample ID: 890-2515-34

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-140 8

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		07/12/22 15:30	07/13/22 16:53	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		07/12/22 15:30	07/13/22 16:53	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/12/22 15:30	07/13/22 16:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				07/12/22 15:30	07/13/22 16:53	1
o-Terphenyl	103		70 - 130				07/12/22 15:30	07/13/22 16:53	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	970		4.97		mg/Kg			07/14/22 15:31	

Client Sample ID: BH-141 8

Date Collected: 07/07/22 00:00

Date Received: 07/08/22 16:08

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/14/22 10:08	07/16/22 00:10	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/14/22 10:08	07/16/22 00:10	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/14/22 10:08	07/16/22 00:10	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/14/22 10:08	07/16/22 00:10	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/14/22 10:08	07/16/22 00:10	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/14/22 10:08	07/16/22 00:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				07/14/22 10:08	07/16/22 00:10	1
1,4-Difluorobenzene (Surr)	104		70 - 130				07/14/22 10:08	07/16/22 00:10	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			07/15/22 08:13	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	61.0		49.9		mg/Kg			07/13/22 09:51	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/12/22 15:30	07/13/22 17:15	1
Diesel Range Organics (Over C10-C28)	61.0		49.9		mg/Kg		07/12/22 15:30	07/13/22 17:15	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/12/22 15:30	07/13/22 17:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				07/12/22 15:30	07/13/22 17:15	1
o-Terphenyl	101		70 - 130				07/12/22 15:30	07/13/22 17:15	1

Lab Sample ID: 890-2515-34

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-141 8

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2410		24.8		mg/Kg			07/14/22 15:55	5

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Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-17011-A-1-D MS	Matrix Spike	122	79	
880-17011-A-1-E MSD	Matrix Spike Duplicate	124	80	
890-2515-1	SW34 0-6	109	104	
390-2515-2	SW35 0-6	160 S1+	96	
890-2515-3	SW36 0-6	107	107	
890-2515-4	SW37 0-6	103	107	
890-2515-5	BH-106 6	114	113	
890-2515-6	BH-108 6	110	107	
890-2515-7	BH-114 10	174 S1+	126	
890-2515-8	BH-115 10	205 S1+	128	
890-2515-9	BH-116 10	180 S1+	126	
890-2515-10	BH-117 10	186 S1+	127	
890-2515-11	BH-118 10	103	62 S1-	
890-2515-12	BH-119 8	118	110	
890-2515-13	BH-120 8	120	95	
890-2515-13 MS	BH-120 8	132 S1+	78	
890-2515-13 MSD	BH-120 8	112	76 91	
890-2515-13 WSD	BH-121 8	137 S1+	80	
890-2515-15	BH-122 8	135 S1+	76	
890-2515-16	BH-123 8	149 S1+	80	
890-2515-17	BH-124 8	145 S1+	74	
890-2515-18	BH-125 8	147 S1+	74	
890-2515-19	BH-126 8	147 S1+	76	
890-2515-20	BH-127 8	144 S1+	77	
890-2515-21	BH-128 8	147 S1+	72	
890-2515-22	BH-129 8	129	74	
890-2515-23	BH-130 8	135 S1+	80	
890-2515-24	BH-131 8	132 S1+	76	
890-2515-25	BH-132 8	150 S1+	74	
890-2515-26	BH-133 8	142 S1+	81	
890-2515-27	BH-134 8	142 S1+	78	
890-2515-28	BH-135 8	118	74	
890-2515-29	BH-136 8	148 S1+	72	
890-2515-30	BH-137 8	17 S1-	79	
890-2515-31	BH-138 8	139 S1+	76	
890-2515-32	BH-139 8	135 S1+	74	
890-2515-33	BH-140 8	107	107	
890-2515-33 MS	BH-140 8	98	100	
890-2515-33 MSD	BH-140 8	97	98	
890-2515-34	BH-141 8	104	104	
LCS 880-29722/1-A	Lab Control Sample	94	102	
LCS 880-29723/1-A	Lab Control Sample	129	77	
LCS 880-29739/1-A	Lab Control Sample	97	98	
LCS 880-29987/1-A	Lab Control Sample	119	90	
LCSD 880-29722/2-A	Lab Control Sample Dup	98	101	
LCSD 880-29723/2-A	Lab Control Sample Dup	138 S1+	78	
LCSD 880-29739/2-A	Lab Control Sample Dup	102	96	
LCSD 880-29987/2-A	Lab Control Sample Dup	127	92	
MB 880-29669/5-A	Method Blank	95	77	

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Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
MB 880-29722/5-A	Method Blank	106	108	
MB 880-29723/5-A	Method Blank	98	74	
MB 880-29739/5-A	Method Blank	102	108	
MB 880-29987/5-A	Method Blank	87	84	
Surrogate Legend				
BFB = 4-Bromofluorobei	nzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

				Percent Surrogate Recovery (Acceptance Limits)
		1001	ОТРН1	recent our ogate receivery (Acceptance Linits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2515-1	SW34 0-6	95	109	
890-2515-1 MS	SW34 0-6	80	79	
890-2515-1 MSD	SW34 0-6	81	79	
890-2515-2	SW35 0-6	92	106	
890-2515-3	SW36 0-6	91	102	
390-2515-4	SW37 0-6	98	112	
390-2515-5	BH-106 6	111	125	
390-2515-6	BH-108 6	89	103	
390-2515-7	BH-114 10	95	105	
890-2515-8	BH-115 10	84	96	
390-2515-9	BH-116 10	113	125	
390-2515-10	BH-117 10	120	133 S1+	
390-2515-11	BH-118 10	90	94	
390-2515-12	BH-119 8	97	100	
390-2515-13	BH-120 8	88	102	
390-2515-14	BH-121 8	107	118	
390-2515-15	BH-122 8	108	119	
390-2515-16	BH-123 8	89	103	
390-2515-17	BH-124 8	93	107	
390-2515-18	BH-125 8	86	98	
390-2515-19	BH-126 8	106	115	
390-2515-20	BH-127 8	93	106	
390-2515-21	BH-128 8	93	107	
890-2515-21 MS	BH-128 8	79	92	
890-2515-21 MSD	BH-128 8	80	93	
390-2515-22	BH-129 8	89	103	
390-2515-23	BH-130 8	102	113	
390-2515-24	BH-131 8	86	0.05 S1-	
890-2515-25	BH-132 8	88	102	
390-2515-26	BH-133 8	86	101	
390-2515-27	BH-134 8	86	101	
390-2515-28	BH-135 8	92	103	
390-2515-29	BH-136 8	92	103	
890-2515-30	BH-137 8	91	104	
390-2515-31	BH-138 8	98	111	
390-2515-32	BH-139 8	92	106	

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2515-33	BH-140 8	90	103	
890-2515-34	BH-141 8	91	101	
LCS 880-29557/2-A	Lab Control Sample	99	107	
LCS 880-29563/2-A	Lab Control Sample	99	112	
LCSD 880-29557/3-A	Lab Control Sample Dup	101	110	
LCSD 880-29563/3-A	Lab Control Sample Dup	102	113	
MB 880-29557/1-A	Method Blank	94	108	
MB 880-29563/1-A	Method Blank	100	118	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

Job ID: 890-2515-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-29669/5-A

Analysis Batch: 29700

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29669

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	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000400	U	0.000400		mg/Kg		07/13/22 13:52	07/14/22 11:30	
Toluene	<0.000400	U	0.000400		mg/Kg		07/13/22 13:52	07/14/22 11:30	
Ethylbenzene	<0.000400	U	0.000400		mg/Kg		07/13/22 13:52	07/14/22 11:30	
m-Xylene & p-Xylene	<0.000800	U	0.000800		mg/Kg		07/13/22 13:52	07/14/22 11:30	
o-Xylene	<0.000400	U	0.000400		mg/Kg		07/13/22 13:52	07/14/22 11:30	
Xylenes, Total	<0.000800	U	0.000800		mg/Kg		07/13/22 13:52	07/14/22 11:30	

MB MB

MR MR

MD MD

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	_	07/13/22 13:52	07/14/22 11:30	1
1,4-Difluorobenzene (Surr)	77		70 - 130		07/13/22 13:52	07/14/22 11:30	1

Lab Sample ID: MB 880-29722/5-A

Matrix: Solid

Analysis Batch: 29790

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 29722

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 07/14/22 09:52 07/15/22 11:11 Toluene <0.00200 U 0.00200 mg/Kg 07/14/22 09:52 07/15/22 11:11 Ethylbenzene <0.00200 U 0.00200 mg/Kg 07/14/22 09:52 07/15/22 11:11 07/14/22 09:52 07/15/22 11:11 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg <0.00200 U 0.00200 07/14/22 09:52 07/15/22 11:11 o-Xylene mg/Kg Xylenes, Total <0.00400 U 0.00400 mg/Kg 07/14/22 09:52 07/15/22 11:11

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	07/14/22 09:52	07/15/22 11:11	1
1,4-Difluorobenzene (Surr)	108		70 - 130	07/14/22 09:52	07/15/22 11:11	1

Lab Sample ID: LCS 880-29722/1-A

Matrix: Solid

Analysis Batch: 29790

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29722

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1075		mg/Kg		107	70 - 130	
Toluene	0.100	0.09814		mg/Kg		98	70 - 130	
Ethylbenzene	0.100	0.08616		mg/Kg		86	70 - 130	
m-Xylene & p-Xylene	0.200	0.1710		mg/Kg		85	70 - 130	
o-Xylene	0.100	0.09010		mg/Kg		90	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifie	er Limits
4-Bromofluorobenzene (Surr)	94	70 - 130
1.4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: LCSD 880-29722/2-A

Matrix: Solid

Analysis Batch: 29790

Client Sample	ID: Lab Control	Sample Dup
	Dunin Ti	T-4-1/NIA

Prep Type: Total/NA

Prep Batch: 29722

RPD

Spike LCSD LCSD %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Benzene 0.100 0.09685 mg/Kg 97 70 - 130 10

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-29722/2-A

Matrix: Solid

Analysis Batch: 29790

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 29722

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.09023		mg/Kg		90	70 - 130	8	35
Ethylbenzene	0.100	0.08012		mg/Kg		80	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1601		mg/Kg		80	70 - 130	7	35
o-Xylene	0.100	0.08531		mg/Kg		85	70 - 130	5	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	98	70 - 130
1,4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: MB 880-29723/5-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 29700

мв мв

Prep Type: Total/NA

Prep Batch: 29723

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 01:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 01:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 01:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/22 09:57	07/15/22 01:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:57	07/15/22 01:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/22 09:57	07/15/22 01:08	1

MB MB

Surrogate	%Recovery Qual	alifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98	70 - 130	07/14/22 09:57	07/15/22 01:08	1
1,4-Difluorobenzene (Surr)	74	70 - 130	07/14/22 09:57	07/15/22 01:08	1

Lab Sample ID: LCS 880-29723/1-A

Matrix: Solid

Analysis Batch: 29700

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29723

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07927		mg/Kg		79	70 - 130	
Toluene	0.100	0.08725		mg/Kg		87	70 - 130	
Ethylbenzene	0.100	0.09476		mg/Kg		95	70 - 130	
m-Xylene & p-Xylene	0.200	0.1923		mg/Kg		96	70 - 130	
o-Xylene	0.100	0.1021		mg/Kg		102	70 - 130	

LCS LCS

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	129		70 - 130
1.4-Difluorobenzene (Surr)	77		70 - 130

Lab Sample ID: LCSD 880-29723/2-A

Matrix: Solid

Analysis Batch: 29700

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 29723

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08406		mg/Kg		84	70 - 130	6	35
Toluene	0.100	0.09646		mg/Kg		96	70 - 130	10	35
Ethylbenzene	0.100	0.09969		mg/Kg		100	70 - 130	5	35

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-29723/2-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 29700** Prep Batch: 29723 Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit 0.200 0.2043 102 70 - 130 35 m-Xylene & p-Xylene mg/Kg 6

0.1087

mg/Kg

109

70 - 130

0.100

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130
1.4-Difluorobenzene (Surr)	78		70 - 130

Lab Sample ID: 890-2515-13 MS Client Sample ID: BH-120 8

Matrix: Solid

o-Xylene

Prep Type: Total/NA

Analysis Batch: 29700 Prep Batch: 29723

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U F1 F2	0.100	0.08436	-	mg/Kg		84	70 - 130	
Toluene	<0.00201	U F1 F2	0.100	0.08782		mg/Kg		88	70 - 130	
Ethylbenzene	<0.00201	U F1 F2	0.100	0.08772		mg/Kg		88	70 - 130	
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.200	0.1196	F1	mg/Kg		60	70 - 130	
o-Xylene	<0.00201	U F1 F2	0.100	0.09763		mg/Kg		97	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 132 S1+ 78 70 - 130 1,4-Difluorobenzene (Surr)

Lab Sample ID: 890-2515-13 MSD Client Sample ID: BH-120 8

Matrix: Solid

Analysis Batch: 29700

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U F1 F2	0.0994	0.05294	F1 F2	mg/Kg		53	70 - 130	46	35
Toluene	<0.00201	U F1 F2	0.0994	0.03890	F1 F2	mg/Kg		39	70 - 130	77	35
Ethylbenzene	<0.00201	U F1 F2	0.0994	0.04605	F1 F2	mg/Kg		46	70 - 130	62	35
m-Xylene & p-Xylene	<0.00402	U F1 F2	0.199	0.04969	F1 F2	mg/Kg		25	70 - 130	83	35
o-Xylene	<0.00201	U F1 F2	0.0994	0.05486	F1 F2	mg/Kg		55	70 - 130	56	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1 4-Difluorobenzene (Surr)	91		70 130

<0.00200 U

<0.00400 U

Lab Sample ID: MB 880-29739/5-A Client Sample ID: Method Blank

Matrix: Solid Analysis Batch: 29790

o-Xylene

Xylenes, Total

Analysis Batch: 29790								Prep Batch	n: 29739
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/22 10:08	07/15/22 23:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 10:08	07/15/22 23:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 10:08	07/15/22 23:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/22 10:08	07/15/22 23:27	1

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07/15/22 23:27

07/15/22 23:27

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 29723

0.00200

0.00400

mg/Kg

mg/Kg

07/14/22 10:08

07/14/22 10:08

Prep Batch: 29739

Job ID: 890-2515-1 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

	МВ	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	07/14/22 10:08	07/15/22 23:27	1
1,4-Difluorobenzene (Surr)	108		70 - 130	07/14/22 10:08	07/15/22 23:27	1

Lab Sample ID: LCS 880-29739/1-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 29790

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09154		mg/Kg		92	70 - 130	
Toluene	0.100	0.08982		mg/Kg		90	70 - 130	
Ethylbenzene	0.100	0.08005		mg/Kg		80	70 - 130	
m-Xylene & p-Xylene	0.200	0.1608		mg/Kg		80	70 - 130	
o-Xylene	0.100	0.08701		mg/Kg		87	70 - 130	

LCS LCS %Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 70 - 130 97 1,4-Difluorobenzene (Surr) 98 70 - 130

Lab Sample ID: LCSD 880-29739/2-A

Matrix: Solid

Analysis Batch: 29790

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA Prep Batch: 29739

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07913		mg/Kg		79	70 - 130	15	35
Toluene	0.100	0.08469		mg/Kg		85	70 - 130	6	35
Ethylbenzene	0.100	0.07885		mg/Kg		79	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1600		mg/Kg		80	70 - 130	0	35
o-Xylene	0.100	0.08634		mg/Kg		86	70 - 130	1	35

LCSD LCSD %Recovery Qualifier Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 102 1,4-Difluorobenzene (Surr) 96 70 - 130

Lab Sample ID: 890-2515-33 MS Client Sample ID: BH-140 8 Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 29790 Prep Batch: 29739 Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit Limits

Benzene	<0.00199	U	0.101	0.09282	mg/Kg	92	70 - 130	
Toluene	<0.00199	U	0.101	0.08759	mg/Kg	87	70 - 130	
Ethylbenzene	<0.00199	U	0.101	0.07718	mg/Kg	77	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.201	0.1511	mg/Kg	75	70 - 130	
o-Xylene	<0.00199	U	0.101	0.08237	mg/Kg	82	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

QC Sample Results

Job ID: 890-2515-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2515-33 MSD

Matrix: Solid

Analysis Batch: 29790

Client Sample ID: BH-140 8 Prep Type: Total/NA

Prep Batch: 29739

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.100	0.09466		mg/Kg		94	70 - 130	2	35
Toluene	<0.00199	U	0.100	0.08989		mg/Kg		90	70 - 130	3	35
Ethylbenzene	<0.00199	U	0.100	0.07866		mg/Kg		79	70 - 130	2	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1542		mg/Kg		77	70 - 130	2	35
o-Xylene	<0.00199	U	0.100	0.08371		mg/Kg		84	70 - 130	2	35

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	97	70 - 130
1 4-Difluorobenzene (Surr)	98	70 130

Lab Sample ID: MB 880-29987/5-A

Matrix: Solid

Analysis Batch: 30016

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29987

Result Qualifier MDL Unit Prepared Analyzed Dil Fac Analyte RL D Benzene <0.000400 U 0.000400 mg/Kg 07/18/22 15:14 07/19/22 11:53 Toluene <0.000400 U 0.000400 mg/Kg 07/18/22 15:14 07/19/22 11:53 Ethylbenzene <0.000400 U 0.000400 mg/Kg 07/18/22 15:14 07/19/22 11:53 mg/Kg m-Xylene & p-Xylene <0.000800 U 0.000800 07/18/22 15:14 07/19/22 11:53 <0.000400 U 0.000400 07/18/22 15:14 07/19/22 11:53 o-Xylene mg/Kg <0.000800 U 0.000800 07/19/22 11:53 Xylenes, Total mg/Kg 07/18/22 15:14

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	07/18/22 15:14	07/19/22 11:53	1
1,4-Difluorobenzene (Surr)	84		70 - 130	07/18/22 15:14	07/19/22 11:53	1

Lab Sample ID: LCS 880-29987/1-A

Matrix: Solid

Analysis Batch: 30016

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 29987

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1014 mg/Kg 101 70 - 130 Toluene 0.100 0.1022 mg/Kg 102 70 - 130 Ethylbenzene 0.100 0.1103 mg/Kg 110 70 - 130 0.200 m-Xylene & p-Xylene 0.2162 mg/Kg 108 70 - 130 0.100 o-Xylene 0.1134 mg/Kg 113 70 - 130

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1.4-Difluorobenzene (Surr)	90		70 ₋ 130

Lab Sample ID: LCSD 880-29987/2-A

Matrix: Solid

Analysis Batch: 30016

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 29987

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1075		mg/Kg		108	70 - 130	6	35
Toluene	0.100	0.1084		mg/Kg		108	70 - 130	6	35

QC Sample Results

Job ID: 890-2515-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-29987/2-A

Lab Sample ID: 880-17011-A-1-D MS

Matrix: Solid

Matrix: Solid

Analysis Batch: 30016

Analysis Batch: 30016

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 29987

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Ethylbenzene	0.100	0.1173		mg/Kg		117	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2293		mg/Kg		115	70 - 130	6	35
o-Xylene	0.100	0.1192		mg/Kg		119	70 - 130	5	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 29987

Sample Sample Spike MS MS Result Qualifier Added Result Qualifier %Rec Analyte Unit Limits 0.0998 Benzene <0.00200 UF1 0.05315 F1 mg/Kg 53 70 - 130 Toluene 0.0998 58 <0.00200 UF1 0.05812 F1 mg/Kg 70 - 130 Ethylbenzene <0.00200 UF1 0.0998 0.06366 F1 mg/Kg 64 70 - 130 0.200 70 - 130 m-Xylene & p-Xylene <0.00399 UF1 0.1212 F1 mg/Kg 61 0.0998 <0.00200 UF1 0.06845 F1 69 70 - 130 o-Xylene mg/Kg

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	122	70 _ 130
1.4-Difluorobenzene (Surr)	79	70 - 130

Lab Sample ID: 880-17011-A-1-E MSD

Matrix: Solid

Analysis Batch: 30016

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 29987

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U F1	0.100	0.03929	F1	mg/Kg		39	70 - 130	30	35
Toluene	<0.00200	U F1	0.100	0.04309	F1	mg/Kg		43	70 - 130	30	35
Ethylbenzene	<0.00200	U F1	0.100	0.04664	F1	mg/Kg		47	70 - 130	31	35
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.08957	F1	mg/Kg		45	70 - 130	30	35
o-Xylene	<0.00200	U F1	0.100	0.05185	F1	mg/Kg		52	70 - 130	28	35

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	124	70 - 130
1,4-Difluorobenzene (Surr)	80	70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-29557/1-A

Matrix: Solid

Analysis Batch: 29499

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29557

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/12/22 19:42	1
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/12/22 19:42	1

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Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-29557/1-A

Matrix: Solid

Analysis Batch: 29499

Client Sample	ID:	Method	Blank
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Prep Type: Total/NA

Prep Batch: 29557

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/12/22 19:42	1

мв мв

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	07/12/22 14:24	07/12/22 19:42	1
o-Terphenyl	108		70 - 130	07/12/22 14:24	07/12/22 19:42	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-29557/2-A **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 29499**

Prep Batch: 29557

mg/Kg

Spike LCS LCS Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 841.3 mg/Kg 84 70 - 130 (GRO)-C6-C10 1000 70 - 130

C10-C28)

Diesel Range Organics (Over

LCS LCS %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 99 o-Terphenyl 107 70 - 130

Client Sample ID: Lab Control Sample Dup

86

Lab Sample ID: LCSD 880-29557/3-A **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 29499 Prep Batch: 29557

860.2

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	831.8		mg/Kg		83	70 - 130	1	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	872.7		mg/Kg		87	70 - 130	1	20	
C10-C28)										

LCSD LCSD %Recovery Qualifier Limits Surrogate 1-Chlorooctane 101 70 - 130 o-Terphenyl 110 70 - 130

Lab Sample ID: 890-2515-1 MS Client Sample ID: SW34 0-6

Matrix: Solid

Analysis Batch: 29499 Prep Batch: 29557 Sample Sample Spike MS MS %Rec

	•	•	•							
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U F2	996	1008		mg/Kg		98	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	996	849.4		mg/Kg		85	70 - 130	
0.40, 0.00\										

C10-C28)

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	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	80		70 - 130
o-Terphenyl	79		70 - 130

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Prep Type: Total/NA

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-2515-1 MSD

Matrix: Solid Analysis Batch: 29499 Client Sample ID: SW34 0-6 Prep Type: Total/NA

Prep Batch: 29557

Sample Sample Spike MSD MSD RPD Result Qualifier RPD Limit Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics <49.9 U F2 998 742.9 F2 mg/Kg 72 70 - 130 30 20 (GRO)-C6-C10 998 Diesel Range Organics (Over <49.9 U 860.6 mg/Kg 86 70 - 130 1

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	79		70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 29563

Prep Batch: 29563

Matrix: Solid

Analysis Batch: 29603

Lab Sample ID: MB 880-29563/1-A

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/12/22 15:30	07/13/22 10:27	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/12/22 15:30	07/13/22 10:27	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/22 15:30	07/13/22 10:27	1
	Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Analyte Result Gasoline Range Organics <50.0 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 C10-C28)	Gasoline Range Organics <50.0 U (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U C10-C28)	Analyte Result Qualifier RL Gasoline Range Organics <50.0	Analyte Result Qualifier RL MDL Gasoline Range Organics <50.0	Analyte Result Qualifier RL MDL Unit Gasoline Range Organics <50.0	Analyte Result Qualifier RL MDL Unit D Gasoline Range Organics <50.0	Analyte Result Qualifier RL MDL Unit D Prepared Gasoline Range Organics <50.0	Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Gasoline Range Organics <50.0

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100	70 - 130	07/12/22 15:30	07/13/22 10:27	1
o-Terphenyl	118	70 - 130	07/12/22 15:30	07/13/22 10:27	1

Lab Sample ID: LCS 880-29563/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 29603

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	877.2		mg/Kg		88	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	913.4		mg/Kg		91	70 - 130	
C10 C28)								

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: LCSD 880-29563/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 29603							Prep	Batch:	29563
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	889.2	-	mg/Kg		89	70 - 130	1	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	975.7		mg/Kg		98	70 - 130	7	20
C10-C28)									

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Prep Type: Total/NA

Job ID: 890-2515-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-29563/3-A

Matrix: Solid

Analysis Batch: 29603

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 29563

LCSD LCSD %Recovery Qualifier Surrogate

Limits 1-Chlorooctane 102 70 - 130 o-Terphenyl 113 70 - 130

Lab Sample ID: 890-2515-21 MS Client Sample ID: BH-128 8

Matrix: Solid Prep Type: Total/NA Analysis Batch: 29603 Prep Batch: 29563

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits <49.9 UF1 <49.8 UF1 996 0 70 - 130Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 996 0 <49.9 U F1 <49.8 U F1 mg/Kg 70 - 130C10-C28)

MS MS

%Recovery Surrogate Qualifier Limits 79 70 - 130 1-Chlorooctane 92 70 - 130 o-Terphenyl

Lab Sample ID: 890-2515-21 MSD

Matrix: Solid

Analysis Batch: 29603

Client Sample ID: BH-128 8 Prep Type: Total/NA

Prep Batch: 29563

Sample Sample Spike MSD MSD Analyte Result Qualifier hahhA Result Qualifier Unit %Rec Limits RPD Limit D Gasoline Range Organics <49.9 U F1 998 <49.9 U F1 mg/Kg 0 70 - 130 NC 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 UF1 998 <49.9 U F1 mg/Kg 0 70 - 130 NC 20

C10-C28)

MSD MSD Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 80 o-Terphenyl 70 - 130 93

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-29402/1-A Client Sample ID: Method Blank **Matrix: Solid**

Analysis Batch: 29640

Prep Type: Soluble

MB MB Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 07/14/22 03:23

Lab Sample ID: LCS 880-29402/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 29640

	Spike	LCS LCS				%Rec
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits
Chloride	250	258.0	mg/Kg		103	90 - 110

Job ID: 890-2515-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-29402/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** Analysis Batch: 29640 Spike LCSD LCSD RPD %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit

D

Chloride 250 258.0 mg/Kg 103 90 - 110 20 Lab Sample ID: 890-2515-1 MS Client Sample ID: SW34 0-6

Matrix: Solid Prep Type: Soluble

Analysis Batch: 29640 Sample Sample Spike MS MS %Rec Qualifier Added Analyte Result Result Qualifier Unit D %Rec Limits

Chloride 20.4 251 271.0 mg/Kg 100 90 - 110

Lab Sample ID: 890-2515-1 MSD Client Sample ID: SW34 0-6 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 29640

MSD MSD RPD Spike %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 20.4 251 271.1 mg/Kg 100 90 - 110

Lab Sample ID: 890-2515-11 MS Client Sample ID: BH-118 10

Matrix: Solid Prep Type: Soluble Analysis Batch: 29640

MS MS Spike %Rec Sample Sample

Added %Rec Analyte Result Qualifier Result Qualifier Unit Limits Chloride 187 248 437.9 101 90 - 110 mg/Kg

Lab Sample ID: 890-2515-11 MSD Client Sample ID: BH-118 10 **Prep Type: Soluble Matrix: Solid**

Analysis Batch: 29640

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 187 248 438.6 mg/Kg 101 90 - 110

Lab Sample ID: MB 880-29401/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 29646 мв мв

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

Chloride <5.00 5.00 mg/Kg 07/14/22 07:05

Lab Sample ID: LCS 880-29401/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 29646

LCS LCS %Rec Spike Added Result Qualifier Limits Analyte Unit %Rec Chloride 250 257.7 mg/Kg 103 90 - 110

Lab Sample ID: LCSD 880-29401/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 29646

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 266.9 mg/Kg 107 90 - 110 20

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7/20/2022

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-2515-21 MS Client Sample ID: BH-128 8 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 29646

Sample Sample Spike MS MS %Rec Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits Chloride 582 252 824.4 mg/Kg 96 90 - 110

Lab Sample ID: 890-2515-21 MSD Client Sample ID: BH-128 8 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 29646

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Qualifier Limits RPD Limit Analyte Result Unit D %Rec Chloride 582 252 828.8 mg/Kg 98 90 - 110

Lab Sample ID: 890-2515-31 MS Client Sample ID: BH-138 8

Matrix: Solid Prep Type: Soluble

Analysis Batch: 29646

MS MS %Rec Sample Sample Spike

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 512 250 772.9 105 90 - 110 mg/Kg

Lab Sample ID: 890-2515-31 MSD Client Sample ID: BH-138 8 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 29646 Spike MSD MSD

RPD Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 779.8 512 107 90 - 110 20 mg/Kg

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

GC VOA

Prep Batch: 29669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-29669/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 29700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2515-13	BH-120 8	Total/NA	Solid	8021B	29723
890-2515-14	BH-121 8	Total/NA	Solid	8021B	29723
890-2515-15	BH-122 8	Total/NA	Solid	8021B	29723
890-2515-16	BH-123 8	Total/NA	Solid	8021B	29723
890-2515-17	BH-124 8	Total/NA	Solid	8021B	29723
890-2515-18	BH-125 8	Total/NA	Solid	8021B	29723
890-2515-19	BH-126 8	Total/NA	Solid	8021B	29723
890-2515-20	BH-127 8	Total/NA	Solid	8021B	29723
890-2515-21	BH-128 8	Total/NA	Solid	8021B	29723
890-2515-22	BH-129 8	Total/NA	Solid	8021B	29723
890-2515-23	BH-130 8	Total/NA	Solid	8021B	29723
890-2515-24	BH-131 8	Total/NA	Solid	8021B	29723
890-2515-25	BH-132 8	Total/NA	Solid	8021B	29723
890-2515-26	BH-133 8	Total/NA	Solid	8021B	29723
890-2515-27	BH-134 8	Total/NA	Solid	8021B	29723
890-2515-28	BH-135 8	Total/NA	Solid	8021B	29723
890-2515-29	BH-136 8	Total/NA	Solid	8021B	29723
890-2515-30	BH-137 8	Total/NA	Solid	8021B	29723
890-2515-31	BH-138 8	Total/NA	Solid	8021B	29723
890-2515-32	BH-139 8	Total/NA	Solid	8021B	29723
MB 880-29669/5-A	Method Blank	Total/NA	Solid	8021B	29669
MB 880-29723/5-A	Method Blank	Total/NA	Solid	8021B	29723
LCS 880-29723/1-A	Lab Control Sample	Total/NA	Solid	8021B	29723
LCSD 880-29723/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29723
890-2515-13 MS	BH-120 8	Total/NA	Solid	8021B	29723
890-2515-13 MSD	BH-120 8	Total/NA	Solid	8021B	29723

Prep Batch: 29722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-2515-1	SW34 0-6	Total/NA	Solid	5035	
890-2515-2	SW35 0-6	Total/NA	Solid	5035	
890-2515-3	SW36 0-6	Total/NA	Solid	5035	
890-2515-4	SW37 0-6	Total/NA	Solid	5035	
890-2515-5	BH-106 6	Total/NA	Solid	5035	
890-2515-6	BH-108 6	Total/NA	Solid	5035	
890-2515-7	BH-114 10	Total/NA	Solid	5035	
890-2515-8	BH-115 10	Total/NA	Solid	5035	
890-2515-9	BH-116 10	Total/NA	Solid	5035	
890-2515-10	BH-117 10	Total/NA	Solid	5035	
890-2515-12	BH-119 8	Total/NA	Solid	5035	
MB 880-29722/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29722/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29722/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 29723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2515-13	BH-120 8	Total/NA	Solid	5035	

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

GC VOA (Continued)

Prep Batch: 29723 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2515-14	BH-121 8	Total/NA	Solid	5035	
890-2515-15	BH-122 8	Total/NA	Solid	5035	
890-2515-16	BH-123 8	Total/NA	Solid	5035	
890-2515-17	BH-124 8	Total/NA	Solid	5035	
890-2515-18	BH-125 8	Total/NA	Solid	5035	
890-2515-19	BH-126 8	Total/NA	Solid	5035	
890-2515-20	BH-127 8	Total/NA	Solid	5035	
890-2515-21	BH-128 8	Total/NA	Solid	5035	
890-2515-22	BH-129 8	Total/NA	Solid	5035	
890-2515-23	BH-130 8	Total/NA	Solid	5035	
890-2515-24	BH-131 8	Total/NA	Solid	5035	
890-2515-25	BH-132 8	Total/NA	Solid	5035	
890-2515-26	BH-133 8	Total/NA	Solid	5035	
890-2515-27	BH-134 8	Total/NA	Solid	5035	
890-2515-28	BH-135 8	Total/NA	Solid	5035	
890-2515-29	BH-136 8	Total/NA	Solid	5035	
890-2515-30	BH-137 8	Total/NA	Solid	5035	
890-2515-31	BH-138 8	Total/NA	Solid	5035	
890-2515-32	BH-139 8	Total/NA	Solid	5035	
MB 880-29723/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29723/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29723/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2515-13 MS	BH-120 8	Total/NA	Solid	5035	
890-2515-13 MSD	BH-120 8	Total/NA	Solid	5035	

Prep Batch: 29739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2515-33	BH-140 8	Total/NA	Solid	5035	
890-2515-34	BH-141 8	Total/NA	Solid	5035	
MB 880-29739/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29739/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29739/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2515-33 MS	BH-140 8	Total/NA	Solid	5035	
890-2515-33 MSD	BH-140 8	Total/NA	Solid	5035	

Analysis Batch: 29790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2515-1	SW34 0-6	Total/NA	Solid	8021B	29722
890-2515-2	SW35 0-6	Total/NA	Solid	8021B	29722
890-2515-3	SW36 0-6	Total/NA	Solid	8021B	29722
890-2515-4	SW37 0-6	Total/NA	Solid	8021B	29722
890-2515-5	BH-106 6	Total/NA	Solid	8021B	29722
890-2515-6	BH-108 6	Total/NA	Solid	8021B	29722
890-2515-7	BH-114 10	Total/NA	Solid	8021B	29722
890-2515-8	BH-115 10	Total/NA	Solid	8021B	29722
890-2515-9	BH-116 10	Total/NA	Solid	8021B	29722
890-2515-10	BH-117 10	Total/NA	Solid	8021B	29722
890-2515-12	BH-119 8	Total/NA	Solid	8021B	29722
890-2515-33	BH-140 8	Total/NA	Solid	8021B	29739
890-2515-34	BH-141 8	Total/NA	Solid	8021B	29739
MB 880-29722/5-A	Method Blank	Total/NA	Solid	8021B	29722

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-2515-1

SDG: Lea County NM

GC VOA (Continued)

Analysis Batch: 29790 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-29739/5-A	Method Blank	Total/NA	Solid	8021B	29739
LCS 880-29722/1-A	Lab Control Sample	Total/NA	Solid	8021B	29722
LCS 880-29739/1-A	Lab Control Sample	Total/NA	Solid	8021B	29739
LCSD 880-29722/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29722
LCSD 880-29739/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29739
890-2515-33 MS	BH-140 8	Total/NA	Solid	8021B	29739
890-2515-33 MSD	BH-140 8	Total/NA	Solid	8021B	29739

Analysis Batch: 29793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2515-1	SW34 0-6	Total/NA	Solid	Total BTEX	
890-2515-2	SW35 0-6	Total/NA	Solid	Total BTEX	
890-2515-3	SW36 0-6	Total/NA	Solid	Total BTEX	
890-2515-4	SW37 0-6	Total/NA	Solid	Total BTEX	
890-2515-5	BH-106 6	Total/NA	Solid	Total BTEX	
890-2515-6	BH-108 6	Total/NA	Solid	Total BTEX	
890-2515-7	BH-114 10	Total/NA	Solid	Total BTEX	
890-2515-8	BH-115 10	Total/NA	Solid	Total BTEX	
890-2515-9	BH-116 10	Total/NA	Solid	Total BTEX	
890-2515-10	BH-117 10	Total/NA	Solid	Total BTEX	
890-2515-11	BH-118 10	Total/NA	Solid	Total BTEX	
890-2515-12	BH-119 8	Total/NA	Solid	Total BTEX	
890-2515-13	BH-120 8	Total/NA	Solid	Total BTEX	
890-2515-14	BH-121 8	Total/NA	Solid	Total BTEX	
890-2515-15	BH-122 8	Total/NA	Solid	Total BTEX	
890-2515-16	BH-123 8	Total/NA	Solid	Total BTEX	
890-2515-17	BH-124 8	Total/NA	Solid	Total BTEX	
890-2515-18	BH-125 8	Total/NA	Solid	Total BTEX	
890-2515-19	BH-126 8	Total/NA	Solid	Total BTEX	
890-2515-20	BH-127 8	Total/NA	Solid	Total BTEX	
890-2515-21	BH-128 8	Total/NA	Solid	Total BTEX	
890-2515-22	BH-129 8	Total/NA	Solid	Total BTEX	
890-2515-23	BH-130 8	Total/NA	Solid	Total BTEX	
890-2515-24	BH-131 8	Total/NA	Solid	Total BTEX	
890-2515-25	BH-132 8	Total/NA	Solid	Total BTEX	
890-2515-26	BH-133 8	Total/NA	Solid	Total BTEX	
890-2515-27	BH-134 8	Total/NA	Solid	Total BTEX	
890-2515-28	BH-135 8	Total/NA	Solid	Total BTEX	
890-2515-29	BH-136 8	Total/NA	Solid	Total BTEX	
890-2515-30	BH-137 8	Total/NA	Solid	Total BTEX	
890-2515-31	BH-138 8	Total/NA	Solid	Total BTEX	
890-2515-32	BH-139 8	Total/NA	Solid	Total BTEX	
890-2515-33	BH-140 8	Total/NA	Solid	Total BTEX	
890-2515-34	BH-141 8	Total/NA	Solid	Total BTEX	

Prep Batch: 29987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2515-11	BH-118 10	Total/NA	Solid	5035	
MB 880-29987/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29987/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29987/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

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Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC VOA (Continued)

Prep Batch: 29987 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17011-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-17011-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 30016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2515-11	BH-118 10	Total/NA	Solid	8021B	29987
MB 880-29987/5-A	Method Blank	Total/NA	Solid	8021B	29987
LCS 880-29987/1-A	Lab Control Sample	Total/NA	Solid	8021B	29987
LCSD 880-29987/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29987
880-17011-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	29987
880-17011-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	29987

GC Semi VOA

Analysis Batch: 29499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2515-1	SW34 0-6	Total/NA	Solid	8015B NM	29557
890-2515-2	SW35 0-6	Total/NA	Solid	8015B NM	29557
890-2515-3	SW36 0-6	Total/NA	Solid	8015B NM	29557
890-2515-4	SW37 0-6	Total/NA	Solid	8015B NM	29557
890-2515-5	BH-106 6	Total/NA	Solid	8015B NM	29557
890-2515-6	BH-108 6	Total/NA	Solid	8015B NM	29557
890-2515-7	BH-114 10	Total/NA	Solid	8015B NM	29557
890-2515-8	BH-115 10	Total/NA	Solid	8015B NM	29557
890-2515-9	BH-116 10	Total/NA	Solid	8015B NM	29557
890-2515-10	BH-117 10	Total/NA	Solid	8015B NM	29557
890-2515-11	BH-118 10	Total/NA	Solid	8015B NM	29557
890-2515-12	BH-119 8	Total/NA	Solid	8015B NM	29557
890-2515-13	BH-120 8	Total/NA	Solid	8015B NM	29557
890-2515-14	BH-121 8	Total/NA	Solid	8015B NM	29557
890-2515-15	BH-122 8	Total/NA	Solid	8015B NM	29557
890-2515-16	BH-123 8	Total/NA	Solid	8015B NM	29557
890-2515-17	BH-124 8	Total/NA	Solid	8015B NM	29557
890-2515-18	BH-125 8	Total/NA	Solid	8015B NM	29557
890-2515-19	BH-126 8	Total/NA	Solid	8015B NM	29557
890-2515-20	BH-127 8	Total/NA	Solid	8015B NM	29557
MB 880-29557/1-A	Method Blank	Total/NA	Solid	8015B NM	29557
LCS 880-29557/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	29557
LCSD 880-29557/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	29557
890-2515-1 MS	SW34 0-6	Total/NA	Solid	8015B NM	29557
890-2515-1 MSD	SW34 0-6	Total/NA	Solid	8015B NM	29557

Prep Batch: 29557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2515-1	SW34 0-6	Total/NA	Solid	8015NM Prep	
890-2515-2	SW35 0-6	Total/NA	Solid	8015NM Prep	
890-2515-3	SW36 0-6	Total/NA	Solid	8015NM Prep	
890-2515-4	SW37 0-6	Total/NA	Solid	8015NM Prep	
890-2515-5	BH-106 6	Total/NA	Solid	8015NM Prep	
890-2515-6	BH-108 6	Total/NA	Solid	8015NM Prep	
890-2515-7	BH-114 10	Total/NA	Solid	8015NM Prep	

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Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

GC Semi VOA (Continued)

Prep Batch: 29557 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2515-8	BH-115 10	Total/NA	Solid	8015NM Prep	
890-2515-9	BH-116 10	Total/NA	Solid	8015NM Prep	
890-2515-10	BH-117 10	Total/NA	Solid	8015NM Prep	
890-2515-11	BH-118 10	Total/NA	Solid	8015NM Prep	
890-2515-12	BH-119 8	Total/NA	Solid	8015NM Prep	
890-2515-13	BH-120 8	Total/NA	Solid	8015NM Prep	
890-2515-14	BH-121 8	Total/NA	Solid	8015NM Prep	
890-2515-15	90-2515-15 BH-122 8		Solid	8015NM Prep	
890-2515-16	BH-123 8	Total/NA	Solid	8015NM Prep	
890-2515-17	BH-124 8	Total/NA	Solid	8015NM Prep	
890-2515-18	BH-125 8	Total/NA	Solid	8015NM Prep	
890-2515-19	BH-126 8	Total/NA	Solid	8015NM Prep	
890-2515-20	BH-127 8	Total/NA	Solid	8015NM Prep	
MB 880-29557/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-29557/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-29557/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2515-1 MS	SW34 0-6	Total/NA	Solid	8015NM Prep	
890-2515-1 MSD	SW34 0-6	Total/NA	Solid	8015NM Prep	

Prep Batch: 29563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2515-21	BH-128 8	Total/NA	Solid	8015NM Prep	
890-2515-22	BH-129 8	Total/NA	Solid	8015NM Prep	
890-2515-23	BH-130 8	Total/NA	Solid	8015NM Prep	
890-2515-24	BH-131 8	Total/NA	Solid	8015NM Prep	
890-2515-25	BH-132 8	Total/NA	Solid	8015NM Prep	
890-2515-26	BH-133 8	Total/NA	Solid	8015NM Prep	
890-2515-27	BH-134 8	Total/NA	Solid	8015NM Prep	
890-2515-28	BH-135 8	Total/NA	Solid	8015NM Prep	
890-2515-29	BH-136 8	Total/NA	Solid	8015NM Prep	
890-2515-30	BH-137 8	Total/NA	Solid	8015NM Prep	
890-2515-31	BH-138 8	Total/NA	Solid	8015NM Prep	
890-2515-32	BH-139 8	Total/NA	Solid	8015NM Prep	
890-2515-33	BH-140 8	Total/NA	Solid	8015NM Prep	
890-2515-34	BH-141 8	Total/NA	Solid	8015NM Prep	
MB 880-29563/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-29563/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-29563/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2515-21 MS	BH-128 8	Total/NA	Solid	8015NM Prep	
890-2515-21 MSD	BH-128 8	Total/NA	Solid	8015NM Prep	

Analysis Batch: 29603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2515-21	BH-128 8	Total/NA	Solid	8015B NM	29563
890-2515-22	BH-129 8	Total/NA	Solid	8015B NM	29563
890-2515-23	BH-130 8	Total/NA	Solid	8015B NM	29563
890-2515-24	BH-131 8	Total/NA	Solid	8015B NM	29563
890-2515-25	BH-132 8	Total/NA	Solid	8015B NM	29563
890-2515-26	BH-133 8	Total/NA	Solid	8015B NM	29563
890-2515-27	BH-134 8	Total/NA	Solid	8015B NM	29563
890-2515-28	BH-135 8	Total/NA	Solid	8015B NM	29563

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC Semi VOA (Continued)

Analysis Batch: 29603 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2515-29	BH-136 8	Total/NA	Solid	8015B NM	29563
890-2515-30	BH-137 8	Total/NA	Solid	8015B NM	29563
890-2515-31	BH-138 8	Total/NA	Solid	8015B NM	29563
890-2515-32	BH-139 8	Total/NA	Solid	8015B NM	29563
890-2515-33	BH-140 8	Total/NA	Solid	8015B NM	29563
890-2515-34	BH-141 8	Total/NA	Solid	8015B NM	29563
MB 880-29563/1-A	Method Blank	Total/NA	Solid	8015B NM	29563
LCS 880-29563/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	29563
LCSD 880-29563/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	29563
890-2515-21 MS	BH-128 8	Total/NA	Solid	8015B NM	29563
890-2515-21 MSD	BH-128 8	Total/NA	Solid	8015B NM	29563

Analysis Batch: 29634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-2515-1	SW34 0-6	Total/NA	Solid	8015 NM	
890-2515-2	SW35 0-6	Total/NA	Solid	8015 NM	
890-2515-3	SW36 0-6	Total/NA	Solid	8015 NM	
890-2515-4	SW37 0-6	Total/NA	Solid	8015 NM	
890-2515-5	BH-106 6	Total/NA	Solid	8015 NM	
890-2515-6	BH-108 6	Total/NA	Solid	8015 NM	
890-2515-7	BH-114 10	Total/NA	Solid	8015 NM	
890-2515-8	BH-115 10	Total/NA	Solid	8015 NM	
890-2515-9	BH-116 10	Total/NA	Solid	8015 NM	
890-2515-10	BH-117 10	Total/NA	Solid	8015 NM	
890-2515-11	BH-118 10	Total/NA	Solid	8015 NM	
890-2515-12	BH-119 8	Total/NA	Solid	8015 NM	
890-2515-13	BH-120 8	Total/NA	Solid	8015 NM	
890-2515-14	BH-121 8	Total/NA	Solid	8015 NM	
890-2515-15	BH-122 8	Total/NA	Solid	8015 NM	
890-2515-16	BH-123 8	Total/NA	Solid	8015 NM	
890-2515-17	BH-124 8	Total/NA	Solid	8015 NM	
890-2515-18	BH-125 8	Total/NA	Solid	8015 NM	
890-2515-19	BH-126 8	Total/NA	Solid	8015 NM	
890-2515-20	BH-127 8	Total/NA	Solid	8015 NM	
890-2515-21	BH-128 8	Total/NA	Solid	8015 NM	
890-2515-22	BH-129 8	Total/NA	Solid	8015 NM	
890-2515-23	BH-130 8	Total/NA	Solid	8015 NM	
890-2515-24	BH-131 8	Total/NA	Solid	8015 NM	
890-2515-25	BH-132 8	Total/NA	Solid	8015 NM	
890-2515-26	BH-133 8	Total/NA	Solid	8015 NM	
890-2515-27	BH-134 8	Total/NA	Solid	8015 NM	
890-2515-28	BH-135 8	Total/NA	Solid	8015 NM	
890-2515-29	BH-136 8	Total/NA	Solid	8015 NM	
890-2515-30	BH-137 8	Total/NA	Solid	8015 NM	
890-2515-31	BH-138 8	Total/NA	Solid	8015 NM	
890-2515-32	BH-139 8	Total/NA	Solid	8015 NM	
890-2515-33	BH-140 8	Total/NA	Solid	8015 NM	
890-2515-34	BH-141 8	Total/NA	Solid	8015 NM	

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-2515-1

SDG: Lea County NM

HPLC/IC

Leach Batch: 29401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2515-21	BH-128 8	Soluble	Solid	DI Leach	
890-2515-22	BH-129 8	Soluble	Solid	DI Leach	
890-2515-23	BH-130 8	Soluble	Solid	DI Leach	
890-2515-24	BH-131 8	Soluble	Solid	DI Leach	
890-2515-25	BH-132 8	Soluble	Solid	DI Leach	
890-2515-26	BH-133 8	Soluble	Solid	DI Leach	
890-2515-27	BH-134 8	Soluble	Solid	DI Leach	
890-2515-28	BH-135 8	Soluble	Solid	DI Leach	
890-2515-29	BH-136 8	Soluble	Solid	DI Leach	
890-2515-30	BH-137 8	Soluble	Solid	DI Leach	
890-2515-31	BH-138 8	Soluble	Solid	DI Leach	
890-2515-32	BH-139 8	Soluble	Solid	DI Leach	
890-2515-33	BH-140 8	Soluble	Solid	DI Leach	
890-2515-34	BH-141 8	Soluble	Solid	DI Leach	
MB 880-29401/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-29401/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-29401/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2515-21 MS	BH-128 8	Soluble	Solid	DI Leach	
890-2515-21 MSD	BH-128 8	Soluble	Solid	DI Leach	
890-2515-31 MS	BH-138 8	Soluble	Solid	DI Leach	
890-2515-31 MSD	BH-138 8	Soluble	Solid	DI Leach	

Leach Batch: 29402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-2515-1	SW34 0-6	Soluble	Solid	DI Leach	
890-2515-2	SW35 0-6	Soluble	Solid	DI Leach	
890-2515-3	SW36 0-6	Soluble	Solid	DI Leach	
890-2515-4	SW37 0-6	Soluble	Solid	DI Leach	
890-2515-5	BH-106 6	Soluble	Solid	DI Leach	
890-2515-6	BH-108 6	Soluble	Solid	DI Leach	
890-2515-7	BH-114 10	Soluble	Solid	DI Leach	
890-2515-8	BH-115 10	Soluble	Solid	DI Leach	
890-2515-9	BH-116 10	Soluble	Solid	DI Leach	
890-2515-10	BH-117 10	Soluble	Solid	DI Leach	
890-2515-11	BH-118 10	Soluble	Solid	DI Leach	
890-2515-12	BH-119 8	Soluble	Solid	DI Leach	
890-2515-13	BH-120 8	Soluble	Solid	DI Leach	
890-2515-14	BH-121 8	Soluble	Solid	DI Leach	
890-2515-15	BH-122 8	Soluble	Solid	DI Leach	
890-2515-16	BH-123 8	Soluble	Solid	DI Leach	
890-2515-17	BH-124 8	Soluble	Solid	DI Leach	
890-2515-18	BH-125 8	Soluble	Solid	DI Leach	
890-2515-19	BH-126 8	Soluble	Solid	DI Leach	
890-2515-20	BH-127 8	Soluble	Solid	DI Leach	
MB 880-29402/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-29402/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-29402/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2515-1 MS	SW34 0-6	Soluble	Solid	DI Leach	
890-2515-1 MSD	SW34 0-6	Soluble	Solid	DI Leach	
890-2515-11 MS	BH-118 10	Soluble	Solid	DI Leach	
890-2515-11 MSD	BH-118 10	Soluble	Solid	DI Leach	

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Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

HPLC/IC

Analysis Batch: 29640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2515-1	SW34 0-6	Soluble	Solid	300.0	29402
890-2515-2	SW35 0-6	Soluble	Solid	300.0	29402
890-2515-3	SW36 0-6	Soluble	Solid	300.0	29402
890-2515-4	SW37 0-6	Soluble	Solid	300.0	29402
890-2515-5	BH-106 6	Soluble	Solid	300.0	29402
890-2515-6	BH-108 6	Soluble	Solid	300.0	29402
890-2515-7	BH-114 10	Soluble	Solid	300.0	29402
890-2515-8	BH-115 10	Soluble	Solid	300.0	29402
890-2515-9	BH-116 10	Soluble	Solid	300.0	29402
0-2515-10 BH-117 10		Soluble	Solid	300.0	29402
890-2515-11	BH-118 10	Soluble	Solid	300.0	29402
890-2515-12	2515-12 BH-119 8 Soluble		Solid	300.0	29402
890-2515-13	BH-120 8	Soluble	Solid	300.0	29402
890-2515-14	BH-121 8	Soluble	Solid	300.0	29402
890-2515-15	BH-122 8	Soluble	Solid	300.0	29402
890-2515-16	BH-123 8	Soluble	Solid	300.0	29402
890-2515-17	BH-124 8	Soluble	Solid	300.0	29402
890-2515-18	BH-125 8	Soluble	Solid	300.0	29402
890-2515-19	BH-126 8	Soluble	Solid	300.0	29402
890-2515-20	BH-127 8	Soluble	Solid	300.0	29402
MB 880-29402/1-A	Method Blank	Soluble	Solid	300.0	29402
LCS 880-29402/2-A	Lab Control Sample	Soluble	Solid	300.0	29402
LCSD 880-29402/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	29402
890-2515-1 MS	SW34 0-6	Soluble	Solid	300.0	29402
890-2515-1 MSD	SW34 0-6	Soluble	Solid	300.0	29402
890-2515-11 MS	BH-118 10	Soluble	Solid	300.0	29402
890-2515-11 MSD	BH-118 10	Soluble	Solid	300.0	29402

Analysis Batch: 29646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2515-21	BH-128 8	Soluble	Solid	300.0	29401
890-2515-22	BH-129 8	Soluble	Solid	300.0	29401
890-2515-23	BH-130 8	Soluble	Solid	300.0	29401
890-2515-24	BH-131 8	Soluble	Solid	300.0	29401
890-2515-25	BH-132 8	Soluble	Solid	300.0	29401
890-2515-26	BH-133 8	Soluble	Solid	300.0	29401
890-2515-27	BH-134 8	Soluble	Solid	300.0	29401
890-2515-28	BH-135 8	Soluble	Solid	300.0	29401
890-2515-29	BH-136 8	Soluble	Solid	300.0	29401
890-2515-30	BH-137 8	Soluble	Solid	300.0	29401
890-2515-31	BH-138 8	Soluble	Solid	300.0	29401
890-2515-32	BH-139 8	Soluble	Solid	300.0	29401
890-2515-33	BH-140 8	Soluble	Solid	300.0	29401
890-2515-34	BH-141 8	Soluble	Solid	300.0	29401
MB 880-29401/1-A	Method Blank	Soluble	Solid	300.0	29401
LCS 880-29401/2-A	Lab Control Sample	Soluble	Solid	300.0	29401
LCSD 880-29401/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	29401
890-2515-21 MS	BH-128 8	Soluble	Solid	300.0	29401
890-2515-21 MSD	BH-128 8	Soluble	Solid	300.0	29401
890-2515-31 MS	BH-138 8	Soluble	Solid	300.0	29401
890-2515-31 MSD	BH-138 8	Soluble	Solid	300.0	29401

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW34 0-6

Date Received: 07/08/22 16:08

Lab Sample ID: 890-2515-1 Date Collected: 07/06/22 00:00

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	29722	07/14/22 09:52	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29790	07/15/22 12:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	29557	07/12/22 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29499	07/12/22 20:46	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		1			29640	07/14/22 03:51	CH	XEN MID

Client Sample ID: SW35 0-6 Lab Sample ID: 890-2515-2

Date Received: 07/08/22 16:08

Date Collected: 07/06/22 00:00 Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	29722	07/14/22 09:52	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29790	07/15/22 13:17	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29557	07/12/22 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29499	07/12/22 21:50	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		1			29640	07/14/22 04:18	CH	XEN MID

Client Sample ID: SW36 0-6 Lab Sample ID: 890-2515-3 Date Collected: 07/06/22 00:00 **Matrix: Solid**

Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	29722	07/14/22 09:52	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29790	07/15/22 17:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29557	07/12/22 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29499	07/12/22 22:11	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		1			29640	07/14/22 04:27	CH	XEN MID

Client Sample ID: SW37 0-6 Lab Sample ID: 890-2515-4

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	29722	07/14/22 09:52	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29790	07/15/22 16:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID

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Matrix: Solid

SDG: Lea County NM

Project/Site: Kaiser SWD

Client: Tetra Tech, Inc.

Client Sample ID: SW37 0-6

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Lab Sample ID: 890-2515-4

Matrix: Solid

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	29557	07/12/22 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29499	07/12/22 22:33	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		1			29640	07/14/22 04:37	CH	XEN MID

Client Sample ID: BH-106 6 Lab Sample ID: 890-2515-5 Date Collected: 07/06/22 00:00

Date Received: 07/08/22 16:08

Batch Batch Dil Initial Final Batch Prepared Method Amount Amount Number **Prep Type** Type Run Factor or Analyzed Analyst Lab Prep Total/NA 5035 5.05 g 5 mL 29722 07/14/22 09:52 EL XEN MID Total/NA Analysis 8021B 5 mL 5 mL 29790 07/15/22 18:18 MR XEN MID 1 Total/NA Analysis Total BTEX 1 29793 07/15/22 08:13 AJ XEN MID Total/NA 8015 NM 29634 07/13/22 09:51 SM XEN MID Analysis Total/NA Prep 8015NM Prep 10.01 g 10 mL 29557 07/12/22 14:24 DM XEN MID Total/NA 8015B NM 29499 07/12/22 22:54 SM XEN MID Analysis 1 Soluble Leach DI Leach 5.05 g 50 mL 29402 07/11/22 09:13 KS XEN MID Soluble Analysis 300.0 1 29640 07/14/22 04:46 СН XEN MID

Client Sample ID: BH-108 6 Lab Sample ID: 890-2515-6

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 5.04 g 5 mL 29722 07/14/22 09:52 EL XEN MID Total/NA 8021B 5 mL 5 mL 29790 07/15/22 18:38 MR XEN MID Analysis 1 XEN MID Total/NA Analysis Total BTEX 1 29793 07/15/22 08:13 AJ Total/NA Analysis 8015 NM 29634 07/13/22 09:51 SM XEN MID 1 Total/NA Prep 8015NM Prep 10.00 g 10 mL 29557 07/12/22 14:24 DM XEN MID Total/NA Analysis 8015B NM 29499 07/12/22 23:16 SM XEN MID 1 Soluble Leach DI Leach 4.98 g 50 mL 29402 07/11/22 09:13 KS XEN MID Soluble Analysis 300.0 29640 07/14/22 08:00 СН XEN MID 1

Lab Sample ID: 890-2515-7 Client Sample ID: BH-114 10

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	29722	07/14/22 09:52	EL	XEN MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	29790	07/15/22 19:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g	10 mL	29557 29499	07/12/22 14:24 07/13/22 04:16	DM SM	XEN MID XEN MID

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Matrix: Solid

Client: Tetra Tech, Inc.
Project/Site: Kaiser SWD

Job ID: 890-2515-1 SDG: Lea County NM

ob Comple ID: 200 2545 7

Client Sample ID: BH-114 10

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08 Lab Sample ID: 890-2515-7

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		1			29640	07/14/22 08:09	CH	XEN MID

Client Sample ID: BH-115 10 Lab Sample ID: 890-2515-8

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08 Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	29722	07/14/22 09:52	EL	XEN MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	29790	07/15/22 19:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29557	07/12/22 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29499	07/13/22 04:38	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		1			29640	07/14/22 08:18	CH	XEN MID

Client Sample ID: BH-116 10 Lab Sample ID: 890-2515-9

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08 Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	29722	07/14/22 09:52	EL	XEN MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	29790	07/15/22 20:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29557	07/12/22 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29499	07/13/22 03:54	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		1			29640	07/14/22 08:28	CH	XEN MID

Client Sample ID: BH-117 10 Lab Sample ID: 890-2515-10

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	29722	07/14/22 09:52	EL	XEN MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	29790	07/15/22 20:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	29557	07/12/22 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29499	07/13/22 02:50	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		1			29640	07/14/22 08:37	CH	XEN MID

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Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-118 10

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08 Lab Sample ID: 890-2515-11

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	29987	07/18/22 15:14	MR	XEN MID
Total/NA	Analysis	8021B		50			30016	07/19/22 16:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	29557	07/12/22 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		5			29499	07/13/22 03:12	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		1			29640	07/14/22 08:46	CH	XEN MID

Client Sample ID: BH-119 8 Lab Sample ID: 890-2515-12 Date Collected: 07/06/22 00:00 Matrix: Solid

Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	29722	07/14/22 09:52	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29790	07/15/22 18:59	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29557	07/12/22 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		5			29499	07/13/22 03:33	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		5			29640	07/14/22 09:14	CH	XEN MID

Client Sample ID: BH-120 8 Lab Sample ID: 890-2515-13 Date Collected: 07/06/22 00:00

Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	29723	07/14/22 09:57	EL	XEN MID
Total/NA	Analysis	8021B		1			29700	07/15/22 01:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	29557	07/12/22 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29499	07/12/22 23:37	SM	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		5			29640	07/14/22 09:23	CH	XEN MID

Client Sample ID: BH-121 8 Lab Sample ID: 890-2515-14 Date Collected: 07/06/22 00:00 **Matrix: Solid**

Date Received: 07/08/22 16:08

Г										
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	29723	07/14/22 09:57	EL	XEN MID
Total/NA	Analysis	8021B		1			29700	07/15/22 02:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID

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Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-121 8

Date Collected: 07/06/22 00:00
Date Received: 07/08/22 16:08

Lab Sample ID: 890-2515-14

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	29557	07/12/22 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29499	07/12/22 23:59	SM	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		20			29640	07/14/22 18:25	CH	XEN MID

Client Sample ID: BH-122 8 Lab Sample ID: 890-2515-15

Date Collected: 07/06/22 00:00
Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	29723	07/14/22 09:57	EL	XEN MID
Total/NA	Analysis	8021B		1			29700	07/15/22 02:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29557	07/12/22 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29499	07/13/22 00:20	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		5			29640	07/14/22 18:34	CH	XEN MID

Client Sample ID: BH-123 8

Date Collected: 07/06/22 00:00

Lab Sample ID: 890-2515-16

Matrix: Solid

Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	29723	07/14/22 09:57	EL	XEN MID
Total/NA	Analysis	8021B		1			29700	07/15/22 02:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29557	07/12/22 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29499	07/13/22 00:41	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		1			29640	07/14/22 18:43	CH	XEN MID

Client Sample ID: BH-124 8 Lab Sample ID: 890-2515-17

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	29723	07/14/22 09:57	EL	XEN MID
Total/NA	Analysis	8021B		1			29700	07/15/22 03:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g	10 mL	29557 29499	07/12/22 14:24 07/13/22 01:24	DM SM	XEN MID XEN MID

Eurofins Carlsbad

Matrix: Solid

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Job ID: 890-2515-1 SDG: Lea County NM

Client Sample ID: BH-124 8

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Lab Sample ID: 890-2515-17 Date Collected: 07/06/22 00:00 Matrix: Solid

Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		1			29640	07/14/22 18:52	CH	XEN MID

Client Sample ID: BH-125 8 Lab Sample ID: 890-2515-18

Date Collected: 07/06/22 00:00 **Matrix: Solid**

Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	29723	07/14/22 09:57	EL	XEN MID
Total/NA	Analysis	8021B		1			29700	07/15/22 03:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	29557	07/12/22 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29499	07/13/22 01:46	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		5			29640	07/14/22 19:02	CH	XEN MID

Client Sample ID: BH-126 8 Lab Sample ID: 890-2515-19

Date Collected: 07/07/22 00:00 **Matrix: Solid**

Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	29723	07/14/22 09:57	EL	XEN MIC
Total/NA	Analysis	8021B		1			29700	07/15/22 04:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29557	07/12/22 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29499	07/13/22 02:07	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		20			29640	07/14/22 19:11	CH	XEN MID

Client Sample ID: BH-127 8 Lab Sample ID: 890-2515-20

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	29723	07/14/22 09:57	EL	XEN MID
Total/NA	Analysis	8021B		1			29700	07/15/22 04:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29557	07/12/22 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29499	07/13/22 02:29	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		5			29640	07/14/22 19:20	CH	XEN MID

Eurofins Carlsbad

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-128 8

Lab Sample ID: 890-2515-21 Date Collected: 07/07/22 00:00

Matrix: Solid

Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	29723	07/14/22 09:57	EL	XEN MI
Total/NA	Analysis	8021B		1			29700	07/15/22 05:05	MR	XEN MI
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MI
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MI
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	29563	07/12/22 15:30	DM	XEN MI
Total/NA	Analysis	8015B NM		1			29603	07/13/22 11:31	AJ	XEN MI
Soluble	Leach	DI Leach			4.96 g	50 mL	29401	07/11/22 09:10	KS	XEN MI
Soluble	Analysis	300.0		1			29646	07/14/22 07:28	CH	XEN MI

Client Sample ID: BH-129 8 Lab Sample ID: 890-2515-22

Date Collected: 07/07/22 00:00 Matrix: Solid

Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	29723	07/14/22 09:57	EL	XEN MID
Total/NA	Analysis	8021B		1			29700	07/15/22 05:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29563	07/12/22 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29603	07/13/22 12:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	29401	07/11/22 09:10	KS	XEN MIC
Soluble	Analysis	300.0		1			29646	07/14/22 07:52	CH	XEN MID

Client Sample ID: BH-130 8 Lab Sample ID: 890-2515-23 Date Collected: 07/07/22 00:00 **Matrix: Solid**

Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	29723	07/14/22 09:57	EL	XEN MID
Total/NA	Analysis	8021B		1			29700	07/15/22 07:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29563	07/12/22 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29603	07/13/22 12:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	29401	07/11/22 09:10	KS	XEN MIC
Soluble	Analysis	300.0		1			29646	07/14/22 08:00	CH	XEN MID

Client Sample ID: BH-131 8 Lab Sample ID: 890-2515-24 Date Collected: 07/07/22 00:00 **Matrix: Solid**

Date Received: 07/08/22 16:08

Released to Imaging: 9/1/2023 2:55:43 PM

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	29723	07/14/22 09:57	EL	XEN MID
Total/NA	Analysis	8021B		1			29700	07/15/22 07:45	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID

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Job ID: 890-2515-1 SDG: Lea County NM

Client Sample ID: BH-131 8

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Lab Sample ID: 890-2515-24

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	29563	07/12/22 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29603	07/13/22 13:20	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29401	07/11/22 09:10	KS	XEN MID
Soluble	Analysis	300.0		1			29646	07/14/22 08:07	CH	XEN MID

Lab Sample ID: 890-2515-25

Matrix: Solid

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Total/NA

Soluble

Soluble

Analysis

Analysis

Leach

Released to Imaging: 9/1/2023 2:55:43 PM

8015B NM

DI Leach

300.0

Client Sample ID: BH-132 8

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	29723	07/14/22 09:57	EL	XEN MID
Total/NA	Analysis	8021B		1			29700	07/15/22 08:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29563	07/12/22 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29603	07/13/22 13:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	29401	07/11/22 09:10	KS	XEN MID
Soluble	Analysis	300.0		1			29646	07/14/22 08:15	CH	XEN MID

Client Sample ID: BH-133 8 Lab Sample ID: 890-2515-26

Date Collected: 07/06/22 00:00 **Matrix: Solid** Date Received: 07/08/22 16:08

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Type Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 4.97 g 5 mL 29723 07/14/22 09:57 EL XEN MID Total/NA 8021B 29700 07/15/22 08:49 MR XEN MID Analysis 1 Total/NA Total BTEX Analysis 1 29793 07/15/22 08:13 AJ XEN MID Total/NA Analysis 8015 NM 29634 07/13/22 09:51 SM XEN MID 1 29563 07/12/22 15:30 Total/NA Prep 8015NM Prep 10.00 g 10 mL DM XEN MID

1

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Lab Sample ID: 890-2515-27 Client Sample ID: BH-134 8

5.05 g

29603

29401

29646

50 mL

07/13/22 14:03

07/11/22 09:10

07/14/22 08:39

A.I

KS

СН

Date Collected: 07/07/22 00:00 **Matrix: Solid** Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	29723	07/14/22 09:57	EL	XEN MID
Total/NA	Analysis	8021B		1			29700	07/15/22 09:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29563	07/12/22 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29603	07/13/22 14:24	AJ	XEN MID

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XEN MID

XEN MID

XEN MID

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-134 8

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08 Lab Sample ID: 890-2515-27

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	29401	07/11/22 09:10	KS	XEN MID
Soluble	Analysis	300.0		1			29646	07/14/22 08:47	CH	XEN MID

Client Sample ID: BH-135 8 Lab Sample ID: 890-2515-28

Date Collected: 07/07/22 00:00 **Matrix: Solid**

Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	29723	07/14/22 09:57	EL	XEN MID
Total/NA	Analysis	8021B		1			29700	07/15/22 09:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29563	07/12/22 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29603	07/13/22 14:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	29401	07/11/22 09:10	KS	XEN MID
Soluble	Analysis	300.0		1			29646	07/14/22 10:01	CH	XEN MID

Client Sample ID: BH-136 8 Lab Sample ID: 890-2515-29

Date Collected: 07/07/22 00:00 **Matrix: Solid** Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	29723	07/14/22 09:57	EL	XEN MID
Total/NA	Analysis	8021B		1			29700	07/15/22 10:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29563	07/12/22 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29603	07/13/22 15:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	29401	07/11/22 09:10	KS	XEN MID
Soluble	Analysis	300.0		1			29646	07/14/22 10:09	CH	XEN MID

Client Sample ID: BH-137 8 Lab Sample ID: 890-2515-30

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	29723	07/14/22 09:57	EL	XEN MID
Total/NA	Analysis	8021B		1			29700	07/15/22 10:34	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29563	07/12/22 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29603	07/13/22 15:28	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29401	07/11/22 09:10	KS	XEN MID
Soluble	Analysis	300.0		1			29646	07/14/22 10:17	CH	XEN MID

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Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-138 8

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08 Lab Sample ID: 890-2515-31

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	29723	07/14/22 09:57	EL	XEN MID
Total/NA	Analysis	8021B		1			29700	07/15/22 11:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	29563	07/12/22 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29603	07/13/22 16:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	29401	07/11/22 09:10	KS	XEN MID
Soluble	Analysis	300.0		1			29646	07/14/22 10:25	CH	XEN MID

Client Sample ID: BH-139 8 Lab Sample ID: 890-2515-32 Date Collected: 07/07/22 00:00

Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	29723	07/14/22 09:57	EL	XEN MID
Total/NA	Analysis	8021B		1			29700	07/15/22 11:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29563	07/12/22 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29603	07/13/22 16:32	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29401	07/11/22 09:10	KS	XEN MID
Soluble	Analysis	300.0		5			29646	07/14/22 15:23	CH	XEN MID

Client Sample ID: BH-140 8 Lab Sample ID: 890-2515-33 Date Collected: 07/06/22 00:00 **Matrix: Solid**

Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	29739	07/14/22 10:08	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29790	07/15/22 23:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	29563	07/12/22 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29603	07/13/22 16:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	29401	07/11/22 09:10	KS	XEN MID
Soluble	Analysis	300.0		1			29646	07/14/22 15:31	CH	XEN MID

Client Sample ID: BH-141 8 Lab Sample ID: 890-2515-34 Date Collected: 07/07/22 00:00 **Matrix: Solid**

Date Received: 07/08/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	29739	07/14/22 10:08	EL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29790	07/16/22 00:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID

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Released to Imaging: 9/1/2023 2:55:43 PM

Lab Chronicle

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-141 8

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08 Lab Sample ID: 890-2515-34

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			29634	07/13/22 09:51	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	29563	07/12/22 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29603	07/13/22 17:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	29401	07/11/22 09:10	KS	XEN MID
Soluble	Analysis	300.0		5			29646	07/14/22 15:55	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	P	Program	Identification Number	Expiration Date
Texas	N	NELAP	T104704400-22-24	06-30-23
The following analytes the agency does not of	' '	out the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for whic
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

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Method Summary

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

890-2515-30

890-2515-31

890-2515-32

890-2515-33

890-2515-34

BH-137 8

BH-138 8

BH-139 8

BH-140 8

BH-141 8

Job ID: 890-2515-1 SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2515-1	SW34 0-6	Solid	07/06/22 00:00	07/08/22 16:08	0 - 6
890-2515-2	SW35 0-6	Solid	07/06/22 00:00	07/08/22 16:08	0 - 6
890-2515-3	SW36 0-6	Solid	07/06/22 00:00	07/08/22 16:08	0 - 6
890-2515-4	SW37 0-6	Solid	07/06/22 00:00	07/08/22 16:08	0 - 6
890-2515-5	BH-106 6	Solid	07/06/22 00:00	07/08/22 16:08	6
890-2515-6	BH-108 6	Solid	07/06/22 00:00	07/08/22 16:08	6
890-2515-7	BH-114 10	Solid	07/06/22 00:00	07/08/22 16:08	10
890-2515-8	BH-115 10	Solid	07/06/22 00:00	07/08/22 16:08	10
890-2515-9	BH-116 10	Solid	07/06/22 00:00	07/08/22 16:08	10
890-2515-10	BH-117 10	Solid	07/06/22 00:00	07/08/22 16:08	10
890-2515-11	BH-118 10	Solid	07/06/22 00:00	07/08/22 16:08	10
890-2515-12	BH-119 8	Solid	07/06/22 00:00	07/08/22 16:08	8
890-2515-13	BH-120 8	Solid	07/06/22 00:00	07/08/22 16:08	8
890-2515-14	BH-121 8	Solid	07/06/22 00:00	07/08/22 16:08	8
890-2515-15	BH-122 8	Solid	07/06/22 00:00	07/08/22 16:08	8
890-2515-16	BH-123 8	Solid	07/06/22 00:00	07/08/22 16:08	8
890-2515-17	BH-124 8	Solid	07/06/22 00:00	07/08/22 16:08	8
890-2515-18	BH-125 8	Solid	07/06/22 00:00	07/08/22 16:08	8
890-2515-19	BH-126 8	Solid	07/07/22 00:00	07/08/22 16:08	8
890-2515-20	BH-127 8	Solid	07/07/22 00:00	07/08/22 16:08	8
890-2515-21	BH-128 8	Solid	07/07/22 00:00	07/08/22 16:08	8
890-2515-22	BH-129 8	Solid	07/07/22 00:00	07/08/22 16:08	8
890-2515-23	BH-130 8	Solid	07/07/22 00:00	07/08/22 16:08	8
890-2515-24	BH-131 8	Solid	07/07/22 00:00	07/08/22 16:08	8
890-2515-25	BH-132 8	Solid	07/06/22 00:00	07/08/22 16:08	8
890-2515-26	BH-133 8	Solid	07/06/22 00:00	07/08/22 16:08	8
890-2515-27	BH-134 8	Solid	07/07/22 00:00	07/08/22 16:08	8
890-2515-28	BH-135 8	Solid	07/07/22 00:00	07/08/22 16:08	8
890-2515-29	BH-136 8	Solid	07/07/22 00:00	07/08/22 16:08	8

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roject Location	Lea County, NM	Project a			MD-02230														=			
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Project Location (county state)	Lea County, NM	Project #	CHEMICAL I	2120			awis a	-		****														ist]			
invoice to	Permian Water Solutions - Dusty Mointurff												18301		141	위								attriced list			
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Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2515-1 SDG Number: Lea County NM

List Source: Eurofins Carlsbad

Login Number: 2515 List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Euronns Carisbau

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Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2515-1 SDG Number: Lea County NM

List Source: Eurofins Midland

List Source: Eurofins Midland
List Creation: 07/12/22 11:11 AM

List Number: 2 Creator: Rodriguez, Leticia

Login Number: 2515

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2553-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Kaiser SWD

For:

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Brittany Long

RAMER

Authorized for release by: 7/20/2022 11:48:05 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-2553-1 SDG: Lea County NM

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Definitions/Glossary

Job ID: 890-2553-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Qualifiers

GC VOA

Qualifier **Qualifier Description** F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

MS and/or MSD recovery exceeds control limits. U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DFR Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE) MCL

EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

Case Narrative

Client: Tetra Tech, Inc.

Job ID: 890-2553-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Job ID: 890-2553-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2553-1

Receipt

The samples were received on 7/12/2022 4:57 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 36.2°C

GC VOA

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-29774 and analytical batch 880-29893 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-29947 and analytical batch 880-30015 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-29754 and analytical batch 880-29864 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Lab Sample ID: 890-2553-1

Client: Tetra Tech, Inc.

Job ID: 890-2553-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-142 5'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		07/14/22 16:53	07/18/22 12:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 12:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 12:27	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/14/22 16:53	07/18/22 12:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 12:27	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/14/22 16:53	07/18/22 12:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				07/14/22 16:53	07/18/22 12:27	1
1,4-Difluorobenzene (Surr)	107		70 - 130				07/14/22 16:53	07/18/22 12:27	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			07/19/22 09:14	1
Total TPH	<50.0		50.0		mg/Kg	_		07/18/22 09:27	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 11:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 11:12	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 11:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				07/15/22 08:42	07/15/22 11:12	1
o-Terphenyl	88		70 - 130				07/15/22 08:42	07/15/22 11:12	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Method: 300.0 - Anions, Ion Chro Analyte	•	Soluble Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH-143 5'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 12:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 12:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 12:48	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/14/22 16:53	07/18/22 12:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 12:48	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/14/22 16:53	07/18/22 12:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130				07/14/22 16:53	07/18/22 12:48	1

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Lab Sample ID: 890-2553-2

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Matrix: Solid

Lab Sample ID: 890-2553-2

Lab Sample ID: 890-2553-3

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2553-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-143 5'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 5'

Method: 8021B - Volatile Or	ganic Compounds	(GC) (Continued)
Michigal COLID Volume Of	gaine compounds	(GG) (GG) (GG)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	98	70 - 130	07/14/22 16:53	07/18/22 12:48	1

Markle and a	Takel	DTEV	T-4-1	DTEV	0-11-4
wetnoa:	iotai	BIEX -	rotai	BIEX	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399		mg/Kg	 	_	07/19/22 09:14	1

l .		
Mothod: 904E NM Dia	sel Range Organics (DRO) (GC)	١
INICITIOU. OUTS ININI - DIC	sel Kalige Organics (DKO) (GC)	,

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	l Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			07/18/22 09:27	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		07/15/22 08:42	07/15/22 12:16	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		07/15/22 08:42	07/15/22 12:16	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/15/22 08:42	07/15/22 12:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	d Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	07/15/22 08	3:42 07/15/22 12:16	1
o-Terphenyl	104		70 - 130	07/15/22 08	3:42 07/15/22 12:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	984	4.98	mg/Kg			07/16/22 21:42	1

Client Sample ID: BH-144 5'

Date Collected: 07/12/22 00:00

Date Received: 07/12/22 16:57

Sample Depth: 5'

Method: 8021B - Volatile Organic Co	mnolinas ((=(.)

wethout ouz 16 - volatile Orga	nic Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/14/22 16:53	07/18/22 13:09	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/14/22 16:53	07/18/22 13:09	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/22 16:53	07/18/22 13:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/22 16:53	07/18/22 13:09	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/22 16:53	07/18/22 13:09	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/14/22 16:53	07/18/22 13:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				07/14/22 16:53	07/18/22 13:09	1
1,4-Difluorobenzene (Surr)	96		70 - 130				07/14/22 16:53	07/18/22 13:09	1

Mothod:	Total RTF	Y - Total R	TFX Calculatio	n

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/19/22 09:14	1

Analyte	•	•	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total TPH			226		50.0		mg/Kg			07/18/22 09:27	1

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Lab Sample ID: 890-2553-3

Lab Sample ID: 890-2553-4

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2553-1
Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-144 5'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 14:02	1
(GRO)-C6-C10 Diesel Range Organics (Over	226		50.0		mg/Kg		07/15/22 08:42	07/15/22 14:02	1
C10-C28)	220		00.0		9/.19		0.7.10722 00.12	01,10,22 11102	·
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 14:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				07/15/22 08:42	07/15/22 14:02	1
o-Terphenyl	86		70 - 130				07/15/22 08:42	07/15/22 14:02	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH-145 5'

Date Collected: 07/12/22 00:00

Date Received: 07/12/22 16:57

Sample Depth: 5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/14/22 16:53	07/18/22 13:30	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/14/22 16:53	07/18/22 13:30	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/14/22 16:53	07/18/22 13:30	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/14/22 16:53	07/18/22 13:30	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/14/22 16:53	07/18/22 13:30	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/14/22 16:53	07/18/22 13:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				07/14/22 16:53	07/18/22 13:30	1
1,4-Difluorobenzene (Surr)	108		70 - 130				07/14/22 16:53	07/18/22 13:30	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			07/19/22 09:14	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/18/22 09:27	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 12:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 12:37	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 12:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				07/15/22 08:42	07/15/22 12:37	1

Job ID: 890-2553-1 SDG: Lea County NM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Client Sample ID: BH-145 5' Lab Sample ID: 890-2553-4 Date Collected: 07/12/22 00:00 Matrix: Solid

Date Received: 07/12/22 16:57 Sample Depth: 5'

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	903		5.00		mg/Kg			07/16/22 22:01	1

Client Sample ID: BH-146 5' Lab Sample ID: 890-2553-5

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 13:51	
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 13:51	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 13:51	
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/14/22 16:53	07/18/22 13:51	
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 13:51	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/14/22 16:53	07/18/22 13:51	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	112		70 - 130				07/14/22 16:53	07/18/22 13:51	
1,4-Difluorobenzene (Surr)	111		70 - 130				07/14/22 16:53	07/18/22 13:51	
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
: Method: 8015 NM - Diesel Range	Organics (DR)	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0		mg/Kg			07/18/22 09:27	
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 12:58	•
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 12:58	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 12:58	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	77		70 - 130				07/15/22 08:42	07/15/22 12:58	
o-Terphenyl	82		70 - 130				07/15/22 08:42	07/15/22 12:58	:
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Method: 300.0 - Anions, Ion Chro Analyte		Soluble Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Job ID: 890-2553-1 SDG: Lea County NM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Client Sample ID: BH-147 6' Lab Sample ID: 890-2553-6 Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 6'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199		mg/Kg		07/14/22 16:53	07/18/22 14:11	
Toluene	< 0.00199	U	0.00199		mg/Kg		07/14/22 16:53	07/18/22 14:11	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		07/14/22 16:53	07/18/22 14:11	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/22 16:53	07/18/22 14:11	
o-Xylene	< 0.00199	U	0.00199		mg/Kg		07/14/22 16:53	07/18/22 14:11	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/22 16:53	07/18/22 14:11	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	106		70 - 130				07/14/22 16:53	07/18/22 14:11	
1,4-Difluorobenzene (Surr)	110		70 - 130				07/14/22 16:53	07/18/22 14:11	
Method: Total BTEX - Total BTE	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/19/22 09:14	
Analyte	Result	O) (GC) Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	
Method: 8015 NM - Diesel Rang Analyte Total TPH	Result 537	Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 07/18/22 09:27	
Analyte Total TPH Method: 8015B NM - Diesel Rar	Result 537	Qualifier RO) (GC)	50.0		mg/Kg	<u> </u>		07/18/22 09:27	
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte	Result 537 nge Organics (Di Result	Qualifier RO) (GC) Qualifier	50.0	MDL	mg/Kg Unit	<u>D</u>	Prepared	07/18/22 09:27 Analyzed	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics	Result 537	Qualifier RO) (GC) Qualifier	50.0		mg/Kg	<u> </u>		07/18/22 09:27	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 537 nge Organics (Di Result	Qualifier RO) (GC) Qualifier	50.0		mg/Kg Unit	<u> </u>	Prepared	07/18/22 09:27 Analyzed	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rai Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	nge Organics (Digestrated Result	Qualifier RO) (GC) Qualifier	50.0 RL 50.0		mg/Kg Unit mg/Kg	<u> </u>	Prepared 07/15/22 08:42	07/18/22 09:27 Analyzed 07/15/22 15:52	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier RO) (GC) Qualifier	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 07/15/22 08:42 07/15/22 08:42	07/18/22 09:27 Analyzed 07/15/22 15:52 07/15/22 15:52	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rai Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 07/15/22 08:42 07/15/22 08:42 07/15/22 08:42	07/18/22 09:27 Analyzed 07/15/22 15:52 07/15/22 15:52	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rai Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 07/15/22 08:42 07/15/22 08:42 07/15/22 08:42 Prepared	07/18/22 09:27 Analyzed 07/15/22 15:52 07/15/22 15:52 Analyzed	Dil Fa
Analyte	Result	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 07/15/22 08:42 07/15/22 08:42 07/15/22 08:42 Prepared 07/15/22 08:42	07/18/22 09:27 Analyzed 07/15/22 15:52 07/15/22 15:52 Analyzed 07/15/22 15:52	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rai Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg	<u> </u>	Prepared 07/15/22 08:42 07/15/22 08:42 07/15/22 08:42 Prepared 07/15/22 08:42	07/18/22 09:27 Analyzed 07/15/22 15:52 07/15/22 15:52 Analyzed 07/15/22 15:52	Dil Fac

Client Sample ID: BH-148 6' Lab Sample ID: 890-2553-7 Matrix: Solid

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 6'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/14/22 16:53	07/18/22 14:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/14/22 16:53	07/18/22 14:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/22 16:53	07/18/22 14:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/22 16:53	07/18/22 14:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/22 16:53	07/18/22 14:32	1
Xylenes, Total	< 0.00402	U	0.00402		mg/Kg		07/14/22 16:53	07/18/22 14:32	1

Job ID: 890-2553-1

Lab Sample ID: 890-2553-7

Lab Sample ID: 890-2553-8

Matrix: Solid

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-148 6'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 6'

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112	70 - 130	07/14/22 16:53	07/18/22 14:32	1
1,4-Difluorobenzene (Surr)	96	70 - 130	07/14/22 16:53	07/18/22 14:32	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL I	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	1	mg/Kg			07/19/22 09:14	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	190		49.9		mg/Kg			07/18/22 09:27	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

<49.9	U	49.9		 		
			mg/Kg	07/15/22 08:42	07/15/22 14:24	1
138		49.9	mg/Kg	07/15/22 08:42	07/15/22 14:24	1
52.3		49.9	mg/Kg	07/15/22 08:42	07/15/22 14:24	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99	70 - 130	07/15/22 08:42	07/15/22 14:24	1
o-Terphenyl	101	70 - 130	07/15/22 08:42	07/15/22 14:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	6 69	4 97	ma/Ka			07/16/22 22:47	1			

Client Sample ID: BH-149 6'

Date Collected: 07/12/22 00:00

Date Received: 07/12/22 16:57

Sample Depth: 6'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/14/22 16:53	07/18/22 14:53	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/14/22 16:53	07/18/22 14:53	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/14/22 16:53	07/18/22 14:53	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/14/22 16:53	07/18/22 14:53	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/14/22 16:53	07/18/22 14:53	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/14/22 16:53	07/18/22 14:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				07/14/22 16:53	07/18/22 14:53	1
1,4-Difluorobenzene (Surr)	110		70 - 130				07/14/22 16:53	07/18/22 14:53	1
- Method: Total BTEX - Total B1	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			07/19/22 09:14	

Lab Sample ID: 890-2553-8

Lab Sample ID: 890-2553-9

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-2553-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-149 6'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 6'

Method: 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	64.6		49.9		mg/Kg			07/18/22 09:27	1	

_ IOIAI IPH	04.0		43.3		mg/rtg			01/10/22 09.21	'
– Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/15/22 08:42	07/15/22 17:38	1
Diesel Range Organics (Over C10-C28)	64.6		49.9		mg/Kg		07/15/22 08:42	07/15/22 17:38	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/15/22 08:42	07/15/22 17:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				07/15/22 08:42	07/15/22 17:38	1
o-Terphenyl	91		70 - 130				07/15/22 08:42	07/15/22 17:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	7.07		4.98		mg/Kg			07/16/22 22:56	1

Client Sample ID: BH-150 6'

Date Collected: 07/12/22 00:00

Date Received: 07/12/22 16:57

Sample Depth: 6'

Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total		U U U	0.00200 0.00200 0.00200 0.00399 0.00200 0.00399		mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	— – 	07/14/22 16:53 07/14/22 16:53 07/14/22 16:53 07/14/22 16:53 07/14/22 16:53 07/14/22 16:53	07/18/22 15:14 07/18/22 15:14 07/18/22 15:14 07/18/22 15:14 07/18/22 15:14 07/18/22 15:14	1 1 1 1 1
Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total	<0.00200 <0.00399 <0.00200 <0.00399	U U U	0.00200 0.00399 0.00200 0.00399		mg/Kg mg/Kg mg/Kg		07/14/22 16:53 07/14/22 16:53 07/14/22 16:53	07/18/22 15:14 07/18/22 15:14 07/18/22 15:14	1 1 1 1
m-Xylene & p-Xylene o-Xylene Xylenes, Total	<0.00399 <0.00200 <0.00399 %Recovery	U U U	0.00399 0.00200 0.00399		mg/Kg mg/Kg		07/14/22 16:53 07/14/22 16:53	07/18/22 15:14 07/18/22 15:14	1 1 1
o-Xylene Xylenes, Total	<0.00200 <0.00399 %Recovery	U U	0.00200 0.00399		mg/Kg		07/14/22 16:53	07/18/22 15:14	1 1 1
Xylenes, Total	<0.00399 %Recovery	U	0.00399						1
	%Recovery				mg/Kg		07/14/22 16:53	07/18/22 15:14	1
Surrogate		Qualifier	Limite						
			LIIIIII				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				07/14/22 16:53	07/18/22 15:14	1
1,4-Difluorobenzene (Surr)	108		70 - 130				07/14/22 16:53	07/18/22 15:14	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/19/22 09:14	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	83.6		50.0		mg/Kg			07/18/22 09:27	1
Method: 8015B NM - Diesel Rang	e Organics (DI	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 17:17	1
Diesel Range Organics (Over	83.6		50.0		mg/Kg		07/15/22 08:42	07/15/22 17:17	1

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07/15/22 17:17

50.0

mg/Kg

07/15/22 08:42

<50.0 U

Oll Range Organics (Over C28-C36)

C10-C28)

Client: Tetra Tech, Inc.
Project/Site: Kaiser SWD

Job ID: 890-2553-1 SDG: Lea County NM

Lab Sample ID: 890-2553-10

Client Sample ID: BH-150 6'

Date Collected: 07/12/22 00:00
Date Received: 07/12/22 16:57

Lab Sample ID: 890-2553-9 Matrix: Solid

Matrix: Solid

Sample Depth: 6'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	07/15/22 08:42	07/15/22 17:17	1
o-Terphenyl	102		70 - 130	07/15/22 08:42	07/15/22 17:17	1

 Method: 300.0 - Anions, Ion Chromatography - Soluble

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Chloride
 10.9
 4.96
 mg/Kg
 07/16/22 23:05
 1

Client Sample ID: BH-151 6'

Date Collected: 07/12/22 00:00

Date Received: 07/12/22 16:57

Sample Depth: 6'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199		mg/Kg		07/14/22 16:53	07/18/22 15:35	
Toluene	< 0.00199	U	0.00199		mg/Kg		07/14/22 16:53	07/18/22 15:35	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		07/14/22 16:53	07/18/22 15:35	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/22 16:53	07/18/22 15:35	
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/14/22 16:53	07/18/22 15:35	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/22 16:53	07/18/22 15:35	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	111		70 - 130				07/14/22 16:53	07/18/22 15:35	
1,4-Difluorobenzene (Surr)	108		70 - 130				07/14/22 16:53	07/18/22 15:35	
Method: Total BTEX - Total BTE	K Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/19/22 09:14	
Analyte	Result	Qualifier	RL						
		Qualifier		MDL	Unit	D	Prepared	Analyzed	
Total TPH	126	Quainiei	50.0	MDL	mg/Kg	<u>D</u>	Prepared	Analyzed 07/18/22 09:27	
	126			MDL		<u>D</u>	Prepared		
Total TPH	126 ge Organics (D					<u>D</u> 	Prepared Prepared		
Total TPH Method: 8015B NM - Diesel Rang	126 ge Organics (D	RO) (GC) Qualifier	50.0		mg/Kg			07/18/22 09:27	Dil Fa
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	126 ge Organics (D Result	RO) (GC) Qualifier	50.0		mg/Kg		Prepared	07/18/22 09:27 Analyzed	Dil Fa
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (Di Result <50.0	RO) (GC) Qualifier	50.0 RL 50.0		mg/Kg Unit mg/Kg		Prepared 07/15/22 08:42	07/18/22 09:27 Analyzed 07/15/22 16:56	Dil Fa
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (Di Result <50.0	RO) (GC) Qualifier	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/15/22 08:42 07/15/22 08:42	07/18/22 09:27 Analyzed 07/15/22 16:56 07/15/22 16:56	Dil Fa
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	126 ge Organics (Di Result <50.0 126 <50.0	RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/15/22 08:42 07/15/22 08:42	07/18/22 09:27 Analyzed 07/15/22 16:56 07/15/22 16:56	Dil Fa
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	126 ge Organics (Di Result <50.0 126 <50.0 %Recovery	RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/15/22 08:42 07/15/22 08:42 07/15/22 08:42 Prepared	07/18/22 09:27 Analyzed 07/15/22 16:56 07/15/22 16:56 Analyzed	Dil Fa
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	126 ge Organics (Display Result	RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/15/22 08:42 07/15/22 08:42 07/15/22 08:42 Prepared 07/15/22 08:42	07/18/22 09:27 Analyzed 07/15/22 16:56 07/15/22 16:56 Analyzed 07/15/22 16:56	Dil Fa
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	126 ge Organics (D)	RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg		Prepared 07/15/22 08:42 07/15/22 08:42 07/15/22 08:42 Prepared 07/15/22 08:42	07/18/22 09:27 Analyzed 07/15/22 16:56 07/15/22 16:56 Analyzed 07/15/22 16:56	Dil Fa

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4

6

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10

12

Lab Sample ID: 890-2553-11

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2553-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-152 6'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 6'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 17:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 17:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 17:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/18/22 13:40	07/19/22 17:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 17:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/18/22 13:40	07/19/22 17:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				07/18/22 13:40	07/19/22 17:37	1
1,4-Difluorobenzene (Surr)	99		70 - 130				07/18/22 13:40	07/19/22 17:37	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/19/22 09:14	1
Method: 8015 NM - Diesel Range	Organics (DR)	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	•			MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 07/18/22 09:27	
Analyte	Result 74.9	Qualifier		MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result 74.9	Qualifier				<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result 74.9	Qualifier RO) (GC) Qualifier	50.0		mg/Kg		<u> </u>	07/18/22 09:27	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result 74.9 ge Organics (Dige Result	Qualifier RO) (GC) Qualifier	50.0		mg/Kg		Prepared	07/18/22 09:27 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 74.9 ge Organics (Di Result <50.0	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0		mg/Kg Unit mg/Kg		Prepared 07/15/22 08:42	07/18/22 09:27 Analyzed 07/15/22 18:42	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/15/22 08:42 07/15/22 08:42	07/18/22 09:27 Analyzed 07/15/22 18:42 07/15/22 18:42	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/15/22 08:42 07/15/22 08:42	07/18/22 09:27 Analyzed 07/15/22 18:42 07/15/22 18:42	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/15/22 08:42 07/15/22 08:42 07/15/22 08:42 Prepared	07/18/22 09:27 Analyzed 07/15/22 18:42 07/15/22 18:42 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 07/15/22 08:42 07/15/22 08:42 07/15/22 08:42 Prepared 07/15/22 08:42	07/18/22 09:27 Analyzed 07/15/22 18:42 07/15/22 18:42 Analyzed 07/15/22 18:42	Dil Fac 1 1 Dil Fac Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg		Prepared 07/15/22 08:42 07/15/22 08:42 07/15/22 08:42 Prepared 07/15/22 08:42	07/18/22 09:27 Analyzed 07/15/22 18:42 07/15/22 18:42 Analyzed 07/15/22 18:42	1 1 Dil Fac

Client Sample ID: BH-153 6'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 6'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 17:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 17:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 17:57	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/18/22 13:40	07/19/22 17:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 17:57	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/18/22 13:40	07/19/22 17:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				07/18/22 13:40	07/19/22 17:57	1

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Lab Sample ID: 890-2553-12

Matrix: Solid

Lab Sample ID: 890-2553-12

Lab Sample ID: 890-2553-13

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-2553-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-153 6'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 6'

Method: 8021B - Volatile Organic Compou	nds (GC) (Continued)
Welliou. 002 ID - Volatile Organic Compou	iius (OO) (Ooiitiiiu c u)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	93	70 - 130	07/18/22 13:40	07/19/22 17:57	1

Method: Tot	al BTEX - Tota	al BTEX Ca	alculation
mounou. Tot	u. D. L		aiouiutioii

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg		_	07/19/22 09:14	1

l .		
Mothod: 904E NM Dia	sel Range Organics (DRO) (GC)	١
INICITIOU. OUTS ININI - DIC	sel Kalige Organics (DKO) (GC)	,

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	117	49.9	mg/Kg			07/18/22 09:27	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/15/22 08:42	07/15/22 15:06	1
Diesel Range Organics (Over C10-C28)	117		49.9		mg/Kg		07/15/22 08:42	07/15/22 15:06	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/15/22 08:42	07/15/22 15:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

1-Chlorooctane	81	70 - 130	
o-Terphenyl	84	70 - 130	

1-Chlorooctane	81	70 - 130	07/15/22 08:42 07/15/22 15:06	1
o-Terphenyl	84	70 - 130	07/15/22 08:42 07/15/22 15:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.7	4.98	mg/Kg		_	07/16/22 23:51	1

Client Sample ID: BH-154 6'

Date Collected: 07/12/22 00:00

Date Received: 07/12/22 16:57

Sample Depth: 6'

		/							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 18:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 18:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 18:18	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/18/22 13:40	07/19/22 18:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 18:18	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/18/22 13:40	07/19/22 18:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				07/18/22 13:40	07/19/22 18:18	1
1,4-Difluorobenzene (Surr)	95		70 - 130				07/18/22 13:40	07/19/22 18:18	1

Method:	Total R	TFY - T	ntal RT	FX Calcu	ılation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	< 0.00399	U	0.00399		ma/Ka			07/19/22 09:14	1	

Analyte	 	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH		1330		50.0		mg/Kg	 		07/18/22 09:27	1

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7/20/2022

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2553-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-154 6'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57 Sample Depth: 6'

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-2553-13

Lab Sample ID: 890-2553-14

Matrix: Solid

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 13:41	1
Diesel Range Organics (Over C10-C28)	1070		50.0		mg/Kg		07/15/22 08:42	07/15/22 13:41	1
Oll Range Organics (Over C28-C36)	261		50.0		mg/Kg		07/15/22 08:42	07/15/22 13:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				07/15/22 08:42	07/15/22 13:41	1
o-Terphenyl	82		70 - 130				07/15/22 08:42	07/15/22 13:41	1
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			4.98		mg/Kg			07/17/22 00:01	

Client Sample ID: BH-155 6' Date Collected: 07/12/22 00:00

Date Received: 07/12/22 16:57

Sample Depth: 6'

Method: 8021B - Volatile Organic Compounds (GC)

•	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/18/22 13:40	07/19/22 18:38	1
Toluene	< 0.00199	U	0.00199		mg/Kg		07/18/22 13:40	07/19/22 18:38	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		07/18/22 13:40	07/19/22 18:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/18/22 13:40	07/19/22 18:38	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		07/18/22 13:40	07/19/22 18:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/18/22 13:40	07/19/22 18:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				07/18/22 13:40	07/19/22 18:38	1
1,4-Difluorobenzene (Surr)	99		70 - 130				07/18/22 13:40	07/19/22 18:38	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/19/22 09:14	1
Total BTEX : Method: 8015 NM - Diesel Range			0.00398		mg/Kg			07/19/22 09:14	1
	Organics (DR		0.00398	MDL	mg/Kg Unit	<u>D</u>	Prepared	07/19/22 09:14 Analyzed	Dil Fac
: Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)		MDL		<u>D</u>	Prepared		·
Method: 8015 NM - Diesel Range Analyte	Organics (DRO Result	O) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	·
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang	Organics (DR) Result 111 de Organics (DI)	O) (GC) Qualifier	RL		Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH	Organics (DR) Result 111 de Organics (DI)	O) (GC) Qualifier RO) (GC) Qualifier	RL		Unit mg/Kg		<u> </u>	Analyzed 07/18/22 09:27	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Organics (DR Result 111 re Organics (Di Result Resu	O) (GC) Qualifier RO) (GC) Qualifier			Unit mg/Kg		Prepared	Analyzed 07/18/22 09:27	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Organics (DR Result 111 re Organics (Di Result Resu	O) (GC) Qualifier RO) (GC) Qualifier			Unit mg/Kg		Prepared	Analyzed 07/18/22 09:27	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Organics (DR) Result 111 e Organics (Di Result <50.0	Qualifier RO) (GC) Qualifier U	RL 50.0 FL 50.0 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/15/22 08:42 07/15/22 08:42	Analyzed 07/18/22 09:27 Analyzed 07/15/22 14:45 07/15/22 14:45	Dil Fac Dil Fac 1
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Organics (DR/Result 111 de Organics (DR/Result < 50.0	Qualifier RO) (GC) Qualifier U	RL 50.0		Unit mg/Kg Unit mg/Kg		Prepared 07/15/22 08:42	Analyzed 07/18/22 09:27 Analyzed 07/15/22 14:45	Dil Fac Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Organics (DR/Result 111 control of the control of t	Qualifier RO) (GC) Qualifier U	RL 50.0 RL 50.0 50.0 50.0 Limits		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/15/22 08:42 07/15/22 08:42 07/15/22 08:42 Prepared	Analyzed 07/18/22 09:27 Analyzed 07/15/22 14:45 07/15/22 14:45 Analyzed	Dil Fac Dil Fac 1 Dil Fac 1
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Organics (DR Result 111 Pe Organics (DI Result <50.0	Qualifier RO) (GC) Qualifier U	RL 50.0 RL 50.0 50.0 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/15/22 08:42 07/15/22 08:42	Analyzed 07/18/22 09:27 Analyzed 07/15/22 14:45 07/15/22 14:45	Dil Fac Dil Fac 1

Lab Sample ID: 890-2553-14

Client: Tetra Tech, Inc.

Job ID: 890-2553-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-155 6'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 6'

Method: 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	20.8		5.05		mg/Kg			07/17/22 00:29	1	

Client Sample ID: BH-156 6'

Date Collected: 07/12/22 00:00

Matrix: Solid

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 6'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 18:58	
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 18:58	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 18:58	
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/18/22 13:40	07/19/22 18:58	
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 18:58	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/18/22 13:40	07/19/22 18:58	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	109		70 - 130				07/18/22 13:40	07/19/22 18:58	
1,4-Difluorobenzene (Surr)	89		70 - 130				07/18/22 13:40	07/19/22 18:58	
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399		mg/Kg			07/19/22 09:14	
Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	94.0		50.0		mg/Kg			07/18/22 09:27	
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 17:59	
Diesel Range Organics (Over C10-C28)	94.0		50.0		mg/Kg		07/15/22 08:42	07/15/22 17:59	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 17:59	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	88		70 - 130				07/15/22 08:42	07/15/22 17:59	
o-Terphenyl	93		70 - 130				07/15/22 08:42	07/15/22 17:59	
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	16.3		5.00	_	mg/Kg	_		07/17/22 00:38	-

Lab Sample ID: 890-2553-16

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2553-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-157 6'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 6'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199		mg/Kg		07/18/22 13:40	07/19/22 19:19	
Toluene	<0.00199	U	0.00199		mg/Kg		07/18/22 13:40	07/19/22 19:19	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		07/18/22 13:40	07/19/22 19:19	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/18/22 13:40	07/19/22 19:19	
o-Xylene	< 0.00199	U	0.00199		mg/Kg		07/18/22 13:40	07/19/22 19:19	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/18/22 13:40	07/19/22 19:19	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	118		70 - 130				07/18/22 13:40	07/19/22 19:19	
1,4-Difluorobenzene (Surr)	95		70 - 130				07/18/22 13:40	07/19/22 19:19	
Method: Total BTEX - Total BTE)	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/19/22 09:14	
Analyte Total TPH	<50.0	U	50.0		mg/Kg		Prepared	Analyzed 07/18/22 09:27	
-			50.0		mg/Kg			07/18/22 09:27	
Method: 8015B NM - Diesel Rang									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 19:03	
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 19:03	
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 19:03	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
1-Chlorooctane	83		70 - 130				07/15/22 08:42	07/15/22 19:03	
o-Terphenyl	89		70 - 130				07/15/22 08:42	07/15/22 19:03	
		Calubia							
Method: 300.0 - Anions, Ion Chro	•								
Method: 300.0 - Anions, Ion Chro Analyte	•	Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 07/17/22 00:47	Dil Fa

Client Sample ID: BH-158 6' Date Collected: 07/12/22 00:00

Date Received: 07/12/22 16:57

Sample Depth: 6'

REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-2553-17

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 20:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 20:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 20:41	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/18/22 13:40	07/19/22 20:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 20:41	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/18/22 13:40	07/19/22 20:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				07/18/22 13:40	07/19/22 20:41	1

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2553-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-158 6'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57 REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-2553-17

Matrix: Solid

Sample Depth: 6'

Method: 8021B - Volatile Organic Compound	s (GC) (Continued)
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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	91		70 - 130	07/18/22 13:40	07/19/22 20:41	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			07/19/22 09:14	1

Method: 8015 NM - Diesel Range O	rganics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Р	repared	Analyzed	Dil Fac	
Total TPH	9550		250		mg/Kg				07/18/22 09:27	1	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<250	U	250		mg/Kg		07/15/22 08:42	07/15/22 13:19	5
Diesel Range Organics (Over C10-C28)	7890		250		mg/Kg		07/15/22 08:42	07/15/22 13:19	5
Oll Range Organics (Over C28-C36)	1660		250		mg/Kg		07/15/22 08:42	07/15/22 13:19	5

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77	70 - 130	07/15/22 08:42	07/15/22 13:19	5
o-Terphenyl	88	70 - 130	07/15/22 08:42	07/15/22 13:19	5

Method: 300.0 - Anions,	Ion Chromatography	- Soluble
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Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	117	4.99	ma/Ka			07/17/22 00:56	1

Client Sample ID: SW-50 0-6'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 0' - 6'

REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-2553-18

Matrix: Solid

Method: 8021B - \	Volatile Organic	Compounds	(GC)
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_		,							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/18/22 13:40	07/19/22 19:39	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/18/22 13:40	07/19/22 19:39	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/18/22 13:40	07/19/22 19:39	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/18/22 13:40	07/19/22 19:39	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/18/22 13:40	07/19/22 19:39	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/18/22 13:40	07/19/22 19:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				07/18/22 13:40	07/19/22 19:39	1
1,4-Difluorobenzene (Surr)	96		70 - 130				07/18/22 13:40	07/19/22 19:39	1

Method: Tota	I RTFY .	. Total RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	1	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg				07/19/22 09:14	1

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Client Sample Results

Job ID: 890-2553-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-50 0-6'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57 Sample Depth: 0' - 6'

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-2553-18

Matrix: Solid

Dil Fac

Matrix: Solid

Analyzed

07/17/22 01:06

Lab Sample ID: 890-2553-19

Method: 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Dil Fac Unit D Prepared Analyzed 49.9 07/18/22 09:27 **Total TPH** 152 mg/Kg Method: 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier RL MDL Dil Fac Analyte Unit D Prepared Analyzed <49.9 U 49.9 07/15/22 08:42 07/15/22 18:21 Gasoline Range Organics mg/Kg (GRO)-C6-C10 **Diesel Range Organics (Over** 49.9 07/15/22 08:42 07/15/22 18:21 mg/Kg 152 C10-C28) Oll Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 07/15/22 08:42 07/15/22 18:21 %Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 1-Chlorooctane 74 70 - 130 07/15/22 08:42 07/15/22 18:21 o-Terphenyl 78 70 - 130 07/15/22 08:42 07/15/22 18:21

RL

4.95

MDL Unit

mg/Kg

D

Prepared

07/15/22 08:43

Client Sample ID: SW-51 0-6' Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Method: 300.0 - Anions, Ion Chromatography - Soluble

Sample Depth: 0' - 6'

Analyte

Chloride

REMOVED FROM ANALYSIS TABLE

Result Qualifier

9.67

<50.0 U

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 20:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 20:00	•
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 20:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/18/22 13:40	07/19/22 20:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 20:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/18/22 13:40	07/19/22 20:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				07/18/22 13:40	07/19/22 20:00	1
1,4-Difluorobenzene (Surr)	104		70 - 130				07/18/22 13:40	07/19/22 20:00	1
: Method: Total BTEX - Total BT	EX Calculation								
Method: Total BTEX - Total BT		Qualifier	ВI	MDI	l loit	D	Dropared	Analyzad	Dil Eoo
Analyte		Qualifier		MDL		<u>D</u>	Prepared	Analyzed 07/19/22 09:14	
Analyte	Result			MDL	Unit mg/Kg	<u>D</u>	Prepared		
Analyte Total BTEX	<0.00399	U		MDL		<u>D</u>	Prepared		
Analyte Total BTEX Method: 8015 NM - Diesel Ran	Result <0.00399 ge Organics (DR	U				<u>D</u>	Prepared Prepared		1
Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte	Result <0.00399 ge Organics (DR	U (GC)	0.00399		mg/Kg	=		07/19/22 09:14	1
	ge Organics (DR) Result 202	O) (GC) Qualifier	0.00399		mg/Kg	=		07/19/22 09:14 Analyzed	1
Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH	ge Organics (DR) Result 202 unge Organics (D	O) (GC) Qualifier	0.00399	MDL	mg/Kg	=		07/19/22 09:14 Analyzed	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ra	ge Organics (DR) Result 202 unge Organics (D	O) (GC) Qualifier RO) (GC) Qualifier	0.00399 RL 50.0	MDL	mg/Kg Unit mg/Kg		Prepared	07/19/22 09:14 Analyzed 07/18/22 09:27	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics	ge Organics (DR) Result 202 Rege Organics (DR) Result Result Result	O) (GC) Qualifier RO) (GC) Qualifier	0.00399 RL 50.0	MDL	mg/Kg Unit mg/Kg Unit		Prepared Prepared	07/19/22 09:14 Analyzed 07/18/22 09:27 Analyzed	Dil Fac Dil Fac 1 Dil Fac 1 1 1

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07/15/22 19:24

50.0

mg/Kg

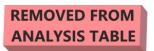
OII Range Organics (Over C28-C36)

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2553-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-51 0-6'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57



Lab Sample ID: 890-2553-19

Matrix: Solid

Sample Depth: 0' - 6'

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90	70 - 130	07/15/22 08:43	07/15/22 19:24	1
o-Terphenyl	92	70 - 130	07/15/22 08:43	07/15/22 19:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Quality		MDL Unit	D	Prepared	Analyzed	DII Fac
Chloride	143	4.95	mg/Kg			07/17/22 01:15	1

Lab Sample ID: 890-2553-20

Matrix: Solid

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Client Sample ID: SW-52 0-6'

Sample Depth: 0' - 6'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 20:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 20:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 20:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/18/22 13:40	07/19/22 20:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 20:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/18/22 13:40	07/19/22 20:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				07/18/22 13:40	07/19/22 20:20	1
1,4-Difluorobenzene (Surr)	97		70 - 130				07/18/22 13:40	07/19/22 20:20	1
Method: Total BTEX - Total B Analyte									
raidiyto	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	Result < 0.00399			MDL	mg/Kg	<u>D</u>	Prepared	Analyzed 07/19/22 09:14	Dil Fac
Total BTEX	<0.00399	U		MDL		<u>D</u>	Prepared		Dil Fac
Total BTEX Method: 8015 NM - Diesel Rai	<0.00399	U				<u>D</u> 	Prepared Prepared		1
Total BTEX	<0.00399	U (GC)	0.00399		mg/Kg	=		07/19/22 09:14	Dil Fac
Total BTEX Method: 8015 NM - Diesel Rai Analyte	<0.00399 nge Organics (DR Result 81.4	O) (GC) Qualifier	0.00399 RL		mg/Kg	=		07/19/22 09:14 Analyzed	1
Total BTEX Method: 8015 NM - Diesel Rai Analyte Total TPH	<0.00399 nge Organics (DR Result 81.4 ange Organics (D	O) (GC) Qualifier	0.00399 RL	MDL	mg/Kg	=		07/19/22 09:14 Analyzed	1

49.8

49.8

RL

4.97

Limits

70 - 130

70 - 130

81.4

<49.8 U

%Recovery Qualifier

92

97

386

Result Qualifier

mg/Kg

mg/Kg

MDL Unit

mg/Kg

07/15/22 08:43

07/15/22 08:43

Prepared

07/15/22 08:43

07/15/22 08:43

Prepared

D

07/15/22 16:13

07/15/22 16:13

Analyzed

07/15/22 16:13

07/15/22 16:13

Analyzed

07/17/22 01:24

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Dil Fac

Dil Fac

Diesel Range Organics (Over

OII Range Organics (Over C28-C36)

Method: 300.0 - Anions, Ion Chromatography - Soluble

C10-C28)

Surrogate

Analyte

Chloride

1-Chlorooctane o-Terphenyl

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-2553-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surro
		BFB1	DFBZ1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
380-17008-A-21-C MS	Matrix Spike	107	95	
380-17008-A-21-D MSD	Matrix Spike Duplicate	117	92	
890-2553-1	BH-142 5'	109	107	
390-2553-1 MS	BH-142 5'	97	85	
390-2553-1 MSD	BH-142 5'	118	90	
390-2553-2	BH-143 5'	130	98	
390-2553-3	BH-144 5'	113	96	
890-2553-4	BH-145 5'	110	108	
890-2553-5	BH-146 5'	112	111	
890-2553-6	BH-147 6'	106	110	
890-2553-7	BH-148 6'	112	96	
890-2553-8	BH-149 6'	111	110	
390-2553-9	BH-150 6'	105	108	
390-2553-10	BH-151 6'	111	108	
390-2553-11	BH-152 6'	110	99	
390-2553-12	BH-153 6'	108	93	
890-2553-13	BH-154 6'	96	95	
890-2553-14	BH-155 6'	106	99	
890-2553-15	BH-156 6'	109	89	
890-2553-16	BH-157 6'	118	95	
890-2553-17	BH-158 6'	105	91	
890-2553-18	SW-50 0-6'	103	96	
890-2553-19	SW-51 0-6'	116	104	
890-2553-20	SW-52 0-6'	111	97	
LCS 880-29774/1-A	Lab Control Sample	114	88	
LCS 880-29947/1-A	Lab Control Sample	108	96	
LCSD 880-29774/2-A	Lab Control Sample Dup	97	99	
LCSD 880-29947/2-A	Lab Control Sample Dup	109	94	
MB 880-29774/5-A	Method Blank	97	110	
MB 880-29947/5-A	Method Blank	97 97	97	
IVID 000-29947/0-A	MENION DIVIN	91	91	

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acc
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2553-1	BH-142 5'	81	88	
890-2553-1 MS	BH-142 5'	82	79	
890-2553-1 MSD	BH-142 5'	87	84	
890-2553-2	BH-143 5'	99	104	
890-2553-3	BH-144 5'	84	86	
890-2553-4	BH-145 5'	78	82	
890-2553-5	BH-146 5'	77	82	
890-2553-6	BH-147 6'	85	88	
890-2553-7	BH-148 6'	99	101	

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Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-2553-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2553-8	BH-149 6'	86	91	
890-2553-9	BH-150 6'	96	102	
890-2553-10	BH-151 6'	93	99	
890-2553-11	BH-152 6'	78	83	
890-2553-12	BH-153 6'	81	84	
890-2553-13	BH-154 6'	81	82	
890-2553-14	BH-155 6'	78	80	
890-2553-15	BH-156 6'	88	93	
890-2553-16	BH-157 6'	83	89	
890-2553-17	BH-158 6'	77	88	
890-2553-18	SW-50 0-6'	74	78	
890-2553-19	SW-51 0-6'	90	92	
890-2553-20	SW-52 0-6'	92	97	
LCS 880-29795/2-A	Lab Control Sample	118	124	
LCSD 880-29795/3-A	Lab Control Sample Dup	127	128	
MB 880-29795/1-A	Method Blank	92	103	

OTPH = o-Terphenyl

14

Client: Tetra Tech, Inc. Job ID: 890-2553-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-29774/5-A

Matrix: Solid

Analysis Batch: 29893

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29774

	1410	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 12:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 12:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 12:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/22 16:53	07/18/22 12:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 12:05	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/22 16:53	07/18/22 12:05	1

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	07/14/22 16:53	07/18/22 12:05	1
1,4-Difluorobenzene (Surr)	110		70 - 130	07/14/22 16:53	07/18/22 12:05	1

Lab Sample ID: LCS 880-29774/1-A

Matrix: Solid

Analysis Batch: 29893

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29774

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09196 mg/Kg 92 70 - 130 Toluene 0.100 0.1153 mg/Kg 115 70 - 130 0.100 Ethylbenzene 0.1149 mg/Kg 115 70 - 130 0.200 0.2397 120 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.1241 70 - 130 o-Xylene mg/Kg 124

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: LCSD 880-29774/2-A

Matrix: Solid

Analysis Batch: 29893

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 29774

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1022		mg/Kg		102	70 - 130	11	35
Toluene	0.100	0.09957		mg/Kg		100	70 - 130	15	35
Ethylbenzene	0.100	0.08943		mg/Kg		89	70 - 130	25	35
m-Xylene & p-Xylene	0.200	0.1801		mg/Kg		90	70 - 130	28	35
o-Xylene	0.100	0.09438		mg/Kg		94	70 - 130	27	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	97	70 - 130
1,4-Difluorobenzene (Surr)	99	70 - 130

Lab Sample ID: 890-2553-1 MS

Matrix: Solid

Analysis Batch: 29893

Client Sample ID: BH-142 5'

Prep Type: Total/NA

Prep Batch: 29774

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F1	0.100	0.08275		mg/Kg		83	70 - 130	
Toluene	< 0.00200	U	0.100	0.09095		mg/Kg		91	70 - 130	

QC Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2553-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2553-1 MS

Matrix: Solid

Analysis Batch: 29893

Client Sample ID: BH-142 5'
Prep Type: Total/NA

Prep Batch: 29774

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits D Ethylbenzene <0.00200 U 0.100 0.07967 80 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00401 0.200 0.1588 mg/Kg 79 70 - 130 <0.00200 U 0.100 o-Xylene 0.08167 mg/Kg 82 70 - 130

MS MS

Surrogate	%Recovery Qualit	fier Limits
4-Bromofluorobenzene (Surr)	97	70 - 130
1,4-Difluorobenzene (Surr)	85	70 - 130

Lab Sample ID: 890-2553-1 MSD

Matrix: Solid

Analysis Batch: 29893

Client Sample ID: BH-142 5'

Prep Type: Total/NA

Prep Batch: 29774

Sample Sample Spike MSD MSD %Rec Result Qualifier Added Result Qualifier RPD Limit Analyte Unit Limits 0.0994 0.06644 F1 Benzene <0.00200 UF1 mg/Kg 67 70 - 130 22 35 Toluene 0.0994 0.07947 80 <0.00200 mg/Kg 70 - 130 13 35 Ethylbenzene <0.00200 0.0994 0.07332 mg/Kg 74 70 - 130 8 35 U <0.00401 U 0.199 0.1541 78 70 - 130 35 m-Xylene & p-Xylene mg/Kg 3 0.0994 <0.00200 U 0.08160 82 70 - 130 o-Xylene mg/Kg 0

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: MB 880-29947/5-A

Matrix: Solid

Analysis Batch: 30015

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29947

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 11:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 11:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 11:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/18/22 13:40	07/19/22 11:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 11:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/18/22 13:40	07/19/22 11:47	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	07/18/22 13:40	07/19/22 11:47	1
1,4-Difluorobenzene (Surr)	97		70 - 130	07/18/22 13:40	07/19/22 11:47	1

Lab Sample ID: LCS 880-29947/1-A

Matrix: Solid

Analysis Batch: 30015

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29947

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08396		mg/Kg		84	70 - 130	
Toluene	0.100	0.08292		mg/Kg		83	70 - 130	
Ethylbenzene	0.100	0.08272		mg/Kg		83	70 - 130	
m-Xylene & p-Xylene	0.200	0.1743		mg/Kg		87	70 - 130	

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/20/2022

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2553-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-29947/1-A **Matrix: Solid**

Analysis Batch: 30015

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29947

Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits o-Xylene 0.100 0.09506 95 70 - 130 mg/Kg

70 - 130

LCS LCS %Recovery Qualifier Limits 108 70 - 130

96

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 29947

Lab Sample ID: LCSD 880-29947/2-A **Matrix: Solid**

Analysis Batch: 30015

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Surrogate

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08247		mg/Kg		82	70 - 130	2	35
Toluene	0.100	0.08858		mg/Kg		89	70 - 130	7	35
Ethylbenzene	0.100	0.08883		mg/Kg		89	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1891		mg/Kg		95	70 - 130	8	35
o-Xylene	0.100	0.1032		mg/Kg		103	70 - 130	8	35

LCSD LCSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 109 70 - 130 1,4-Difluorobenzene (Surr) 94 70 - 130

Lab Sample ID: 880-17008-A-21-C MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 30015

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U F2 F1	0.100	0.01945	F1	mg/Kg		19	70 - 130	
Toluene	<0.00201	U F2 F1	0.100	0.01816	F1	mg/Kg		18	70 - 130	
Ethylbenzene	<0.00201	U F2 F1	0.100	0.01493	F1	mg/Kg		14	70 - 130	
m-Xylene & p-Xylene	<0.00402	U F2 F1	0.200	0.03295	F1	mg/Kg		15	70 - 130	
o-Xylene	0.00273	F2 F1	0.100	0.01888	F1	mg/Kg		16	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-17008-A-21-D MSD

Matrix: Solid

Analysis Batch: 30015

Prep Type: Total/NA

Prep Batch: 29947

Prep Batch: 29947

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U F2 F1	0.0998	0.03835	F2 F1	mg/Kg		38	70 - 130	65	35
Toluene	<0.00201	U F2 F1	0.0998	0.05746	F2 F1	mg/Kg		58	70 - 130	104	35
Ethylbenzene	<0.00201	U F2 F1	0.0998	0.04190	F2 F1	mg/Kg		41	70 - 130	95	35
m-Xylene & p-Xylene	<0.00402	U F2 F1	0.200	0.05289	F2 F1	mg/Kg		25	70 - 130	46	35
o-Xylene	0.00273	F2 F1	0.0998	0.02937	F2 F1	mg/Kg		27	70 - 130	43	35

Job ID: 890-2553-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-17008-A-21-D MSD

Matrix: Solid

Analysis Batch: 30015

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 29947

MSD MSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 117 70 - 130 1,4-Difluorobenzene (Surr) 92 70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-29795/1-A

Matrix: Solid

Analysis Batch: 29788

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29795

Dil Fac

MB MB Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Gasoline Range Organics <50.0 U 50.0 07/15/22 08:42 07/15/22 10:08 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 07/15/22 08:42 07/15/22 10:08

C10-C28)

Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 07/15/22 08:42 07/15/22 10:08

MB MB

Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed 70 - 130 07/15/22 08:42 07/15/22 10:08 1-Chlorooctane 92 o-Terphenyl 103 70 - 130 07/15/22 08:42 07/15/22 10:08

Lab Sample ID: LCS 880-29795/2-A

Matrix: Solid

Analysis Batch: 29788

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 29795

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 867.0 mg/Kg 87 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 990.9 mg/Kg 99 70 - 130 C10-C28)

LCS LCS %Recovery Surrogate Qualifier Limits 1-Chlorooctane 118 70 - 130 o-Terphenyl 124 70 - 130

Lab Sample ID: LCSD 880-29795/3-A

Matrix: Solid

Analysis Batch: 29788

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 29795

%Rec RPD Limits RPD Limit 70 - 130 15 20

Spike LCSD LCSD Analyte Added Result Qualifier Unit %Rec Gasoline Range Organics 1000 1009 101 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1041 104 70 - 130 5 20 mg/Kg C10-C28)

%Recovery Surrogate Qualifier Limits 70 - 130 1-Chlorooctane 127 128 70 - 130 o-Terphenyl

LCSD LCSD

Lab Sample ID: 890-2553-1 MS

Job ID: 890-2553-1

SDG: Lea County NM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Client Sample ID: BH-142 5'

Prep Batch: 29795

Matrix: Solid Prep Type: Total/NA Analysis Batch: 29788 Prep Batch: 29795

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<50.0	U	1000	884.9		mg/Kg		87	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.0	U	1000	756.2		mg/Kg		72	70 - 130	
C10-C28)										

	MS MS					
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	82		70 - 130			
o-Terphenyl	79		70 - 130			

Lab Sample ID: 890-2553-1 MSD Client Sample ID: BH-142 5' Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 29788

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0	U	999	939.7		mg/Kg		92	70 - 130	6	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.0	U	999	809.8		mg/Kg		77	70 - 130	7	20
C10-C28)											

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 87 70 - 130 o-Terphenyl 84 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-29754/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 29864

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/16/22 20:47	1

Lab Sample ID: LCS 880-29754/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 29864

	Spike	LCS	LCS			%Rec	
Analyte	Added	Result	Qualifier Unit	D	%Rec	Limits	
Chloride	250	256.2	ma/Ka		102	90 110	

Lab Sample ID: LCSD 880-29754/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 29864

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	254.8		mg/Kg		102	90 - 110	1	20

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2553-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2553-1 MS Client Sample ID: BH-142 5' **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 29864

Sample Sample Spike MS MS %Rec Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits Chloride 167 F1 248 444.9 F1 mg/Kg 112 90 - 110

Lab Sample ID: 890-2553-1 MSD Client Sample ID: BH-142 5' **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 29864

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Chloride 167 F1 248 444.7 F1 mg/Kg 112 90 - 110 0

Lab Sample ID: 890-2553-11 MS Client Sample ID: BH-152 6'

Matrix: Solid Prep Type: Soluble

Analysis Batch: 29864

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Chloride 16.0 251 292.7 110 90 - 110 mg/Kg

Lab Sample ID: 890-2553-11 MSD Client Sample ID: BH-152 6' **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 29864

Spike Sample Sample MSD MSD RPD %Rec Analyte Result Qualifier Added Qualifier Unit %Rec RPD Limit Result Limits 292.7 Chloride 16.0 251 110 90 - 110 20 mg/Kg

Client: Tetra Tech, Inc. Job ID: 890-2553-1 Project/Site: Kaiser SWD SDG: Lea County NM

GC VOA

Prep Batch: 29774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2553-1	BH-142 5'	Total/NA	Solid	5035	
890-2553-2	BH-143 5'	Total/NA	Solid	5035	
890-2553-3	BH-144 5'	Total/NA	Solid	5035	
890-2553-4	BH-145 5'	Total/NA	Solid	5035	
890-2553-5	BH-146 5'	Total/NA	Solid	5035	
890-2553-6	BH-147 6'	Total/NA	Solid	5035	
890-2553-7	BH-148 6'	Total/NA	Solid	5035	
890-2553-8	BH-149 6'	Total/NA	Solid	5035	
890-2553-9	BH-150 6'	Total/NA	Solid	5035	
890-2553-10	BH-151 6'	Total/NA	Solid	5035	
MB 880-29774/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29774/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29774/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2553-1 MS	BH-142 5'	Total/NA	Solid	5035	
890-2553-1 MSD	BH-142 5'	Total/NA	Solid	5035	

Analysis Batch: 29893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2553-1	BH-142 5'	Total/NA	Solid	8021B	29774
890-2553-2	BH-143 5'	Total/NA	Solid	8021B	29774
890-2553-3	BH-144 5'	Total/NA	Solid	8021B	29774
890-2553-4	BH-145 5'	Total/NA	Solid	8021B	29774
890-2553-5	BH-146 5'	Total/NA	Solid	8021B	29774
890-2553-6	BH-147 6'	Total/NA	Solid	8021B	29774
890-2553-7	BH-148 6'	Total/NA	Solid	8021B	29774
890-2553-8	BH-149 6'	Total/NA	Solid	8021B	29774
890-2553-9	BH-150 6'	Total/NA	Solid	8021B	29774
890-2553-10	BH-151 6'	Total/NA	Solid	8021B	29774
MB 880-29774/5-A	Method Blank	Total/NA	Solid	8021B	29774
LCS 880-29774/1-A	Lab Control Sample	Total/NA	Solid	8021B	29774
LCSD 880-29774/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29774
890-2553-1 MS	BH-142 5'	Total/NA	Solid	8021B	29774
890-2553-1 MSD	BH-142 5'	Total/NA	Solid	8021B	29774

Prep Batch: 29947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-2553-11	BH-152 6'	Total/NA	Solid	5035	
890-2553-12	BH-153 6'	Total/NA	Solid	5035	
890-2553-13	BH-154 6'	Total/NA	Solid	5035	
890-2553-14	BH-155 6'	Total/NA	Solid	5035	
890-2553-15	BH-156 6'	Total/NA	Solid	5035	
890-2553-16	BH-157 6'	Total/NA	Solid	5035	
890-2553-17	BH-158 6'	Total/NA	Solid	5035	
890-2553-18	SW-50 0-6'	Total/NA	Solid	5035	
890-2553-19	SW-51 0-6'	Total/NA	Solid	5035	
890-2553-20	SW-52 0-6'	Total/NA	Solid	5035	
MB 880-29947/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-29947/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-29947/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-17008-A-21-C MS	Matrix Spike	Total/NA	Solid	5035	
880-17008-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Client: Tetra Tech, Inc. Job ID: 890-2553-1 Project/Site: Kaiser SWD SDG: Lea County NM

GC VOA

Analysis Batch: 30015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2553-11	BH-152 6'	Total/NA	Solid	8021B	29947
890-2553-12	BH-153 6'	Total/NA	Solid	8021B	29947
890-2553-13	BH-154 6'	Total/NA	Solid	8021B	29947
890-2553-14	BH-155 6'	Total/NA	Solid	8021B	29947
890-2553-15	BH-156 6'	Total/NA	Solid	8021B	29947
890-2553-16	BH-157 6'	Total/NA	Solid	8021B	29947
890-2553-17	BH-158 6'	Total/NA	Solid	8021B	29947
890-2553-18	SW-50 0-6'	Total/NA	Solid	8021B	29947
890-2553-19	SW-51 0-6'	Total/NA	Solid	8021B	29947
890-2553-20	SW-52 0-6'	Total/NA	Solid	8021B	29947
MB 880-29947/5-A	Method Blank	Total/NA	Solid	8021B	29947
LCS 880-29947/1-A	Lab Control Sample	Total/NA	Solid	8021B	29947
LCSD 880-29947/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	29947
880-17008-A-21-C MS	Matrix Spike	Total/NA	Solid	8021B	29947
880-17008-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	29947

Analysis Batch: 30030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2553-1	BH-142 5'	Total/NA	Solid	Total BTEX	
890-2553-2	BH-143 5'	Total/NA	Solid	Total BTEX	
890-2553-3	BH-144 5'	Total/NA	Solid	Total BTEX	
890-2553-4	BH-145 5'	Total/NA	Solid	Total BTEX	
890-2553-5	BH-146 5'	Total/NA	Solid	Total BTEX	
890-2553-6	BH-147 6'	Total/NA	Solid	Total BTEX	
890-2553-7	BH-148 6'	Total/NA	Solid	Total BTEX	
890-2553-8	BH-149 6'	Total/NA	Solid	Total BTEX	
890-2553-9	BH-150 6'	Total/NA	Solid	Total BTEX	
890-2553-10	BH-151 6'	Total/NA	Solid	Total BTEX	
890-2553-11	BH-152 6'	Total/NA	Solid	Total BTEX	
890-2553-12	BH-153 6'	Total/NA	Solid	Total BTEX	
890-2553-13	BH-154 6'	Total/NA	Solid	Total BTEX	
890-2553-14	BH-155 6'	Total/NA	Solid	Total BTEX	
890-2553-15	BH-156 6'	Total/NA	Solid	Total BTEX	
890-2553-16	BH-157 6'	Total/NA	Solid	Total BTEX	
890-2553-17	BH-158 6'	Total/NA	Solid	Total BTEX	
890-2553-18	SW-50 0-6'	Total/NA	Solid	Total BTEX	
890-2553-19	SW-51 0-6'	Total/NA	Solid	Total BTEX	
890-2553-20	SW-52 0-6'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 29788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2553-1	BH-142 5'	Total/NA	Solid	8015B NM	29795
890-2553-2	BH-143 5'	Total/NA	Solid	8015B NM	29795
890-2553-3	BH-144 5'	Total/NA	Solid	8015B NM	29795
890-2553-4	BH-145 5'	Total/NA	Solid	8015B NM	29795
890-2553-5	BH-146 5'	Total/NA	Solid	8015B NM	29795
890-2553-6	BH-147 6'	Total/NA	Solid	8015B NM	29795
890-2553-7	BH-148 6'	Total/NA	Solid	8015B NM	29795
890-2553-8	BH-149 6'	Total/NA	Solid	8015B NM	29795

Client: Tetra Tech, Inc.

Job ID: 890-2553-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC Semi VOA (Continued)

Analysis Batch: 29788 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2553-9	BH-150 6'	Total/NA	Solid	8015B NM	29795
890-2553-10	BH-151 6'	Total/NA	Solid	8015B NM	29795
890-2553-11	BH-152 6'	Total/NA	Solid	8015B NM	29795
890-2553-12	BH-153 6'	Total/NA	Solid	8015B NM	29795
890-2553-13	BH-154 6'	Total/NA	Solid	8015B NM	29795
890-2553-14	BH-155 6'	Total/NA	Solid	8015B NM	29795
890-2553-15	BH-156 6'	Total/NA	Solid	8015B NM	29795
890-2553-16	BH-157 6'	Total/NA	Solid	8015B NM	29795
890-2553-17	BH-158 6'	Total/NA	Solid	8015B NM	29795
890-2553-18	SW-50 0-6'	Total/NA	Solid	8015B NM	29795
890-2553-19	SW-51 0-6'	Total/NA	Solid	8015B NM	29795
890-2553-20	SW-52 0-6'	Total/NA	Solid	8015B NM	29795
MB 880-29795/1-A	Method Blank	Total/NA	Solid	8015B NM	29795
LCS 880-29795/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	29795
LCSD 880-29795/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	29795
890-2553-1 MS	BH-142 5'	Total/NA	Solid	8015B NM	29795
890-2553-1 MSD	BH-142 5'	Total/NA	Solid	8015B NM	29795

Prep Batch: 29795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2553-1	BH-142 5'	Total/NA	Solid	8015NM Prep	
890-2553-2	BH-143 5'	Total/NA	Solid	8015NM Prep	
890-2553-3	BH-144 5'	Total/NA	Solid	8015NM Prep	
890-2553-4	BH-145 5'	Total/NA	Solid	8015NM Prep	
890-2553-5	BH-146 5'	Total/NA	Solid	8015NM Prep	
890-2553-6	BH-147 6'	Total/NA	Solid	8015NM Prep	
890-2553-7	BH-148 6'	Total/NA	Solid	8015NM Prep	
890-2553-8	BH-149 6'	Total/NA	Solid	8015NM Prep	
890-2553-9	BH-150 6'	Total/NA	Solid	8015NM Prep	
890-2553-10	BH-151 6'	Total/NA	Solid	8015NM Prep	
890-2553-11	BH-152 6'	Total/NA	Solid	8015NM Prep	
890-2553-12	BH-153 6'	Total/NA	Solid	8015NM Prep	
890-2553-13	BH-154 6'	Total/NA	Solid	8015NM Prep	
890-2553-14	BH-155 6'	Total/NA	Solid	8015NM Prep	
890-2553-15	BH-156 6'	Total/NA	Solid	8015NM Prep	
890-2553-16	BH-157 6'	Total/NA	Solid	8015NM Prep	
890-2553-17	BH-158 6'	Total/NA	Solid	8015NM Prep	
890-2553-18	SW-50 0-6'	Total/NA	Solid	8015NM Prep	
890-2553-19	SW-51 0-6'	Total/NA	Solid	8015NM Prep	
890-2553-20	SW-52 0-6'	Total/NA	Solid	8015NM Prep	
MB 880-29795/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-29795/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-29795/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2553-1 MS	BH-142 5'	Total/NA	Solid	8015NM Prep	
890-2553-1 MSD	BH-142 5'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 29911

Lab Sample ID 890-2553-1	Client Sample ID BH-142 5'	Prep Type Total/NA	Matrix Solid	Method 8015 NM	Prep Batch
890-2553-2	BH-143 5'	Total/NA	Solid	8015 NM	
890-2553-3	BH-144 5'	Total/NA	Solid	8015 NM	

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Client: Tetra Tech, Inc. Job ID: 890-2553-1 Project/Site: Kaiser SWD SDG: Lea County NM

GC Semi VOA (Continued)

Analysis Batch: 29911 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2553-4	BH-145 5'	Total/NA	Solid	8015 NM	
890-2553-5	BH-146 5'	Total/NA	Solid	8015 NM	
890-2553-6	BH-147 6'	Total/NA	Solid	8015 NM	
890-2553-7	BH-148 6'	Total/NA	Solid	8015 NM	
890-2553-8	BH-149 6'	Total/NA	Solid	8015 NM	
890-2553-9	BH-150 6'	Total/NA	Solid	8015 NM	
890-2553-10	BH-151 6'	Total/NA	Solid	8015 NM	
890-2553-11	BH-152 6'	Total/NA	Solid	8015 NM	
890-2553-12	BH-153 6'	Total/NA	Solid	8015 NM	
890-2553-13	BH-154 6'	Total/NA	Solid	8015 NM	
890-2553-14	BH-155 6'	Total/NA	Solid	8015 NM	
890-2553-15	BH-156 6'	Total/NA	Solid	8015 NM	
890-2553-16	BH-157 6'	Total/NA	Solid	8015 NM	
890-2553-17	BH-158 6'	Total/NA	Solid	8015 NM	
890-2553-18	SW-50 0-6'	Total/NA	Solid	8015 NM	
890-2553-19	SW-51 0-6'	Total/NA	Solid	8015 NM	
890-2553-20	SW-52 0-6'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 29754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-2553-1	BH-142 5'	Soluble	Solid	DI Leach	
890-2553-2	BH-143 5'	Soluble	Solid	DI Leach	
890-2553-3	BH-144 5'	Soluble	Solid	DI Leach	
890-2553-4	BH-145 5'	Soluble	Solid	DI Leach	
390-2553-5	BH-146 5'	Soluble	Solid	DI Leach	
390-2553-6	BH-147 6'	Soluble	Solid	DI Leach	
390-2553-7	BH-148 6'	Soluble	Solid	DI Leach	
390-2553-8	BH-149 6'	Soluble	Solid	DI Leach	
390-2553-9	BH-150 6'	Soluble	Solid	DI Leach	
390-2553-10	BH-151 6'	Soluble	Solid	DI Leach	
390-2553-11	BH-152 6'	Soluble	Solid	DI Leach	
90-2553-12	BH-153 6'	Soluble	Solid	DI Leach	
90-2553-13	BH-154 6'	Soluble	Solid	DI Leach	
90-2553-14	BH-155 6'	Soluble	Solid	DI Leach	
90-2553-15	BH-156 6'	Soluble	Solid	DI Leach	
90-2553-16	BH-157 6'	Soluble	Solid	DI Leach	
90-2553-17	BH-158 6'	Soluble	Solid	DI Leach	
390-2553-18	SW-50 0-6'	Soluble	Solid	DI Leach	
90-2553-19	SW-51 0-6'	Soluble	Solid	DI Leach	
90-2553-20	SW-52 0-6'	Soluble	Solid	DI Leach	
/IB 880-29754/1-A	Method Blank	Soluble	Solid	DI Leach	
CS 880-29754/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
.CSD 880-29754/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
90-2553-1 MS	BH-142 5'	Soluble	Solid	DI Leach	
90-2553-1 MSD	BH-142 5'	Soluble	Solid	DI Leach	
890-2553-11 MS	BH-152 6'	Soluble	Solid	DI Leach	
890-2553-11 MSD	BH-152 6'	Soluble	Solid	DI Leach	

Client: Tetra Tech, Inc.

Job ID: 890-2553-1

Project/Site: Kaiser SWD

SDG: Lea County NM

HPLC/IC

Analysis Batch: 29864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2553-1	BH-142 5'	Soluble	Solid	300.0	29754
890-2553-2	BH-143 5'	Soluble	Solid	300.0	29754
890-2553-3	BH-144 5'	Soluble	Solid	300.0	29754
890-2553-4	BH-145 5'	Soluble	Solid	300.0	29754
890-2553-5	BH-146 5'	Soluble	Solid	300.0	29754
890-2553-6	BH-147 6'	Soluble	Solid	300.0	29754
890-2553-7	BH-148 6'	Soluble	Solid	300.0	29754
890-2553-8	BH-149 6'	Soluble	Solid	300.0	29754
890-2553-9	BH-150 6'	Soluble	Solid	300.0	29754
890-2553-10	BH-151 6'	Soluble	Solid	300.0	29754
890-2553-11	BH-152 6'	Soluble	Solid	300.0	29754
890-2553-12	BH-153 6'	Soluble	Solid	300.0	29754
890-2553-13	BH-154 6'	Soluble	Solid	300.0	29754
890-2553-14	BH-155 6'	Soluble	Solid	300.0	29754
890-2553-15	BH-156 6'	Soluble	Solid	300.0	29754
890-2553-16	BH-157 6'	Soluble	Solid	300.0	29754
890-2553-17	BH-158 6'	Soluble	Solid	300.0	29754
890-2553-18	SW-50 0-6'	Soluble	Solid	300.0	29754
890-2553-19	SW-51 0-6'	Soluble	Solid	300.0	29754
890-2553-20	SW-52 0-6'	Soluble	Solid	300.0	29754
MB 880-29754/1-A	Method Blank	Soluble	Solid	300.0	29754
LCS 880-29754/2-A	Lab Control Sample	Soluble	Solid	300.0	29754
LCSD 880-29754/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	29754
890-2553-1 MS	BH-142 5'	Soluble	Solid	300.0	29754
890-2553-1 MSD	BH-142 5'	Soluble	Solid	300.0	29754
890-2553-11 MS	BH-152 6'	Soluble	Solid	300.0	29754
890-2553-11 MSD	BH-152 6'	Soluble	Solid	300.0	29754

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Job ID: 890-2553-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-142 5'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Lab Sample ID: 890-2553-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	29774	07/14/22 16:53	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29893	07/18/22 12:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29911	07/18/22 09:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29795	07/15/22 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29788	07/15/22 11:12	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	29754	07/14/22 12:47	SMC	XEN MID
Soluble	Analysis	300.0		1			29864	07/16/22 21:15	СН	XEN MID

Client Sample ID: BH-143 5' Lab Sample ID: 890-2553-2

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Matrix: Solid

Dil Initial Final Batch Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Lab **Analyst** Total/NA Prep 5035 5.01 g 5 mL 29774 07/14/22 16:53 MR XEN MID 07/18/22 12:48 8021B Total/NA Analysis 1 5 mL 5 mL 29893 MR XEN MID 07/19/22 09:14 Total/NA Total BTEX 30030 Analysis SM XEN MID 1 Total/NA Analysis 8015 NM 29911 07/18/22 09:27 SM XEN MID 29795 Total/NA 8015NM Prep 10.02 g 07/15/22 08:42 DM XEN MID Prep 10 mL Total/NA Analysis 8015B NM 29788 07/15/22 12:16 SM XEN MID Soluble DI Leach 5.02 g 50 mL 29754 07/14/22 12:47 SMC **XEN MID** Leach Soluble Analysis 300.0 29864 07/16/22 21:42 CH XEN MID

Client Sample ID: BH-144 5' Lab Sample ID: 890-2553-3 Date Collected: 07/12/22 00:00 **Matrix: Solid**

Date Received: 07/12/22 16:57

Dil Prepared Batch Batch Initial Final Batch Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 4.97 g 5 mL 29774 07/14/22 16:53 MR XEN MID Total/NA Analysis 8021B 5 mL 5 mL 29893 07/18/22 13:09 MR XEN MID 07/19/22 09:14 Total/NA Total BTEX 30030 SM XEN MID Analysis 1 Total/NA Analysis 8015 NM 29911 07/18/22 09:27 SM XEN MID Total/NA Prep 8015NM Prep 10.01 g 10 mL 29795 07/15/22 08:42 DM XEN MID Total/NA 8015B NM 29788 07/15/22 14:02 XEN MID Analysis 1 SM Soluble DI Leach 5.01 g 50 mL 29754 07/14/22 12:47 SMC XEN MID Leach Soluble Analysis 300.0 29864 07/16/22 21:52 СН XEN MID

Lab Sample ID: 890-2553-4 Client Sample ID: BH-145 5'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Γ	Datah	Datah		Dil	Initial	Final	Datah	Duamanad		
Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	29774	07/14/22 16:53	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29893	07/18/22 13:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID

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Matrix: Solid

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 890-2553-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-145 5'

Date Collected: 07/12/22 00:00

Lab Sample ID: 890-2553-4 Matrix: Solid

Date Received: 07/12/22 16:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			29911	07/18/22 09:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	29795	07/15/22 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29788	07/15/22 12:37	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29754	07/14/22 12:47	SMC	XEN MID
Soluble	Analysis	300.0		1			29864	07/16/22 22:01	CH	XEN MID

Client Sample ID: BH-146 5' Lab Sample ID: 890-2553-5

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	29774	07/14/22 16:53	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29893	07/18/22 13:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29911	07/18/22 09:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29795	07/15/22 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29788	07/15/22 12:58	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	29754	07/14/22 12:47	SMC	XEN MID
Soluble	Analysis	300.0		1			29864	07/16/22 22:10	CH	XEN MID

Client Sample ID: BH-147 6' Lab Sample ID: 890-2553-6

Date Collected: 07/12/22 00:00 **Matrix: Solid** Date Received: 07/12/22 16:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	29774	07/14/22 16:53	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29893	07/18/22 14:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29911	07/18/22 09:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29795	07/15/22 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29788	07/15/22 15:52	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	29754	07/14/22 12:47	SMC	XEN MID
Soluble	Analysis	300.0		1			29864	07/16/22 22:38	CH	XEN MID

Client Sample ID: BH-148 6' Lab Sample ID: 890-2553-7

Date Collected: 07/12/22 00:00 **Matrix: Solid** Date Received: 07/12/22 16:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	29774	07/14/22 16:53	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29893	07/18/22 14:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29911	07/18/22 09:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29795	07/15/22 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29788	07/15/22 14:24	SM	XEN MID

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Matrix: Solid

Released to Imaging: 9/1/2023 2:55:43 PM

Client: Tetra Tech, Inc. Job ID: 890-2553-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-148 6'

Lab Sample ID: 890-2553-7 Date Collected: 07/12/22 00:00 Matrix: Solid Date Received: 07/12/22 16:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	29754	07/14/22 12:47	SMC	XEN MID
Soluble	Analysis	300.0		1			29864	07/16/22 22:47	CH	XEN MID

Client Sample ID: BH-149 6' Lab Sample ID: 890-2553-8

Date Collected: 07/12/22 00:00 **Matrix: Solid**

Date Received: 07/12/22 16:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	29774	07/14/22 16:53	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29893	07/18/22 14:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29911	07/18/22 09:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	29795	07/15/22 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29788	07/15/22 17:38	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	29754	07/14/22 12:47	SMC	XEN MID
Soluble	Analysis	300.0		1			29864	07/16/22 22:56	CH	XEN MID

Client Sample ID: BH-150 6' Lab Sample ID: 890-2553-9

Date Collected: 07/12/22 00:00 **Matrix: Solid** Date Received: 07/12/22 16:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	29774	07/14/22 16:53	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29893	07/18/22 15:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29911	07/18/22 09:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	29795	07/15/22 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29788	07/15/22 17:17	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	29754	07/14/22 12:47	SMC	XEN MID
Soluble	Analysis	300.0		1			29864	07/16/22 23:05	CH	XEN MID

Client Sample ID: BH-151 6' Lab Sample ID: 890-2553-10

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	29774	07/14/22 16:53	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	29893	07/18/22 15:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29911	07/18/22 09:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	29795	07/15/22 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29788	07/15/22 16:56	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	29754	07/14/22 12:47	SMC	XEN MID
Soluble	Analysis	300.0		1			29864	07/16/22 23:15	CH	XEN MID

Eurofins Carlsbad

Matrix: Solid

Job ID: 890-2553-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-152 6'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Lab Sample ID: 890-2553-11 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	29947	07/18/22 13:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30015	07/19/22 17:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29911	07/18/22 09:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29795	07/15/22 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29788	07/15/22 18:42	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	29754	07/14/22 12:47	SMC	XEN MID
Soluble	Analysis	300.0		1			29864	07/16/22 23:24	CH	XEN MID

Client Sample ID: BH-153 6' Lab Sample ID: 890-2553-12

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 29947 Total/NA 4.99 g 5 mL 07/18/22 13:40 MR XEN MID 8021B Total/NA 5 mL 30015 07/19/22 17:57 XEN MID Analysis 1 5 mL MR Total/NA Total BTEX 30030 07/19/22 09:14 XEN MID Analysis 1 SM Total/NA Analysis 8015 NM 29911 07/18/22 09:27 SM XEN MID Total/NA 29795 07/15/22 08:42 XEN MID Prep 8015NM Prep 10.02 g 10 mL DM Total/NA Analysis 8015B NM 29788 07/15/22 15:06 SM XEN MID Soluble 29754 07/14/22 12:47 XEN MID Leach DI Leach 5.02 g 50 mL SMC Soluble Analysis 300.0 1 29864 07/16/22 23:51 СН XEN MID

Lab Sample ID: 890-2553-13 Client Sample ID: BH-154 6' Date Collected: 07/12/22 00:00 **Matrix: Solid**

Date Received: 07/12/22 16:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	29947	07/18/22 13:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30015	07/19/22 18:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29911	07/18/22 09:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29795	07/15/22 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29788	07/15/22 13:41	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	29754	07/14/22 12:47	SMC	XEN MID
Soluble	Analysis	300.0		1			29864	07/17/22 00:01	CH	XEN MID

Client Sample ID: BH-155 6' Lab Sample ID: 890-2553-14 Date Collected: 07/12/22 00:00

Date Received: 07/12/22 16:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	29947	07/18/22 13:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30015	07/19/22 18:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID

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Matrix: Solid

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2553-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-155 6'

Date Collected: 07/12/22 00:00
Date Received: 07/12/22 16:57

Lab Sample ID: 890-2553-14

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 8015 NM Analysis 29911 07/18/22 09:27 SM XEN MID Total/NA Prep 8015NM Prep 10.01 g 10 mL 29795 07/15/22 08:42 DM XEN MID Total/NA Analysis 8015B NM 29788 07/15/22 14:45 SM XEN MID 1 Soluble 29754 07/14/22 12:47 SMC XEN MID Leach DI Leach 4.95 g 50 mL 300.0 29864 07/17/22 00:29 Soluble Analysis 1 CH XEN MID

Client Sample ID: BH-156 6' Lab Sample ID: 890-2553-15

Date Collected: 07/12/22 00:00 Matrix: Solid

Date Received: 07/12/22 16:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	29947	07/18/22 13:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30015	07/19/22 18:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29911	07/18/22 09:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29795	07/15/22 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29788	07/15/22 17:59	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29754	07/14/22 12:47	SMC	XEN MID
Soluble	Analysis	300.0		1			29864	07/17/22 00:38	CH	XEN MID

Client Sample ID: BH-157 6'

Date Collected: 07/12/22 00:00

Lab Sample ID: 890-2553-16

Matrix: Solid

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	29947	07/18/22 13:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30015	07/19/22 19:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29911	07/18/22 09:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	29795	07/15/22 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29788	07/15/22 19:03	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	29754	07/14/22 12:47	SMC	XEN MID
Soluble	Analysis	300.0		1			29864	07/17/22 00:47	CH	XEN MID

Client Sample ID: BH-158 6' Lab Sample ID: 890-2553-17

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	29947	07/18/22 13:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30015	07/19/22 20:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29911	07/18/22 09:27	SM	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		5	10.00 g	10 mL	29795 29788	07/15/22 08:42 07/15/22 13:19	DM SM	XEN MID XEN MID

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Matrix: Solid

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Client: Tetra Tech, Inc.

Job ID: 890-2553-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-158 6'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57 Lab Sample ID: 890-2553-17

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	29754	07/14/22 12:47	SMC	XEN MID
Soluble	Analysis	300.0		1			29864	07/17/22 00:56	CH	XEN MID

Client Sample ID: SW-50 0-6'

Lab Sample ID: 890-2553-18

Date Collected: 07/12/22 00:00 Matrix: Solid

Date Received: 07/12/22 16:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	29947	07/18/22 13:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30015	07/19/22 19:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29911	07/18/22 09:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	29795	07/15/22 08:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29788	07/15/22 18:21	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	29754	07/14/22 12:47	SMC	XEN MID
Soluble	Analysis	300.0		1			29864	07/17/22 01:06	CH	XEN MID

Client Sample ID: SW-51 0-6'

Lab Sample ID: 890-2553-19

Date Collected: 07/12/22 00:00 Matrix: Solid
Date Received: 07/12/22 16:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	29947	07/18/22 13:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30015	07/19/22 20:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29911	07/18/22 09:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	29795	07/15/22 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29788	07/15/22 19:24	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	29754	07/14/22 12:47	SMC	XEN MID
Soluble	Analysis	300.0		1			29864	07/17/22 01:15	CH	XEN MID

Client Sample ID: SW-52 0-6'

Lab Sample ID: 890-2553-20

Date Collected: 07/12/22 00:00 Matrix: Solid
Date Received: 07/12/22 16:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	29947	07/18/22 13:40	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	30015	07/19/22 20:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID
Total/NA	Analysis	8015 NM		1			29911	07/18/22 09:27	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	29795	07/15/22 08:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29788	07/15/22 16:13	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	29754	07/14/22 12:47	SMC	XEN MID
Soluble	Analysis	300.0		1			29864	07/17/22 01:24	CH	XEN MID

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Lab Chronicle

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-2553-1 SDG: Lea County NM

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Job ID: 890-2553-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-24	06-30-23
The following analytes	are included in this report, bu	it the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for w
the agency does not of	fer certification.	•	, , ,	.,
the agency does not of Analysis Method	fer certification . Prep Method	Matrix	Analyte	-,,,
9 ,		Matrix Solid	Analyte Total TPH	

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Method Summary

Client: Tetra Tech, Inc.

Job ID: 890-2553-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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BH-157 6'

BH-158 6'

SW-50 0-6'

SW-51 0-6'

SW-52 0-6'

Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

890-2553-16

890-2553-17

890-2553-18

890-2553-19

890-2553-20

Job ID: 890-2553-1 SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2553-1	BH-142 5'	Solid	07/12/22 00:00	07/12/22 16:57	5'
890-2553-2	BH-143 5'	Solid	07/12/22 00:00	07/12/22 16:57	5'
890-2553-3	BH-144 5'	Solid	07/12/22 00:00	07/12/22 16:57	5'
890-2553-4	BH-145 5'	Solid	07/12/22 00:00	07/12/22 16:57	5'
890-2553-5	BH-146 5'	Solid	07/12/22 00:00	07/12/22 16:57	5'
890-2553-6	BH-147 6'	Solid	07/12/22 00:00	07/12/22 16:57	6'
890-2553-7	BH-148 6'	Solid	07/12/22 00:00	07/12/22 16:57	6'
890-2553-8	BH-149 6'	Solid	07/12/22 00:00	07/12/22 16:57	6'
890-2553-9	BH-150 6'	Solid	07/12/22 00:00	07/12/22 16:57	6'
890-2553-10	BH-151 6'	Solid	07/12/22 00:00	07/12/22 16:57	6'
890-2553-11	BH-152 6'	Solid	07/12/22 00:00	07/12/22 16:57	6'
890-2553-12	BH-153 6'	Solid	07/12/22 00:00	07/12/22 16:57	6'
890-2553-13	BH-154 6'	Solid	07/12/22 00:00	07/12/22 16:57	6'
890-2553-14	BH-155 6'	Solid	07/12/22 00:00	07/12/22 16:57	6'
890-2553-15	BH-156 6'	Solid	07/12/22 00:00	07/12/22 16:57	6'

Solid

Solid

Solid

Solid

Solid

07/12/22 00:00

07/12/22 00:00

07/12/22 00:00

07/12/22 00:00

07/12/22 00:00

07/12/22 16:57

07/12/22 16:57

07/12/22 16:57

07/12/22 16:57

07/12/22 16:57 0' - 6'

6'

6'

0' - 6'

0' - 6'

3

4

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t Name: Yelman Nates Solutions Ct Location: ty, state) Project a Project	SAMPLING	MATRIX	PRESERVATIV METHOD	h.com 30	FILTERED (Y/N)	5 (Ext to C35) (GRO - DRO - ORO - MRO)	Ag As Ba Cd Cr Pb Se Hg Ag As Ba Cd Cr Pb Se Hg	or S			NO. TDS Transfer liet in the mistary feets after the day of the part of the pa	Sir y (see allacited list)	
ret Name: Vermian Nater Solutions Diet Location: Inty, state) Lea County, NM Project a Projec	SAMPLING	MATRIX	PRESERVATIV METHOD	h.com 30	77	5 (Ext to C35) (GRO - DRO - ORO - MRO)	Ag As Ba Cd Cr Pb Se Hg Ag As Ba Cd Cr Pb Se Hg	or S	ecify (524)	/ Metho	od No.	Sir y (see allacited list)	
SAMPLE IDENTIFICATION Claim Project is	SAMPLING	MATRIX	PRESERVATIV METHOD	h.com 30	77	5 (Ext to C35) (GRO - DRO - ORO - MRO)	kg As Ba Cd Cr Pb Se Hg Ag As Ba Cd Cr Pb Se Hg	atiles	1 624 270C/625			Sir y (see allacited list)	
re to to the county, NM se to Parmian Water Solutions - Dusting Laboratory: Eurofins Xenco Sampler renta: SAMPLE IDENTIFICATION BH-142 (5') BH-143 (5') 7/12	SAMPLING	MD Intu	PRESERVATIV METHOD	30	77	5 (Ext to C35) (GRO - DRO - ORO -	Ag As Ba Cd Cr Pb Se Ag As Ba Cd Cr Pb Se	latiles	60B / 624 /ol. 8270C/625	9	ite TDS homistry (see affached liet)	ance	
Sampler Sam	SAMPLING 020	Intu	PRESERVATIV METHOD	E I T	D (Y/N)	5 (Ext to C35) (GRO - DRO - ORO -	Ag As Ba Cd Cr Pb Se Ag As Ba Cd Cr Pb Se	stries	260B / 624 /ol. 8270C/625	8	ite TDS	ance	
Sampler Sampler Sampler Sampler Sampler SAMPLE IDENTIFICATION	SAMPLING 020	MATRIX	PRESERVATIVI METHOD	TAINERS	D (Y/N)	5 (Ext to C35) (GRO - DRO - ORO -	Ag As Ba Cd Cr Pb Se Ag As Ba Cd Cr Pb Se	slatiles	260B / 624 /ol. 8270C/625	φ.	ite TDS	ance	
SAMPLE IDENTIFICATION WEAR 202 WILLY 13H-142 (5') 7172 13H-143 (5') 71121	020 L		METHOD	TAINERS	D (Y/N)	5 (Ext to C35) (GRO - DRO -	Ag As Ba Cd (solatiles	260B / 624 Jol. 8270C/625	φ.	ite TDS	ance ance	
SAMPLE IDENTIFICATION YEAR: 202 BH-142 (5') 7172 BH-143 (5') 71121	020 L		METHOD	TAINERS	D (Y/N)	5 (Ext to	Ag As Ba	siatiles	60B / 624 /ol. 8270C/	9	te TD:	ance	
SAMPLE IDENTIFICATION YEAR 202 B #	020 L		METHOD	TAINERS	D (Y/N)	S (Ext to	Ag As	olatiles	SeoB Aot. B	φ	의 원	8 8	
SAMPLE IDENTIFICATION # 5 BH-142 (5') 717 BH-143 (5') 71121	TIME	ATER	. 5	TAINE	0	ו בו מו מ			122	8 8	Sulfate		
BH-142 (5') 7/12 BH-143 (5') 7/121		OF OF	اها ای		<u> </u>	TX1005 8015M (Metals /	Volatiles Semi Vol	Vol. 8	8082 /		Cation	
BH-142 (5') 7/12 BH-143 (5') 7/121			HCL HNO ₃	S S	LTEF	PH T	FOLD A	CCLP S	GC/MS Vol.	OCB's 8082 / 608 NORM	Chloride	Anion/Cation Balance	PIOH
BH-143 (5') 7/121		N/		*	-	N X					N		
BH-1414 (6')		X	X			XX			П		X		
		X	X	\perp	1	NX	4		11		141	+++	+
BH-145 (5) 7/121		M			_{2		++-	\sqcup	+	+++	1	+++	+++
BH-146 (5') 7/121		X		\dashv	-			H +	++-		M	+++	+++
1117 (P) 71121		X			-		-	+++	+		171 	+++	++-1
BH-148 (6) 7112 BH-148 (6) 7112		1	1		- K		++		++		 	+++	+
15H-150 (1') 71121		 2			- K		++	H	+		 	+++	+++
BH-151 (6) 7/12		 			-	XX			+				++1
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est h 7/12/22 1657 ()	In (M	1	13.20	2 165	7	ONL		M	STA	NDARD			
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Analysis Re	equest of Chain of Custody Record												Page	-/-	01	1 0
TŁ	Tetra Tech, Inc.		M	W Wall Street, Ste 100 idland, Texas 79705 [et (432) 682-4559 [ax (432) 682-3846												
Client Name:	Permian Water Solution	Site Manager:	(/-	ONZONES								EQUE				
Project Name:		1 100	11 0	01120010)	1.	(C	ircle	or	Spe	cify	Met	hod	No.)		
8	Laiser SWD										$\parallel \parallel$					
Project Location (county, state)	Lea County, NM	Project #: 2124-		02230										(3)		
Invoice to:	amian Water Solutions	- Dustu	Mc.	Inturff			(S)	5 P						pag		
Receiving Labora	etone (Sampler Signature:	1_	1		1	- O	Se H						attac		
Comments:	Furotins Xenco	1 YW	71-	<u></u>		8260B	- o	2 5 5			625			(36)		
		,				X 82	TPH 8015M (GRO - DRO - ORO - MRO) PAH 8270C	otal Metals Ag As Ba Cd Cr Pb Se Hg CLP Metals Ag As Ba Cd Cr Pb Se Hg		18	GC/MS Semi. Vol. 8270C/625			Chloride Sulfate TDS General Water Chemistry (see affached list) Arien/Cation Balance		
		SAMPLING	MATRI	X PRESERVATIVE	ω 2	BTEX 8021B BTEX 82 TPH TX1005 (Exito C35)	88	As Ba	atiles	900	ol. 8.	8		Chloride Sulfate General Water Chemis Anion/Cation Balance		
		YEAR: 2020	1		# CONTAINERS FILTERED (Y/N)	21B	NO OC	als Ag	FCLP Volatiles FCLP Semi Volatiles	1 5	mi.	82 / 6	6 1	Sul Vater Ijon B		
LAB#	SAMPLE IDENTIFICATION		E	6 9	NTA ERE	BTEX 8021B TPH TX1005	8015M 8270C	Meta Met	Vol	100	AS Se	s 80	(Asb	Chloride General V Anjon/Cat		
(LAB USE)		DATE	WATER	HCL HNO ₃ ICE None	# CC	BTE	PAH	Total	길달	2	9 8	PCB's NORM	P. R	Gen Gen		무
	BH-152(16)	7/12/22	X	N N		1	X				Ш			MT.	1	
	BH-153 (b)	7/12/22	X			M	X		\perp	\sqcup	Ш			M	11	
	BH-154 (G)	7112122	X	1141		N		\perp	_	\sqcup	\perp		Н	Ä	+	++
	BH-165 (b)	7/12/2	X			X	X	-	-	+	+	+	1	<u> </u>	+	+
	BH-156 (6)	7/12/72	X	$++\beta+$		X		+	+	++	+		H		++	+
	BH-157 (b')	7/12/22		 [3] 		<u> </u>	X		+	╁┼	+		H	X X X X X X X X X X	╁┼	++-
	BH-158 (6)	7/12/22	X	11811		1	X		+	++	+		\vdash	KIT	++	++-
	54-50(0-6)	7/12/72	X	++			X		+	+	+		\vdash	7	++	++-
	5W-51 (0-b') 5W-52 (0-b')	7112122	1	 		N	\(\)		+	++	+		\vdash	1	++	+
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Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number

SDG Number

Job Number: 890-2553-1 SDG Number: Lea County NM

Login Number: 2553 List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2553-1 SDG Number: Lea County NM

List Source: Eurofins Midland

List Source: Euronns Midiand
List Creation: 07/14/22 10:49 AM

Login Number: 2553 List Number: 2

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
ls the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

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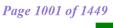
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<6mm (1/4").





ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2689-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Kaiser SWD

Revision: 1

For:

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Clair Gonzales

RAMPR

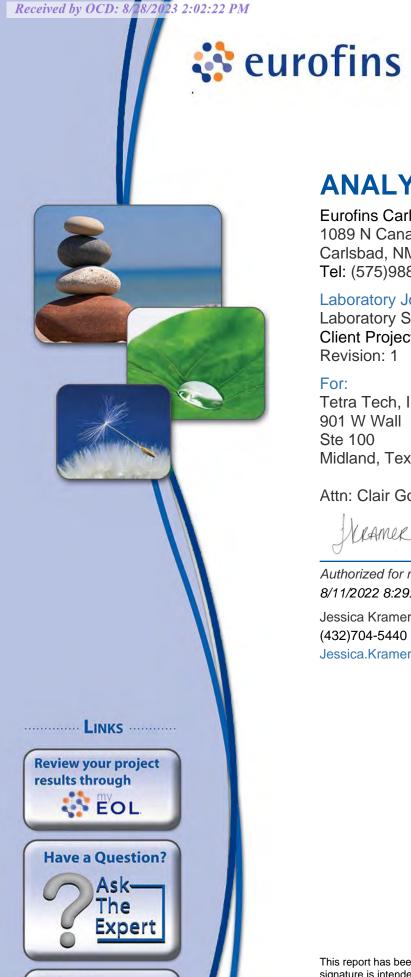
Authorized for release by: 8/11/2022 8:29:02 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

Results relate only to the items tested and the sample(s) as received by the laboratory.



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www.eurofinsus.com/Env

Released to Imaging: 9/1/2023 2:55:43 PM

Client: Tetra Tech, Inc.

Laboratory Job ID: 890-2689-1

Project/Site: Kaiser SWD

SDG: Lea County NM

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Definitions/Glossary

Client: Tetra Tech, Inc.

Job ID: 890-2689-1

Project/Site: Kaiser SWD

SDG: Lea County NM

2

Qualifiers

GC VOA

 Qualifier
 Qualifier Description

 F1
 MS and/or MSD recovery exceeds control limits.

 S1+
 Surrogate recovery exceeds control limits, high bits.

S1+ Surrogate recovery exceeds control limits, high biased.
U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-2689-1

SDG: Lea County NM

Job ID: 890-2689-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2689-1

REVISION

The report being provided is a revision of the original report sent on 8/8/2022. The report (revision 1) is being revised due to Per client email, requesting sample ID edit.

Report revision history

Receipt

The samples were received on 7/29/2022 2:06 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 15.2°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-31669 and analytical batch 880-31654 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-159 (8') (890-2689-6) and BH-160 (8') (890-2689-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-31669 and analytical batch 880-31654 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

5

6

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1 1

4.0

Client: Tetra Tech, Inc. Job ID: 890-2689-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-118 (13')

Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06 Lab Sample ID: 890-2689-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/05/22 11:19	08/06/22 01:44	1
Toluene	< 0.00202	U	0.00202		mg/Kg		08/05/22 11:19	08/06/22 01:44	1
Ethylbenzene	< 0.00202	U	0.00202		mg/Kg		08/05/22 11:19	08/06/22 01:44	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/05/22 11:19	08/06/22 01:44	1
o-Xylene	< 0.00202	U	0.00202		mg/Kg		08/05/22 11:19	08/06/22 01:44	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/05/22 11:19	08/06/22 01:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				08/05/22 11:19	08/06/22 01:44	1
1,4-Difluorobenzene (Surr)	96		70 - 130				08/05/22 11:19	08/06/22 01:44	1
The standard of the standard o	I BTEX Calcula	tion							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			08/08/22 14:27	1
_ Method: 8015 NM - Diesel	Range Organic	s (DRO) (0	SC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	247		49.9		mg/Kg			08/04/22 09:51	1
- Method: 8015B NM - Diese	I Range Organ	ics (DRO)	(GC)						
Analyte	•	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac

<49.9 U 08/03/22 09:25 08/03/22 22:32 Gasoline Range Organics 49.9 mg/Kg (GRO)-C6-C10 **Diesel Range Organics (Over** 247 49.9 mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 92 70 - 130 08/03/22 09:25 08/03/22 22:32 94 70 - 130 o-Terphenyl

Method: 300.0 - Anions	s, Ion Chromatography - Solul	ole					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	263	5.03	ma/Ka			08/06/22 06:13	1

Client Sample ID: BH-119 (10')

Date Collected: 07/26/22 12:00

Released to Imaging: 9/1/2023 2:55:43 PM

Date Received: 07/29/22 14:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:19	08/06/22 00:22	1
Toluene	< 0.00200	U	0.00200		mg/Kg		08/05/22 11:19	08/06/22 00:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:19	08/06/22 00:22	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/05/22 11:19	08/06/22 00:22	1
o-Xylene	< 0.00200	U	0.00200		mg/Kg		08/05/22 11:19	08/06/22 00:22	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/05/22 11:19	08/06/22 00:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				08/05/22 11:19	08/06/22 00:22	1
1,4-Difluorobenzene (Surr)	92		70 - 130				08/05/22 11:19	08/06/22 00:22	1

Lab Sample ID: 890-2689-2

Eurofins Carlsbad

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-2689-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-119 (10')

Method: Total BTEX - Total BTEX Calculation

Lab Sample ID: 890-2689-2 Date Collected: 07/26/22 12:00

%Recovery Qualifier

99

113

Matrix: Solid

Analyzed

Prepared

08/03/22 09:25 08/03/22 20:23

Date Received: 07/29/22 14:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/08/22 14:27	1
Method: 8015 NM - Diesel Rang	je Organic	s (DRO) (G	C)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/04/22 09:51	1
	nge Organi	ics (DRO) (GC)						
		ine (DDO) (00)						
Method: 8015B NM - Diesel Rar Analyte	•	ics (DRO) (0 Qualifier	GC)	MDL	Unit	D	Prepared	Analyzed	Dil Fac
: Method: 8015B NM - Diesel Rar	•	Qualifier	•	MDL	Unit mg/Kg	<u>D</u>	Prepared 08/03/22 09:25		Dil Fac
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics	Result	Qualifier	RL	MDL		<u>D</u>			Dil Fac
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10	Result	Qualifier U	RL	MDL	mg/Kg	<u>D</u>		08/03/22 20:23	Dil Fac
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics	Result <49.9	Qualifier U	RL 49.9	MDL		<u>D</u>	08/03/22 09:25	08/03/22 20:23	Dil Fac

Method: 300.0 - Anions, Ion Ch	nromatogra	phy - Solu	ble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	382		25.1		mg/Kg			08/06/22 06:41	5

Limits

70 - 130

70 - 130

Lab Sample ID: 890-2689-3 Client Sample ID: BH-158 (8') Date Collected: 07/26/22 12:00 **Matrix: Solid**

Date Received: 07/29/22 14:06

Surrogate

o-Terphenyl

1-Chlorooctane

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/05/22 11:19	08/06/22 00:42	1
Toluene	< 0.00199	U	0.00199		mg/Kg		08/05/22 11:19	08/06/22 00:42	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		08/05/22 11:19	08/06/22 00:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/05/22 11:19	08/06/22 00:42	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		08/05/22 11:19	08/06/22 00:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/05/22 11:19	08/06/22 00:42	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130				08/05/22 11:19	08/06/22 00:42	
1 1 Differenchemana (Cerum)	93		70 - 130				08/05/22 11:19	08/06/22 00:42	
1,4-Difluorobenzene (Surr) : Method: Total BTEX - Tota	l BTEX Calcula								
	l BTEX Calcula	Qualifier	RL 0.00398	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/08/22 14:27	Dil Fac
Method: Total BTEX - Tota Analyte Total BTEX Method: 8015 NM - Diesel	I BTEX Calcula Result <0.00398 Range Organic	Qualifier U s (DRO) (0	RL 0.00398		mg/Kg	=	Prepared	Analyzed 08/08/22 14:27	1
Method: Total BTEX - Tota Analyte Total BTEX Method: 8015 NM - Diesel Analyte	I BTEX Calcula Result <0.00398 Range Organic Result	Qualifier U s (DRO) (C	RL		mg/Kg Unit	<u>D</u>		Analyzed 08/08/22 14:27 Analyzed	1
Method: Total BTEX - Tota Analyte Total BTEX Method: 8015 NM - Diesel Analyte	I BTEX Calcula Result <0.00398 Range Organic	Qualifier U s (DRO) (C	RL 0.00398		mg/Kg	=	Prepared	Analyzed 08/08/22 14:27	
Method: Total BTEX - Tota Analyte Total BTEX	I BTEX Calcula Result <0.00398 Range Organic Result <50.0 Range Organic	Qualifier U s (DRO) (C Qualifier U	RL 0.00398	MDL	mg/Kg Unit mg/Kg	=	Prepared	Analyzed 08/08/22 14:27 Analyzed	Dil Fac
Method: Total BTEX - Tota Analyte Total BTEX Method: 8015 NM - Diesel Analyte Total TPH	I BTEX Calcula Result <0.00398 Range Organic Result <50.0 Range Organic	Qualifier U S (DRO) (O Qualifier U	RL 0.00398	MDL	mg/Kg Unit	=	Prepared	Analyzed 08/08/22 14:27 Analyzed	Dil Fac
Method: Total BTEX - Tota Analyte Total BTEX Method: 8015 NM - Diesel Analyte Total TPH Method: 8015B NM - Diese	I BTEX Calcula Result <0.00398 Range Organic Result <50.0 Range Organic	Qualifier U S (DRO) (C Qualifier U ics (DRO) Qualifier	RL 0.00398 GC) RL 50.0	MDL	mg/Kg Unit mg/Kg	<u></u> <u>D</u>	Prepared Prepared	Analyzed 08/08/22 14:27 Analyzed 08/04/22 09:51	Dil Fa

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Dil Fac

Job ID: 890-2689-1 SDG: Lea County NM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Client Sample ID: BH-158 (8') Lab Sample ID: 890-2689-3

Date Collected: 07/26/22 12:00 **Matrix: Solid** Date Received: 07/29/22 14:06

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL Un	nit D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg	g/Kg	08/03/22 09:25	08/03/22 23:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130			08/03/22 09:25	08/03/22 23:57	1
o-Terphenyl	88		70 - 130			08/03/22 09:25	08/03/22 23:57	1

Method: 300.0 - Anions, Ion Cl	nromatography - Solu	ble					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.8	5.00	mg/Kg			08/06/22 06:50	1

Client Sample ID: SW-50 (0-6')

Lab Sample ID: 890-2689-4 Date Collected: 07/26/22 12:00 Matrix: Solid Date Received: 07/29/22 14:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/05/22 11:19	08/06/22 01:03	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/05/22 11:19	08/06/22 01:03	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/05/22 11:19	08/06/22 01:03	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/05/22 11:19	08/06/22 01:03	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/05/22 11:19	08/06/22 01:03	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/05/22 11:19	08/06/22 01:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				08/05/22 11:19	08/06/22 01:03	1
1,4-Difluorobenzene (Surr)	89		70 - 130				08/05/22 11:19	08/06/22 01:03	1

Method: Total BTEX - Total BT	EX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/08/22 14:27	1

Method: 8015 NM - Diesel Ran	ge Organic	s (DRO) (G	iC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/04/22 09:51	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/03/22 09:25	08/04/22 00:58	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/03/22 09:25	08/04/22 00:58	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/03/22 09:25	08/04/22 00:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				08/03/22 09:25	08/04/22 00:58	1
o-Terphenyl	96		70 - 130				08/03/22 00:25	08/04/22 00:58	1

Method: 300.0 - Anions, Ion Cl	hromatogra	phy - Solu	ble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52.0		4.97		mg/Kg			08/06/22 07:00	1

Client: Tetra Tech, Inc. Job ID: 890-2689-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-51 (0-6') Lab Sample ID: 890-2689-5

Date Collected: 07/26/22 12:00 **Matrix: Solid** Date Received: 07/29/22 14:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/05/22 11:19	08/06/22 01:23	
Toluene	<0.00201	U	0.00201		mg/Kg		08/05/22 11:19	08/06/22 01:23	•
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/05/22 11:19	08/06/22 01:23	•
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/05/22 11:19	08/06/22 01:23	
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/05/22 11:19	08/06/22 01:23	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/05/22 11:19	08/06/22 01:23	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	111		70 - 130				08/05/22 11:19	08/06/22 01:23	
1,4-Difluorobenzene (Surr)	91		70 - 130				08/05/22 11:19	08/06/22 01:23	
Method: Total BTEX - Total B	ΓEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/08/22 14:27	
Method: 8015 NM - Diesel Rar	nge Organic	s (DRO) (G	SC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0		mg/Kg			08/04/22 09:51	
Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/03/22 09:25	08/04/22 01:18	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/22 09:25	08/04/22 01:18	
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/22 09:25	08/04/22 01:18	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	84		70 - 130				08/03/22 09:25	08/04/22 01:18	
o-Terphenyl	91		70 - 130				08/03/22 09:25	08/04/22 01:18	
Method: 300.0 - Anions, Ion C	hromatogra	phy - Solu	ble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	201		4.97		mg/Kg	_		08/06/22 07:09	

Chloride mg/Kg 08/06/22 07:09

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Date Collected: 07/26/22 12:00 **ANALYSIS TABLE** Date Received: 07/29/22 14:06

Client Sample ID: BH-159 (8')

Released to Imaging: 9/1/2023 2:55:43 PM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:19	08/06/22 02:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:19	08/06/22 02:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:19	08/06/22 02:46	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/05/22 11:19	08/06/22 02:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:19	08/06/22 02:46	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/05/22 11:19	08/06/22 02:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130				08/05/22 11:19	08/06/22 02:46	1
1,4-Difluorobenzene (Surr)	91		70 - 130				08/05/22 11:19	08/06/22 02:46	1

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Matrix: Solid

Lab Sample ID: 890-2689-6

Client Sample ID: BH-159 (8')

Method: Total BTEX - Total BTEX Calculation

Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06 REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-2689-6

Matrix: Solid

Analyte Total BTEX	<0.00401	Qualifier U	RL 0.00401	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/08/22 14:27	Dil Fac
Method: 8015 NM - Diesel Ran	ge Organic	s (DRO) (0	SC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	58.9		50.0		mg/Kg			08/04/22 09:51	1
Method: 8015B NM - Diesel Ra			• •	MDI	11	_	Danasasad	Anabasad	D., E
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/03/22 09:25	08/03/22 22:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/22 09:25	08/03/22 22:53	1

50.0 08/03/22 09:25 08/03/22 22:53 **OII Range Organics (Over** 58.9 mg/Kg C28-C36) %Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 1-Chlorooctane 70 - 130 08/03/22 09:25 08/03/22 22:53 87 91 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography - SolubleAnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FacChloride58125.3mg/Kg08/06/22 07:365

Client Sample ID: BH-160 (8')

Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06 Lab Sample ID: 890-2689-7

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:19	08/06/22 03:06	1
Toluene	< 0.00200	U	0.00200		mg/Kg		08/05/22 11:19	08/06/22 03:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:19	08/06/22 03:06	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/05/22 11:19	08/06/22 03:06	1
o-Xylene	< 0.00200	U	0.00200		mg/Kg		08/05/22 11:19	08/06/22 03:06	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/05/22 11:19	08/06/22 03:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130				08/05/22 11:19	08/06/22 03:06	1
1,4-Difluorobenzene (Surr)	89		70 - 130				08/05/22 11:19	08/06/22 03:06	1
Method: Total BTEX - Total	BTEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/08/22 14:27	1
Method: 8015 NM - Diesel I	Range Organic	s (DRO) (G	SC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	217		50.0		mg/Kg			08/04/22 09:51	1
Method: 8015B NM - Diese	l Range Organ	ics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/03/22 09:25	08/03/22 21:49	

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(GRO)-C6-C10

Job ID: 890-2689-1 SDG: Lea County NM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Client Sample ID: BH-160 (8') Date Collected: 07/26/22 12:00

Lab Sample ID: 890-2689-7

Matrix: Solid

Date Received: 07/29/22 14:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	133		50.0		mg/Kg		08/03/22 09:25	08/03/22 21:49	1
Oll Range Organics (Over C28-C36)	83.6		50.0		mg/Kg		08/03/22 09:25	08/03/22 21:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				08/03/22 09:25	08/03/22 21:49	1
o-Terphenyl	91		70 - 130				08/03/22 09:25	08/03/22 21:49	1
Method: 300.0 - Anions, Ion	Chromatogra	ıphy - Solι	ıble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH-161 (8') Lab Sample ID: 890-2689-8 Date Collected: 07/26/22 12:00 Matrix: Solid

Date Received: 07/29/22 14:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/05/22 11:19	08/06/22 03:27	1
Toluene	< 0.00199	U	0.00199		mg/Kg		08/05/22 11:19	08/06/22 03:27	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		08/05/22 11:19	08/06/22 03:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/05/22 11:19	08/06/22 03:27	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		08/05/22 11:19	08/06/22 03:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/05/22 11:19	08/06/22 03:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				08/05/22 11:19	08/06/22 03:27	1
1,4-Difluorobenzene (Surr)	77		70 - 130				08/05/22 11:19	08/06/22 03:27	1

Method: Total BTEX - Total E Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/08/22 14:27	1
Method: 8015 NM - Diesel Ra	ange Organic	s (DRO) (G	SC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	218		49.9		mg/Kg			08/04/22 09:51	1
Method: 8015B NM - Diesel F Analyte		ics (DRO) Qualifier	(GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics	Result <49.9		49.9	MDL	mg/Kg	D	Prepared 08/03/22 09:25	Analyzed 08/03/22 22:11	Dil Fac
(GRO)-C6-C10									
Diesel Range Organics (Over C10-C28)	147		49.9		mg/Kg		08/03/22 09:25	08/03/22 22:11	1
Oll Range Organics (Over C28-C36)	71.4		49.9		mg/Kg		08/03/22 09:25	08/03/22 22:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				08/03/22 09:25	08/03/22 22:11	1

Client Sample ID: BH-161 (8')

Lab Sample ID: 890-2689-8

Date Collected: 07/26/22 12:00 Matrix: Solid
Date Received: 07/29/22 14:06

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	515		25.0		mg/Kg			08/06/22 07:55	5

Client Sample ID: BH-162 (8')
Date Collected: 07/26/22 12:00

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ANALYSIS TABLE

Lab Sample ID: 890-2689-9
Matrix: Solid

Date Received: 07/29/22 14:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/05/22 11:19	08/06/22 02:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/05/22 11:19	08/06/22 02:05	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		08/05/22 11:19	08/06/22 02:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/05/22 11:19	08/06/22 02:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/05/22 11:19	08/06/22 02:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/05/22 11:19	08/06/22 02:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				08/05/22 11:19	08/06/22 02:05	1
1,4-Difluorobenzene (Surr)	87		70 - 130				08/05/22 11:19	08/06/22 02:05	1

Method: Total BTEX - Total BTEX Calculation										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Total BTEX	<0.00398	U	0.00398		mg/Kg			08/08/22 14:27	1
	_									

Method. od 15 MM - Diesei Kang	je Organics	ט) (טאט) פ	C)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.9	U	49.9		mg/Kg			08/04/22 09:51	1	

Method: 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/03/22 09:25	08/04/22 00:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/03/22 09:25	08/04/22 00:18	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/03/22 09:25	08/04/22 00:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				08/03/22 09:25	08/04/22 00:18	1
a Tambanul	0.4		70 120				00/02/22 00:25	00/04/00 00:40	1

o-Terphenyl	94		70 - 130				08/03/22 09:25	08/04/22 00:18	1
Method: 300.0 - Anions, Ion Ch	•								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	106		24.9		mg/Kg			08/06/22 08:04	5

Client Sample ID: BH-163 (8')

Date Collected: 07/26/22 12:00

Date Received: 07/29/22 14:06

Lab Sample ID: 890-2689-10

Matrix: Solid

Method: 8021B - Volatile Org	anic Compo	unds (GC)						
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/05/22 11:19	08/06/22 02:25	1
Toluene	< 0.00199	U	0.00199	mg/Kg		08/05/22 11:19	08/06/22 02:25	1

0.00199

mg/Kg

<0.00199 U

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08/05/22 11:19 08/06/22 02:25

Ethylbenzene

Client Sample ID: BH-163 (8') Lab Sample ID: 890-2689-10

Date Collected: 07/26/22 12:00 **Matrix: Solid** Date Received: 07/29/22 14:06

Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00398	U	0.00398		mg/Kg		08/05/22 11:19	08/06/22 02:25	1
<0.00199	U	0.00199		mg/Kg		08/05/22 11:19	08/06/22 02:25	1
<0.00398	U	0.00398		mg/Kg		08/05/22 11:19	08/06/22 02:25	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
122		70 - 130				08/05/22 11:19	08/06/22 02:25	1
82		70 - 130				08/05/22 11:19	08/06/22 02:25	1
FX Calcula	tion							
		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00398	U	0.00398		mg/Kg			08/08/22 14:27	1
ige Organic	s (DRO) (G	C)						
•		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<50.0	U	50.0		mg/Kg			08/04/22 09:51	1
ange Organi	ics (DRO)	(GC)						
	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Qualifier	RL 50.0	MDL		<u>D</u>	Prepared 08/03/22 09:25	Analyzed 08/03/22 23:37	Dil Fac
Result	Qualifier		MDL	mg/Kg	<u>D</u>			Dil Fac
Result	Qualifier U		MDL		<u>D</u>		08/03/22 23:37	Dil Fac
<50.0	Qualifier U	50.0	MDL	mg/Kg	<u>D</u>	08/03/22 09:25	08/03/22 23:37	1
<50.0	Qualifier U	50.0	MDL	mg/Kg	<u> </u>	08/03/22 09:25 08/03/22 09:25	08/03/22 23:37	1
	<0.00398 <0.00199 <0.00398 **Recovery 122 82 **EX Calcula Result <0.00398 **ge Organic Result <50.0	<0.00398 U <0.00199 U <0.00398 U	<0.00398	<0.00398	<0.00398	County C	<0.00398	<0.00398 U 0.00398 mg/Kg 08/05/22 11:19 08/06/22 02:25 <0.00199

_							
Method: 300.0 - Anions, Ion Ch	nromatography - Solul	ble					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	107	5.02	mg/Kg			08/06/22 08:13	1

70 - 130

70 - 130

Client Sample ID: BH-164 (8') Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06

1-Chlorooctane

o-Terphenyl

REMOVED FROM ANALYSIS TABLE

97

104

Lab Sample ID: 890-2689-11 **Matrix: Solid**

08/03/22 09:25 08/03/22 23:37

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/05/22 11:19	08/06/22 07:34	1
Toluene	< 0.00201	U	0.00201		mg/Kg		08/05/22 11:19	08/06/22 07:34	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/05/22 11:19	08/06/22 07:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/05/22 11:19	08/06/22 07:34	1
o-Xylene	< 0.00201	U	0.00201		mg/Kg		08/05/22 11:19	08/06/22 07:34	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/05/22 11:19	08/06/22 07:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				08/05/22 11:19	08/06/22 07:34	1
1,4-Difluorobenzene (Surr)	99		70 - 130				08/05/22 11:19	08/06/22 07:34	1
- Method: Total BTEX - Total	BTEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	11	0.00402		mg/Kg			08/08/22 14:27	

Client Sample ID: BH-164 (8')

Lab Sample ID: 890-2689-11 Date Collected: 07/26/22 12:00

Matrix: Solid Date Received: 07/29/22 14:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3450		250		mg/Kg			08/04/22 09:51	1
Method: 8015B NM - Diesel I	Range Organ	ics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<250	U	250		mg/Kg		08/03/22 09:25	08/03/22 21:27	5
Diesel Range Organics (Over C10-C28)	2820		250		mg/Kg		08/03/22 09:25	08/03/22 21:27	5
Oll Range Organics (Over C28-C36)	625		250		mg/Kg		08/03/22 09:25	08/03/22 21:27	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				08/03/22 09:25	08/03/22 21:27	5
o-Terphenyl	105		70 - 130				08/03/22 09:25	08/03/22 21:27	5

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RLMDL Unit Analyzed Dil Fac D Prepared Chloride 1340 24.9 mg/Kg 08/06/22 08:22

Client Sample ID: BH-165 (13')

Lab Sample ID: 890-2689-12 Date Collected: 07/26/22 12:00 **Matrix: Solid**

Method: 8021B - Volatile Org Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201		0.00201		mg/Kg	— <u>-</u>	08/05/22 11:19	08/06/22 07:54	
Toluene	< 0.00201	U	0.00201		mg/Kg		08/05/22 11:19	08/06/22 07:54	
Ethylbenzene	< 0.00201	U	0.00201		mg/Kg		08/05/22 11:19	08/06/22 07:54	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/05/22 11:19	08/06/22 07:54	
o-Xylene	< 0.00201	U	0.00201		mg/Kg		08/05/22 11:19	08/06/22 07:54	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/05/22 11:19	08/06/22 07:54	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	115		70 - 130				08/05/22 11:19	08/06/22 07:54	
1,4-Difluorobenzene (Surr)	91		70 - 130				08/05/22 11:19	08/06/22 07:54	
Method: Total BTEX - Total B	TEX Calcula	tion							
Method: Total BTEX - Total B Analyte		tion Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
		Qualifier	RL 0.00402	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/08/22 14:27	Dil Fa
Analyte Total BTEX Method: 8015 NM - Diesel Ra	Result <0.00402	Qualifier U	0.00402 OC)		mg/Kg	_ =		08/08/22 14:27	
Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte	Result <0.00402 inge Organic Result	Qualifier U	0.00402 GC) RL		mg/Kg Unit	<u>D</u>	Prepared Prepared	08/08/22 14:27 Analyzed	
Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte	Result <0.00402	Qualifier U	0.00402 OC)		mg/Kg	_ =		08/08/22 14:27	
Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte Total TPH	Result <0.00402 Inge Organic Result 64.6	Qualifier U s (DRO) (O Qualifier	0.00402 GC) RL 49.9		mg/Kg Unit	_ =		08/08/22 14:27 Analyzed	
Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte Total TPH Method: 8015B NM - Diesel F	Result <0.00402 Inge Organic Result 64.6 Range Organic	Qualifier U s (DRO) (O Qualifier	0.00402 GC) RL 49.9		mg/Kg Unit mg/Kg	_ =		08/08/22 14:27 Analyzed	Dil Fa
Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte Total TPH Method: 8015B NM - Diesel F Analyte Gasoline Range Organics	Result <0.00402 Inge Organic Result 64.6 Range Organic	Qualifier U S (DRO) (O Qualifier ics (DRO) Qualifier	0.00402	MDL	mg/Kg Unit mg/Kg	<u></u> <u></u>	Prepared	08/08/22 14:27 Analyzed 08/04/22 09:51	Dil Fa
Analyte	Result <0.00402 Inge Organic Result 64.6 Range Organic Result	Qualifier U S (DRO) (O Qualifier ics (DRO) Qualifier	0.00402 GC) RL 49.9 (GC) RL	MDL	mg/Kg Unit mg/Kg Unit	<u></u> <u></u>	Prepared Prepared	08/08/22 14:27 Analyzed 08/04/22 09:51 Analyzed 08/03/22 23:15	Dil Fac

Lab Sample ID: 890-2689-12 Client Sample ID: BH-165 (13')

Date Collected: 07/26/22 12:00 **Matrix: Solid** Date Received: 07/29/22 14:06

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	08/03/22 09:25 08/03/22 23:15	1
o-Terphenyl	98		70 - 130	08/03/22 09:25 08/03/22 23:15	1

Method: 300.0 - Anions, Ion Cl	hromatography - Sol	uble						
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	613	24.9		mg/Kg			08/06/22 08:50	5

Client Sample ID: SW-43 (0-4') Lab Sample ID: 890-2689-13 REMOVED FROM Date Collected: 07/26/22 12:00 **Matrix: Solid ANALYSIS TABLE** Date Received: 07/29/22 14:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/07/22 12:02	08/08/22 00:42	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/07/22 12:02	08/08/22 00:42	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/07/22 12:02	08/08/22 00:42	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/07/22 12:02	08/08/22 00:42	1
o-Xylene	<0.00202	U F1	0.00202		mg/Kg		08/07/22 12:02	08/08/22 00:42	1
Xylenes, Total	<0.00403	U F1	0.00403		mg/Kg		08/07/22 12:02	08/08/22 00:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				08/07/22 12:02	08/08/22 00:42	1
1,4-Difluorobenzene (Surr)	88		70 - 130				08/07/22 12:02	08/08/22 00:42	1
Method: Total BTEX - Total	BTEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	П	0.00403		mg/Kg			08/08/22 14:27	

_ Method: 8015 NM - Diesel Ran	ge Organic	s (DRO) (G	C)						
Analyte	-	Qualifier	RL	MDL Un	t	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mq	/Kg			08/04/22 09:51	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/03/22 09:25	08/04/22 01:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/03/22 09:25	08/04/22 01:38	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/03/22 09:25	08/04/22 01:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				08/03/22 09:25	08/04/22 01:38	1
o-Terphenyl	94		70 - 130				08/03/22 09:25	08/04/22 01:38	1

Method: 300.0 - Anions, ion Cr	nromatograpr	ny - Soluble					
Analyte	Result Q	ualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.9	5.00	mg/Kg]		08/06/22 08:59	1

Client Sample ID: SW-39 (0-13')

Date Collected: 07/29/22 12:00 Date Received: 07/29/22 14:06

Lab Sample ID: 890-2689-14

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/07/22 12:02	08/08/22 01:03	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/07/22 12:02	08/08/22 01:03	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/07/22 12:02	08/08/22 01:03	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/07/22 12:02	08/08/22 01:03	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/07/22 12:02	08/08/22 01:03	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/07/22 12:02	08/08/22 01:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				08/07/22 12:02	08/08/22 01:03	1
1,4-Difluorobenzene (Surr)	93		70 - 130				08/07/22 12:02	08/08/22 01:03	1

Method: Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL Analyzed Dil Fac MDL Unit Prepared Total BTEX <0.00402 U 0.00402 mg/Kg 08/08/22 14:27

Method: 8015 NM - Diesel Range Organics (DRO) (GC)										
	Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac		
	Total TPH	<49.9 U	49.9	mg/Kg			08/04/22 09:51	1		

Method: 8015B NM - Diese	el Range Organics (DRO) (GC)
Analyto	Posult Qualifier

ı	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Gasoline Range Organics	<49.9	U	49.9		mg/Kg		08/03/22 09:25	08/04/22 01:58	1
	(GRO)-C6-C10									
	Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		08/03/22 09:25	08/04/22 01:58	1
	C10-C28)									
	OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/03/22 09:25	08/04/22 01:58	1
	Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	08/03/22 09:25	08/04/22 01:58	1
o-Terphenyl	92		70 - 130	08/03/22 09:25	08/04/22 01:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111		5.04		mg/Kg			08/06/22 20:26	1

Client Sample ID: SW-40 (0-13')

Date Collected: 07/29/22 12:00 Date Received: 07/29/22 14:06

Lab Sample ID: 890-2689-15

08/07/22 12:02 08/08/22 01:23

Matrix: Solid

	Method: 8021B - Volatile Organic Compounds	(GC)	
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Welliou. 602 IB - Volatile O	rganic Compo	ulius (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/07/22 12:02	08/08/22 01:23	1
Toluene	< 0.00199	U	0.00199		mg/Kg		08/07/22 12:02	08/08/22 01:23	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		08/07/22 12:02	08/08/22 01:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/07/22 12:02	08/08/22 01:23	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		08/07/22 12:02	08/08/22 01:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/07/22 12:02	08/08/22 01:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				08/07/22 12:02	08/08/22 01:23	1

Eurofins Carlsbad

70 - 130

1,4-Difluorobenzene (Surr)

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2689-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-40 (0-13')

Date Collected: 07/29/22 12:00 Date Received: 07/29/22 14:06

Lab Sample ID: 890-2689-15

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/08/22 14:27	1
- Method: 8015 NM - Diesel Rar	nge Organic	s (DRO) (0	SC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/04/22 09:51	1
- Method: 8015B NM - Diesel R	ange Organi	ics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		08/03/22 09:25	08/04/22 02:18	
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		08/03/22 09:25	08/04/22 02:18	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/03/22 09:25	08/04/22 02:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	84		70 - 130				08/03/22 09:25	08/04/22 02:18	1
o-Terphenyl	90		70 - 130				08/03/22 09:25	08/04/22 02:18	1
Method: 300.0 - Anions, Ion C	hromatogra	phy - Solu	ıble						
Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52.3		5.03		mg/Kg			08/06/22 20:35	

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Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 890-2689-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-2689-1	BH-118 (13')	94	96	
390-2689-2	BH-119 (10')	114	92	
390-2689-2 MS	BH-119 (10')	124	98	
390-2689-2 MSD	BH-119 (10')	112	93	
390-2689-3	BH-158 (8')	110	93	
390-2689-4	SW-50 (0-6')	117	89	
390-2689-5	SW-51 (0-6')	111	91	
390-2689-6	BH-159 (8')	131 S1+	91	
390-2689-7	BH-160 (8')	135 S1+	89	
390-2689-8	BH-161 (8')	106	77	
390-2689-9	BH-162 (8')	108	87	
390-2689-10	BH-163 (8')	122	82	
390-2689-11	BH-164 (8')	124	99	
390-2689-12	BH-165 (13')	115	91	
390-2689-13	SW-43 (0-4')	110	88	
390-2689-13 MS	SW-43 (0-4')	114	95	
390-2689-13 MSD	SW-43 (0-4')	120	94	
390-2689-14	SW-39 (0-13')	120	93	
390-2689-15	SW-40 (0-13')	108	77	
_CS 880-31573/1-A	Lab Control Sample	106	90	
_CS 880-31669/1-A	Lab Control Sample	100	99	
_CSD 880-31573/2-A	Lab Control Sample Dup	112	94	
_CSD 880-31669/2-A	Lab Control Sample Dup	101	101	
MB 880-31335/5-A	Method Blank	99	89	
MB 880-31573/5-A	Method Blank	101	91	
MB 880-31602/5-A	Method Blank	95	80	
	Method Blank	130	111	

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

			Percent	Surrogate Red
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2689-1	BH-118 (13')	92	94	
890-2689-2	BH-119 (10')	99	113	
890-2689-2 MS	BH-119 (10')	96	92	
890-2689-2 MSD	BH-119 (10')	88	84	
890-2689-3	BH-158 (8')	83	88	
890-2689-4	SW-50 (0-6')	90	96	
890-2689-5	SW-51 (0-6')	84	91	
890-2689-6	BH-159 (8')	87	91	
890-2689-7	BH-160 (8')	88	91	
890-2689-8	BH-161 (8')	88	92	
890-2689-9	BH-162 (8')	87	94	
890-2689-10	BH-163 (8')	97	104	

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-2689-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

				ent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2689-11	BH-164 (8')	99	105	
890-2689-12	BH-165 (13')	93	98	
890-2689-13	SW-43 (0-4')	88	94	
890-2689-14	SW-39 (0-13')	87	92	
890-2689-15	SW-40 (0-13')	84	90	
LCS 880-31397/2-A	Lab Control Sample	109	107	
LCSD 880-31397/3-A	Lab Control Sample Dup	111	110	
MB 880-31397/1-A	Method Blank	96	109	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

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Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-31335/5-A

Matrix: Solid

Analysis Batch: 31540

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31335

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/02/22 14:31	08/05/22 11:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/02/22 14:31	08/05/22 11:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/02/22 14:31	08/05/22 11:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/02/22 14:31	08/05/22 11:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/02/22 14:31	08/05/22 11:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/02/22 14:31	08/05/22 11:25	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed
4-Bromofluorobenzene (Surr)	99	70 - 130	08/02/22 14:31	08/05/22 11:25
1,4-Difluorobenzene (Surr)	89	70 - 130	08/02/22 14:31	08/05/22 11:25

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 31573

Lab Sample ID: MB 880-31573/5-A

Matrix: Solid

Analysis Batch: 31540

	MB I	MB							
Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200 U	U	0.00200		mg/Kg		08/05/22 11:19	08/06/22 00:00	1
Toluene	<0.00200 l	U	0.00200		mg/Kg		08/05/22 11:19	08/06/22 00:00	1
Ethylbenzene	<0.00200 l	U	0.00200		mg/Kg		08/05/22 11:19	08/06/22 00:00	1
m-Xylene & p-Xylene	<0.00400 l	U	0.00400		mg/Kg		08/05/22 11:19	08/06/22 00:00	1
o-Xylene	<0.00200 l	U	0.00200		mg/Kg		08/05/22 11:19	08/06/22 00:00	1
Xylenes, Total	<0.00400 l	U	0.00400		mg/Kg		08/05/22 11:19	08/06/22 00:00	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	08/05/22 11:19	08/06/22 00:00	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/05/22 11:19	08/06/22 00:00	1

Lab Sample ID: LCS 880-31573/1-A

Matrix: Solid

Analysis Batch: 31540

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Prep Batch: 31573

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09897		mg/Kg		99	70 - 130	
Toluene	0.100	0.1022		mg/Kg		102	70 - 130	
Ethylbenzene	0.100	0.1050		mg/Kg		105	70 - 130	
m-Xylene & p-Xylene	0.200	0.2137		mg/Kg		107	70 - 130	
o-Xylene	0.100	0.1208		mg/Kg		121	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1.4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: LCSD 880-31573/2-A

Matrix: Solid						Prep Type: Total/NA				
Analysis Batch: 31540							Prep Batch: 31573			
	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09262	-	mg/Kg		93	70 - 130	7	35	

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Dil Fac

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2689-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-31573/2-A

Matrix: Solid

Analysis Batch: 31540

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 31573

LCSD LCSD Spike %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Toluene 0.100 0.09534 mg/Kg 95 70 - 130 7 35 0.100 Ethylbenzene 0.1047 mg/Kg 105 70 - 1300 35 0.200 0.2146 mg/Kg 107 70 - 130 35 m-Xylene & p-Xylene 0 0.100 2 35 o-Xylene 0.1189 mg/Kg 119 70 - 130

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-2689-2 MS Client Sample ID: BH-119 (10') Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 31540					Prep Batch: 31573
	Sample Sample	Spike	MS MS	%	%Rec
Analyta	Popult Qualifier	A ddad	Popult Qualifier Unit	D 9/ Boo 1	imita

Analyte Result Qualifier Added Result Qualifier Unit Limits %Rec Benzene <0.00200 U 0.101 0.09178 91 70 - 130 mg/Kg Toluene <0.00200 U 0.101 0.1004 mg/Kg 100 70 - 130 Ethylbenzene <0.00200 U 0.101 0.1071 mg/Kg 107 70 - 130 m-Xylene & p-Xylene <0.00399 U 0.201 0.2218 mg/Kg 110 70 - 130 o-Xylene <0.00200 U 0.101 0.1258 mg/Kg 125 70 - 130

MS MS

Surrogate	%Recovery Qualitier	Limits
4-Bromofluorobenzene (Surr)	124	70 - 130
1,4-Difluorobenzene (Surr)	98	70 - 130

Lab Sample ID: 890-2689-2 MSD Client Sample ID: BH-119 (10')

Matrix: Solid

Prep Type: Total/NA **Analysis Batch: 31540** Prep Batch: 31573

Sample	Sample	Бріке	M2D	เพอบ				%Rec		RPD
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
<0.00200	U	0.0998	0.08524		mg/Kg		85	70 - 130	7	35
<0.00200	U	0.0998	0.08780		mg/Kg		88	70 - 130	13	35
<0.00200	U	0.0998	0.08996		mg/Kg		90	70 - 130	17	35
<0.00399	U	0.200	0.1787		mg/Kg		90	70 - 130	22	35
<0.00200	U	0.0998	0.1036		mg/Kg		104	70 - 130	19	35
	Result <0.00200 <0.00200 <0.00200 <0.00200 <0.00399	Result Qualifier	Result Qualifier Added <0.00200	Result Qualifier Added Result <0.00200	Result Qualifier Added Result Qualifier <0.00200	Result Qualifier Added Result Qualifier Unit <0.00200	Result Qualifier Added Result Qualifier Unit D <0.00200	Result Qualifier Added Result Qualifier Unit D %Rec <0.00200	Result Qualifier Added Result Qualifier Unit D %Rec Limits <0.00200	Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD <0.00200

MSD MSD

Surrogate	%Recovery Qua	alifier Limits
4-Bromofluorobenzene (Surr)	112	70 - 130
1,4-Difluorobenzene (Surr)	93	70 - 130

Lab Sample ID: MB 880-31602/5-A

Matrix: Solid

Analysis Batch: 31654

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 31602

	MB	MB						•	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/05/22 13:42	08/07/22 13:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/22 13:42	08/07/22 13:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/22 13:42	08/07/22 13:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/05/22 13:42	08/07/22 13:44	1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

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Lab Sample ID: MB 880-31602/5-A

Matrix: Solid

Analysis Batch: 31654

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 31602

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/22 13:42	08/07/22 13:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/05/22 13:42	08/07/22 13:44	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				08/05/22 13:42	08/07/22 13:44	1

70 - 130

Lab Sample ID: MB 880-31669/5-A

Matrix: Solid

Analysis Batch: 31654

1,4-Difluorobenzene (Surr)

Client Sample ID: Method Blank Prep Type: Total/NA

08/05/22 13:42 08/07/22 13:44

Prep Batch: 31669

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/07/22 12:02	08/08/22 00:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/07/22 12:02	08/08/22 00:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/07/22 12:02	08/08/22 00:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/07/22 12:02	08/08/22 00:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/07/22 12:02	08/08/22 00:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/07/22 12:02	08/08/22 00:21	1

MB MB

Surrogate	%Recovery 0	Qualifier L	_imits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130	7	70 - 130	08/07/22 12:02	08/08/22 00:21	1
1,4-Difluorobenzene (Surr)	111	7	70 - 130	08/07/22 12:02	08/08/22 00:21	1

Lab Sample ID: LCS 880-31669/1-A

Matrix: Solid

Analysis Batch: 31654

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 31669

•	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1009		mg/Kg		101	70 - 130	
Toluene	0.100	0.09893		mg/Kg		99	70 - 130	
Ethylbenzene	0.100	0.09835		mg/Kg		98	70 - 130	
m-Xylene & p-Xylene	0.200	0.1984		mg/Kg		99	70 - 130	
o-Xylene	0.100	0.1126		mg/Kg		113	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-31669/2-A

Matrix: Solid Analysis Batch: 31654 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 31669

Alialysis Dalcil. 3 1004							Frep E	alcii.	51003
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1023		mg/Kg		102	70 - 130	1	35
Toluene	0.100	0.1004		mg/Kg		100	70 - 130	2	35
Ethylbenzene	0.100	0.1014		mg/Kg		101	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2043		mg/Kg		102	70 - 130	3	35
o-Xylene	0.100	0.1134		mg/Kg		113	70 - 130	1	35

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2689-1 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-2689-13 MS Client Sample ID: SW-43 (0-4') Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 31654									Prep Batc	h: 31669
-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.100	0.1058		mg/Kg		105	70 - 130	
Toluene	<0.00202	U	0.100	0.1129		mg/Kg		112	70 - 130	
Ethylbenzene	<0.00202	U	0.100	0.1179		mg/Kg		117	70 - 130	
m-Xylene & p-Xylene	<0.00403	U	0.201	0.2446		mg/Kg		122	70 - 130	
o-Xylene	< 0.00202	U F1	0.100	0.1369	F1	mg/Kg		136	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 70 - 130 114 1,4-Difluorobenzene (Surr) 70 - 130 95

Lab Sample ID: 890-2689-13 MSD

Matrix: Solid

Analysis Batch: 31654

Client Sample ID: SW-43 (0-4')

Prep Type: Total/NA

Prep Batch: 31669

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U	0.100	0.1039		mg/Kg		104	70 - 130	2	35
Toluene	<0.00202	U	0.100	0.1120		mg/Kg		112	70 - 130	1	35
Ethylbenzene	<0.00202	U	0.100	0.1218		mg/Kg		122	70 - 130	3	35
m-Xylene & p-Xylene	<0.00403	U	0.200	0.2532		mg/Kg		126	70 - 130	3	35
o-Xylene	<0.00202	U F1	0.100	0.1413	F1	mg/Kg		141	70 - 130	3	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-31397/1-A

Matrix: Solid

Analysis Batch: 31371

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 31397

	IAID	IAID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/03/22 09:25	08/03/22 19:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/22 09:25	08/03/22 19:19	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/22 09:25	08/03/22 19:19	1

MB	MR

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyze	d Dil Fac
1-Chlorooctane	96		70 - 130	08/03/22 09:25 08/03/22 19):19 1
o-Terphenyl	109		70 - 130	08/03/22 09:25 08/03/22 19):19 1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-31397/2-A

Matrix: Solid

Analysis Batch: 31371

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 31397

Spike LCS LCS %Rec Added Result Qualifier %Rec Limits Analyte Unit D Gasoline Range Organics 1000 1052 mg/Kg 105 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1023 102 mg/Kg 70 - 130

C10-C28)

LCS LCS %Recovery Qualifier

Surrogate Limits 70 - 130 1-Chlorooctane 109 70 - 130 o-Terphenyl 107

Lab Sample ID: LCSD 880-31397/3-A **Client Sample ID: Lab Control Sample Dup**

Spike

Matrix: Solid

Analysis Batch: 31371

Prep Type: Total/NA Prep Batch: 31397 LCSD LCSD %Rec **RPD** Limits **RPD** Limit Unit D %Rec

Added Result Qualifier Analyte Gasoline Range Organics 1000 1144 70 - 130 8 20 mg/Kg 114 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1065 mg/Kg 106 70 - 1304 20 C10-C28)

LCSD LCSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 111 70 - 130 o-Terphenyl 110 70 - 130

Client Sample ID: BH-119 (10') Lab Sample ID: 890-2689-2 MS

Matrix: Solid

Analysis Batch: 31371

Prep Type: Total/NA Prep Batch: 31397

%Rec Spike MS MS Sample Sample Analyte Result Qualifier Added Unit %Rec Limits Result Qualifier Gasoline Range Organics Ū 999 104 70 - 130 <49.9 1062 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 999 844.1 84 70 - 130 mg/Kg C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 96 70 - 130 92 70 - 130 o-Terphenyl

Lab Sample ID: 890-2689-2 MSD

Matrix: Solid

Analysis Batch: 31371

Client Sample ID: BH-119 (10') Prep Type: Total/NA

Prep Batch: 31397

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec <49.9 U Gasoline Range Organics 999 906.5 mg/Kg 88 70 - 13016 20 (GRO)-C6-C10 <49.9 U 999 780.0 mg/Kg 78 70 - 130 8 20 Diesel Range Organics (Over C10-C28)

MSD MSD

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 88

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2689-1 SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-2689-2 MSD Client Sample ID: BH-119 (10') Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 31371

Prep Batch: 31397

MSD MSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 84 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-31360/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 31623 MB MB

Result Qualifier Analyte RL MDL Unit Prepared Analyzed Dil Fac Chloride <5.00 5.00 08/06/22 05:46 U mg/Kg

Lab Sample ID: LCS 880-31360/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 31623

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit D %Rec 250 Chloride 236.9 mg/Kg 95 90 - 110

Lab Sample ID: LCSD 880-31360/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 31623

LCSD LCSD Spike %Rec **RPD** Added Analyte Result Qualifier Unit D %Rec Limits **RPD** Limit Chloride 250 237.0 95 90 - 110 20 mg/Kg

Lab Sample ID: 890-2689-1 MS Client Sample ID: BH-118 (13') **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 31623

MS MS Sample Sample Spike %Rec **Analyte** Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 263 252 507.4 97 90 - 110 mg/Kg

Lab Sample ID: 890-2689-1 MSD

Matrix: Solid

Analysis Batch: 31623

MSD MSD **RPD** Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 263 252 505.2 90 - 110 mg/Kg

Lab Sample ID: 890-2689-11 MS

Matrix: Solid

Analysis Batch: 31623

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 1240 Chloride 1340 2642 105 90 - 110 mg/Kg

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Client Sample ID: BH-118 (13')

Client Sample ID: BH-164 (8')

Prep Type: Soluble

Prep Type: Soluble

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2689-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2689-11 MSD Client Sample ID: BH-164 (8') **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 31623

•	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	1340		1240	2664		mg/Kg		107	90 - 110	1	20

Client: Tetra Tech, Inc.

Job ID: 890-2689-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC VOA

Prep Batch: 31335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-31335/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 31540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2689-1	BH-118 (13')	Total/NA	Solid	8021B	31573
890-2689-2	BH-119 (10')	Total/NA	Solid	8021B	31573
890-2689-3	BH-158 (8')	Total/NA	Solid	8021B	31573
890-2689-4	SW-50 (0-6')	Total/NA	Solid	8021B	31573
890-2689-5	SW-51 (0-6')	Total/NA	Solid	8021B	31573
890-2689-6	BH-159 (8')	Total/NA	Solid	8021B	31573
890-2689-7	BH-160 (8')	Total/NA	Solid	8021B	31573
890-2689-8	BH-161 (8')	Total/NA	Solid	8021B	31573
890-2689-9	BH-162 (8')	Total/NA	Solid	8021B	31573
890-2689-10	BH-163 (8')	Total/NA	Solid	8021B	31573
890-2689-11	BH-164 (8')	Total/NA	Solid	8021B	31573
890-2689-12	BH-165 (13')	Total/NA	Solid	8021B	31573
MB 880-31335/5-A	Method Blank	Total/NA	Solid	8021B	31335
MB 880-31573/5-A	Method Blank	Total/NA	Solid	8021B	31573
LCS 880-31573/1-A	Lab Control Sample	Total/NA	Solid	8021B	31573
LCSD 880-31573/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31573
890-2689-2 MS	BH-119 (10')	Total/NA	Solid	8021B	31573
890-2689-2 MSD	BH-119 (10')	Total/NA	Solid	8021B	31573

Prep Batch: 31573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2689-1	BH-118 (13')	Total/NA	Solid	5035	
890-2689-2	BH-119 (10')	Total/NA	Solid	5035	
890-2689-3	BH-158 (8')	Total/NA	Solid	5035	
890-2689-4	SW-50 (0-6')	Total/NA	Solid	5035	
890-2689-5	SW-51 (0-6')	Total/NA	Solid	5035	
890-2689-6	BH-159 (8')	Total/NA	Solid	5035	
890-2689-7	BH-160 (8')	Total/NA	Solid	5035	
890-2689-8	BH-161 (8')	Total/NA	Solid	5035	
890-2689-9	BH-162 (8')	Total/NA	Solid	5035	
890-2689-10	BH-163 (8')	Total/NA	Solid	5035	
890-2689-11	BH-164 (8')	Total/NA	Solid	5035	
890-2689-12	BH-165 (13')	Total/NA	Solid	5035	
MB 880-31573/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31573/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31573/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2689-2 MS	BH-119 (10')	Total/NA	Solid	5035	
890-2689-2 MSD	BH-119 (10')	Total/NA	Solid	5035	

Prep Batch: 31602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-31602/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 31654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2689-13	SW-43 (0-4')	Total/NA	Solid	8021B	31669
890-2689-14	SW-39 (0-13')	Total/NA	Solid	8021B	31669

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Client: Tetra Tech, Inc. Job ID: 890-2689-1 Project/Site: Kaiser SWD SDG: Lea County NM

GC VOA (Continued)

Analysis Batch: 31654 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2689-15	SW-40 (0-13')	Total/NA	Solid	8021B	31669
MB 880-31602/5-A	Method Blank	Total/NA	Solid	8021B	31602
MB 880-31669/5-A	Method Blank	Total/NA	Solid	8021B	31669
LCS 880-31669/1-A	Lab Control Sample	Total/NA	Solid	8021B	31669
LCSD 880-31669/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31669
890-2689-13 MS	SW-43 (0-4')	Total/NA	Solid	8021B	31669
890-2689-13 MSD	SW-43 (0-4')	Total/NA	Solid	8021B	31669

Prep Batch: 31669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2689-13	SW-43 (0-4')	Total/NA	Solid	5035	
890-2689-14	SW-39 (0-13')	Total/NA	Solid	5035	
890-2689-15	SW-40 (0-13')	Total/NA	Solid	5035	
MB 880-31669/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31669/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31669/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2689-13 MS	SW-43 (0-4')	Total/NA	Solid	5035	
890-2689-13 MSD	SW-43 (0-4')	Total/NA	Solid	5035	

Analysis Batch: 31779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2689-1	BH-118 (13')	Total/NA	Solid	Total BTEX	
890-2689-2	BH-119 (10')	Total/NA	Solid	Total BTEX	
890-2689-3	BH-158 (8')	Total/NA	Solid	Total BTEX	
890-2689-4	SW-50 (0-6')	Total/NA	Solid	Total BTEX	
890-2689-5	SW-51 (0-6')	Total/NA	Solid	Total BTEX	
890-2689-6	BH-159 (8')	Total/NA	Solid	Total BTEX	
890-2689-7	BH-160 (8')	Total/NA	Solid	Total BTEX	
890-2689-8	BH-161 (8')	Total/NA	Solid	Total BTEX	
890-2689-9	BH-162 (8')	Total/NA	Solid	Total BTEX	
890-2689-10	BH-163 (8')	Total/NA	Solid	Total BTEX	
890-2689-11	BH-164 (8')	Total/NA	Solid	Total BTEX	
890-2689-12	BH-165 (13')	Total/NA	Solid	Total BTEX	
890-2689-13	SW-43 (0-4')	Total/NA	Solid	Total BTEX	
890-2689-14	SW-39 (0-13')	Total/NA	Solid	Total BTEX	
890-2689-15	SW-40 (0-13')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 31371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2689-1	BH-118 (13')	Total/NA	Solid	8015B NM	31397
890-2689-2	BH-119 (10')	Total/NA	Solid	8015B NM	31397
890-2689-3	BH-158 (8')	Total/NA	Solid	8015B NM	31397
890-2689-4	SW-50 (0-6')	Total/NA	Solid	8015B NM	31397
890-2689-5	SW-51 (0-6')	Total/NA	Solid	8015B NM	31397
890-2689-6	BH-159 (8')	Total/NA	Solid	8015B NM	31397
890-2689-7	BH-160 (8')	Total/NA	Solid	8015B NM	31397
890-2689-8	BH-161 (8')	Total/NA	Solid	8015B NM	31397
890-2689-9	BH-162 (8')	Total/NA	Solid	8015B NM	31397
890-2689-10	BH-163 (8')	Total/NA	Solid	8015B NM	31397

Client: Tetra Tech, Inc. Job ID: 890-2689-1 Project/Site: Kaiser SWD SDG: Lea County NM

GC Semi VOA (Continued)

Analysis Batch: 31371 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2689-11	BH-164 (8')	Total/NA	Solid	8015B NM	31397
890-2689-12	BH-165 (13')	Total/NA	Solid	8015B NM	31397
890-2689-13	SW-43 (0-4')	Total/NA	Solid	8015B NM	31397
890-2689-14	SW-39 (0-13')	Total/NA	Solid	8015B NM	31397
890-2689-15	SW-40 (0-13')	Total/NA	Solid	8015B NM	31397
MB 880-31397/1-A	Method Blank	Total/NA	Solid	8015B NM	31397
LCS 880-31397/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	31397
LCSD 880-31397/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	31397
890-2689-2 MS	BH-119 (10')	Total/NA	Solid	8015B NM	31397
890-2689-2 MSD	BH-119 (10')	Total/NA	Solid	8015B NM	31397

Prep Batch: 31397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2689-1	BH-118 (13')	Total/NA	Solid	8015NM Prep	
890-2689-2	BH-119 (10')	Total/NA	Solid	8015NM Prep	
890-2689-3	BH-158 (8')	Total/NA	Solid	8015NM Prep	
890-2689-4	SW-50 (0-6')	Total/NA	Solid	8015NM Prep	
890-2689-5	SW-51 (0-6')	Total/NA	Solid	8015NM Prep	
890-2689-6	BH-159 (8')	Total/NA	Solid	8015NM Prep	
890-2689-7	BH-160 (8')	Total/NA	Solid	8015NM Prep	
890-2689-8	BH-161 (8')	Total/NA	Solid	8015NM Prep	
890-2689-9	BH-162 (8')	Total/NA	Solid	8015NM Prep	
890-2689-10	BH-163 (8')	Total/NA	Solid	8015NM Prep	
890-2689-11	BH-164 (8')	Total/NA	Solid	8015NM Prep	
890-2689-12	BH-165 (13')	Total/NA	Solid	8015NM Prep	
890-2689-13	SW-43 (0-4')	Total/NA	Solid	8015NM Prep	
890-2689-14	SW-39 (0-13')	Total/NA	Solid	8015NM Prep	
890-2689-15	SW-40 (0-13')	Total/NA	Solid	8015NM Prep	
MB 880-31397/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-31397/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-31397/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2689-2 MS	BH-119 (10')	Total/NA	Solid	8015NM Prep	
890-2689-2 MSD	BH-119 (10')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 31489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2689-1	BH-118 (13')	Total/NA	Solid	8015 NM	
890-2689-2	BH-119 (10')	Total/NA	Solid	8015 NM	
390-2689-3	BH-158 (8')	Total/NA	Solid	8015 NM	
390-2689-4	SW-50 (0-6')	Total/NA	Solid	8015 NM	
890-2689-5	SW-51 (0-6')	Total/NA	Solid	8015 NM	
890-2689-6	BH-159 (8')	Total/NA	Solid	8015 NM	
390-2689-7	BH-160 (8')	Total/NA	Solid	8015 NM	
890-2689-8	BH-161 (8')	Total/NA	Solid	8015 NM	
390-2689-9	BH-162 (8')	Total/NA	Solid	8015 NM	
390-2689-10	BH-163 (8')	Total/NA	Solid	8015 NM	
390-2689-11	BH-164 (8')	Total/NA	Solid	8015 NM	
890-2689-12	BH-165 (13')	Total/NA	Solid	8015 NM	
390-2689-13	SW-43 (0-4')	Total/NA	Solid	8015 NM	
390-2689-14	SW-39 (0-13')	Total/NA	Solid	8015 NM	
890-2689-15	SW-40 (0-13')	Total/NA	Solid	8015 NM	

Job ID: 890-2689-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

HPLC/IC

Leach Batch: 31360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2689-1	BH-118 (13')	Soluble	Solid	DI Leach	
890-2689-2	BH-119 (10')	Soluble	Solid	DI Leach	
890-2689-3	BH-158 (8')	Soluble	Solid	DI Leach	
890-2689-4	SW-50 (0-6')	Soluble	Solid	DI Leach	
890-2689-5	SW-51 (0-6')	Soluble	Solid	DI Leach	
890-2689-6	BH-159 (8')	Soluble	Solid	DI Leach	
890-2689-7	BH-160 (8')	Soluble	Solid	DI Leach	
890-2689-8	BH-161 (8')	Soluble	Solid	DI Leach	
890-2689-9	BH-162 (8')	Soluble	Solid	DI Leach	
890-2689-10	BH-163 (8')	Soluble	Solid	DI Leach	
890-2689-11	BH-164 (8')	Soluble	Solid	DI Leach	
890-2689-12	BH-165 (13')	Soluble	Solid	DI Leach	
890-2689-13	SW-43 (0-4')	Soluble	Solid	DI Leach	
890-2689-14	SW-39 (0-13')	Soluble	Solid	DI Leach	
890-2689-15	SW-40 (0-13')	Soluble	Solid	DI Leach	
MB 880-31360/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-31360/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-31360/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2689-1 MS	BH-118 (13')	Soluble	Solid	DI Leach	
890-2689-1 MSD	BH-118 (13')	Soluble	Solid	DI Leach	
890-2689-11 MS	BH-164 (8')	Soluble	Solid	DI Leach	
890-2689-11 MSD	BH-164 (8')	Soluble	Solid	DI Leach	

Analysis Batch: 31623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2689-1	BH-118 (13')	Soluble	Solid	300.0	31360
890-2689-2	BH-119 (10')	Soluble	Solid	300.0	31360
890-2689-3	BH-158 (8')	Soluble	Solid	300.0	31360
890-2689-4	SW-50 (0-6')	Soluble	Solid	300.0	31360
890-2689-5	SW-51 (0-6')	Soluble	Solid	300.0	31360
890-2689-6	BH-159 (8')	Soluble	Solid	300.0	31360
890-2689-7	BH-160 (8')	Soluble	Solid	300.0	31360
890-2689-8	BH-161 (8')	Soluble	Solid	300.0	31360
890-2689-9	BH-162 (8')	Soluble	Solid	300.0	31360
890-2689-10	BH-163 (8')	Soluble	Solid	300.0	31360
890-2689-11	BH-164 (8')	Soluble	Solid	300.0	31360
890-2689-12	BH-165 (13')	Soluble	Solid	300.0	31360
890-2689-13	SW-43 (0-4')	Soluble	Solid	300.0	31360
890-2689-14	SW-39 (0-13')	Soluble	Solid	300.0	31360
890-2689-15	SW-40 (0-13')	Soluble	Solid	300.0	31360
MB 880-31360/1-A	Method Blank	Soluble	Solid	300.0	31360
LCS 880-31360/2-A	Lab Control Sample	Soluble	Solid	300.0	31360
LCSD 880-31360/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	31360
890-2689-1 MS	BH-118 (13')	Soluble	Solid	300.0	31360
890-2689-1 MSD	BH-118 (13')	Soluble	Solid	300.0	31360
890-2689-11 MS	BH-164 (8')	Soluble	Solid	300.0	31360
890-2689-11 MSD	BH-164 (8')	Soluble	Solid	300.0	31360

Client Sample ID: BH-118 (13')

Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06

Lab Sample ID: 890-2689-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	31573	08/05/22 11:19	MR	EETSC MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	31540	08/06/22 01:44	MR	EETSC M
Total/NA	Analysis	Total BTEX		1			31779	08/08/22 14:27	SM	EETSC M
Total/NA	Analysis	8015 NM		1			31489	08/04/22 09:51	AJ	EETSC M
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31397	08/03/22 09:25	DM	EETSC M
Total/NA	Analysis	8015B NM		1			31371	08/03/22 22:32	AJ	EETSC M
Soluble	Leach	DI Leach			4.97 g	50 mL	31360	08/02/22 19:05	SMC	EETSC M
Soluble	Analysis	300.0		1			31623	08/06/22 06:13	AJ	EETSC M

Client Sample ID: BH-119 (10') Lab Sample ID: 890-2689-2 **Matrix: Solid**

Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Type Run **Factor Amount** Amount Number or Analyzed **Analyst** Lab Total/NA 5035 31573 08/05/22 11:19 MR EETSC MID Prep 5.01 g 5 mL Total/NA 8021B 5 mL 31540 08/06/22 00:22 MR EETSC M Analysis 5 mL 1 Total/NA Total BTEX Analysis 31779 08/08/22 14:27 SM EETSC M 1 Total/NA 8015 NM EETSC M Analysis 1 31489 08/04/22 09:51 AJ Total/NA Prep 8015NM Prep 10.03 g 10 mL 31397 08/03/22 09:25 DM EETSC M Total/NA 8015B NM Analysis 1 31371 08/03/22 20:23 AJ EETSC M Soluble 31360 08/02/22 19:05 SMC Leach DI Leach 4.99 g 50 mL EETSC M 300.0 08/06/22 06:41 AJ Soluble Analysis 5 31623 EETSC M

Client Sample ID: BH-158 (8') Lab Sample ID: 890-2689-3 Date Collected: 07/26/22 12:00 Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035	_		5.03 g	5 mL	31573	08/05/22 11:19	MR	EETSC MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31540	08/06/22 00:42	MR	EETSC M
Total/NA	Analysis	Total BTEX		1			31779	08/08/22 14:27	SM	EETSC M
Total/NA	Analysis	8015 NM		1			31489	08/04/22 09:51	AJ	EETSC M
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31397	08/03/22 09:25	DM	EETSC M
Total/NA	Analysis	8015B NM		1			31371	08/03/22 23:57	AJ	EETSC M
Soluble	Leach	DI Leach			5 g	50 mL	31360	08/02/22 19:05	SMC	EETSC M
Soluble	Analysis	300.0		1			31623	08/06/22 06:50	AJ	EETSC M

Client Sample ID: SW-50 (0-6') Lab Sample ID: 890-2689-4 Date Collected: 07/26/22 12:00 Matrix: Solid

Date Received: 07/29/22 14:06

Date Received: 07/29/22 14:06

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	31573	08/05/22 11:19	MR	EETSC MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	31540	08/06/22 01:03	MR	EETSC M
Total/NA	Analysis	Total BTEX		1			31779	08/08/22 14:27	SM	EETSC M

Job ID: 890-2689-1 SDG: Lea County NM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Lab Sample ID: 890-2689-4

Matrix: Solid

Client Sample ID: SW-50 (0-6') Date Collected: 07/26/22 12:00

Date Received: 07/29/22 14:06

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			31489	08/04/22 09:51	AJ	EETSC MIC
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	31397	08/03/22 09:25	DM	EETSC M
Total/NA	Analysis	8015B NM		1			31371	08/04/22 00:58	AJ	EETSC M
Soluble	Leach	DI Leach			5.03 g	50 mL	31360	08/02/22 19:05	SMC	EETSC M
Soluble	Analysis	300.0		1			31623	08/06/22 07:00	AJ	EETSC M

Client Sample ID: SW-51 (0-6') Lab Sample ID: 890-2689-5 Date Collected: 07/26/22 12:00 **Matrix: Solid**

Date Received: 07/29/22 14:06

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	31573	08/05/22 11:19	MR	EETSC MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31540	08/06/22 01:23	MR	EETSC M
Total/NA	Analysis	Total BTEX		1			31779	08/08/22 14:27	SM	EETSC M
Total/NA	Analysis	8015 NM		1			31489	08/04/22 09:51	AJ	EETSC M
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31397	08/03/22 09:25	DM	EETSC M
Total/NA	Analysis	8015B NM		1			31371	08/04/22 01:18	AJ	EETSC M
Soluble	Leach	DI Leach			5.03 g	50 mL	31360	08/02/22 19:05	SMC	EETSC M
Soluble	Analysis	300.0		1			31623	08/06/22 07:09	AJ	EETSC M

Client Sample ID: BH-159 (8') Lab Sample ID: 890-2689-6 Date Collected: 07/26/22 12:00 **Matrix: Solid**

Date Received: 07/29/22 14:06

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	31573	08/05/22 11:19	MR	EETSC MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31540	08/06/22 02:46	MR	EETSC M
Total/NA	Analysis	Total BTEX		1			31779	08/08/22 14:27	SM	EETSC M
Total/NA	Analysis	8015 NM		1			31489	08/04/22 09:51	AJ	EETSC M
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31397	08/03/22 09:25	DM	EETSC M
Total/NA	Analysis	8015B NM		1			31371	08/03/22 22:53	AJ	EETSC M
Soluble	Leach	DI Leach			4.95 g	50 mL	31360	08/02/22 19:05	SMC	EETSC M
Soluble	Analysis	300.0		5			31623	08/06/22 07:36	AJ	EETSC M

Client Sample ID: BH-160 (8') Lab Sample ID: 890-2689-7 Date Collected: 07/26/22 12:00 **Matrix: Solid**

Date Received: 07/29/22 14:06

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	31573	08/05/22 11:19	MR	EETSC MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	31540	08/06/22 03:06	MR	EETSC M
Total/NA	Analysis	Total BTEX		1			31779	08/08/22 14:27	SM	EETSC M
Total/NA	Analysis	8015 NM		1			31489	08/04/22 09:51	AJ	EETSC M
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.00 g	10 mL	31397 31371	08/03/22 09:25 08/03/22 21:49		EETSC M EETSC M

Matrix: Solid

Matrix: Solid

Job ID: 890-2689-1

Lab Sample ID: 890-2689-7

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-160 (8') Date Collected: 07/26/22 12:00

Date Received: 07/29/22 14:06

		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
	Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
	Soluble	Leach	DI Leach			4.96 g	50 mL	31360	08/02/22 19:05	SMC	EETSC MIC
l	Soluble	Analysis	300.0		5			31623	08/06/22 07:46	AJ	EETSC M

Lab Sample ID: 890-2689-8 Client Sample ID: BH-161 (8')

Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	31573	08/05/22 11:19	MR	EETSC MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31540	08/06/22 03:27	MR	EETSC M
Total/NA	Analysis	Total BTEX		1			31779	08/08/22 14:27	SM	EETSC M
Total/NA	Analysis	8015 NM		1			31489	08/04/22 09:51	AJ	EETSC M
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31397	08/03/22 09:25	DM	EETSC M
Total/NA	Analysis	8015B NM		1			31371	08/03/22 22:11	AJ	EETSC M
Soluble	Leach	DI Leach			5 g	50 mL	31360	08/02/22 19:05	SMC	EETSC M
Soluble	Analysis	300.0		5			31623	08/06/22 07:55	AJ	EETSC M

Lab Sample ID: 890-2689-9 Client Sample ID: BH-162 (8') **Matrix: Solid**

Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	31573	08/05/22 11:19	MR	EETSC MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31540	08/06/22 02:05	MR	EETSC M
Total/NA	Analysis	Total BTEX		1			31779	08/08/22 14:27	SM	EETSC M
Total/NA	Analysis	8015 NM		1			31489	08/04/22 09:51	AJ	EETSC M
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31397	08/03/22 09:25	DM	EETSC M
Total/NA	Analysis	8015B NM		1			31371	08/04/22 00:18	AJ	EETSC M
Soluble	Leach	DI Leach			5.02 g	50 mL	31360	08/02/22 19:05	SMC	EETSC M
Soluble	Analysis	300.0		5			31623	08/06/22 08:04	AJ	EETSC M

Client Sample ID: BH-163 (8') Lab Sample ID: 890-2689-10 Date Collected: 07/26/22 12:00 **Matrix: Solid**

Date Received: 07/29/22 14:06

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	31573	08/05/22 11:19	MR	EETSC MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	31540	08/06/22 02:25	MR	EETSC M
Total/NA	Analysis	Total BTEX		1			31779	08/08/22 14:27	SM	EETSC M
Total/NA	Analysis	8015 NM		1			31489	08/04/22 09:51	AJ	EETSC M
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31397	08/03/22 09:25	DM	EETSC M
Total/NA	Analysis	8015B NM		1			31371	08/03/22 23:37	AJ	EETSC M
Soluble	Leach	DI Leach			4.98 g	50 mL	31360	08/02/22 19:05	SMC	EETSC M
Soluble	Analysis	300.0		1			31623	08/06/22 08:13	AJ	EETSC M

Client Sample ID: BH-164 (8')

Lab Sample ID: 890-2689-11 Date Collected: 07/26/22 12:00

Matrix: Solid Date Received: 07/29/22 14:06

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	31573	08/05/22 11:19	MR	EETSC MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31540	08/06/22 07:34	MR	EETSC M
Total/NA	Analysis	Total BTEX		1			31779	08/08/22 14:27	SM	EETSC M
Total/NA	Analysis	8015 NM		1			31489	08/04/22 09:51	AJ	EETSC M
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31397	08/03/22 09:25	DM	EETSC M
Total/NA	Analysis	8015B NM		5			31371	08/03/22 21:27	AJ	EETSC M
Soluble	Leach	DI Leach			5.03 g	50 mL	31360	08/02/22 19:05	SMC	EETSC M
Soluble	Analysis	300.0		5			31623	08/06/22 08:22	AJ	EETSC M

Client Sample ID: BH-165 (13') Lab Sample ID: 890-2689-12 Date Collected: 07/26/22 12:00 **Matrix: Solid**

Date Received: 07/29/22 14:06

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	31573	08/05/22 11:19	MR	EETSC MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31540	08/06/22 07:54	MR	EETSC M
Total/NA	Analysis	Total BTEX		1			31779	08/08/22 14:27	SM	EETSC M
Total/NA	Analysis	8015 NM		1			31489	08/04/22 09:51	AJ	EETSC M
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31397	08/03/22 09:25	DM	EETSC M
Total/NA	Analysis	8015B NM		1			31371	08/03/22 23:15	AJ	EETSC M
Soluble	Leach	DI Leach			5.02 g	50 mL	31360	08/02/22 19:05	SMC	EETSC M
Soluble	Analysis	300.0		5			31623	08/06/22 08:50	AJ	EETSC M

Client Sample ID: SW-43 (0-4') Lab Sample ID: 890-2689-13 Date Collected: 07/26/22 12:00 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	31669	08/07/22 12:02	EL	EETSC MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31654	08/08/22 00:42	EL	EETSC M
Total/NA	Analysis	Total BTEX		1			31779	08/08/22 14:27	SM	EETSC M
Total/NA	Analysis	8015 NM		1			31489	08/04/22 09:51	AJ	EETSC M
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31397	08/03/22 09:25	DM	EETSC M
Total/NA	Analysis	8015B NM		1			31371	08/04/22 01:38	AJ	EETSC M
Soluble	Leach	DI Leach			5 g	50 mL	31360	08/02/22 19:05	SMC	EETSC M
Soluble	Analysis	300.0		1			31623	08/06/22 08:59	AJ	EETSC M

Client Sample ID: SW-39 (0-13') Lab Sample ID: 890-2689-14 Date Collected: 07/29/22 12:00

Date Received: 07/29/22 14:06

Date Received: 07/29/22 14:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	31669	08/07/22 12:02	EL	EETSC MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	31654	08/08/22 01:03	EL	EETSC M
Total/NA	Analysis	Total BTEX		1			31779	08/08/22 14:27	SM	EETSC M

Eurofins Carlsbad

Matrix: Solid

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Lab Chronicle

Client: Tetra Tech, Inc.

Job ID: 890-2689-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-39 (0-13')

Date Collected: 07/29/22 12:00 Date Received: 07/29/22 14:06 Lab Sample ID: 890-2689-14

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			31489	08/04/22 09:51	AJ	EETSC MIC
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31397	08/03/22 09:25	DM	EETSC M
Total/NA	Analysis	8015B NM		1			31371	08/04/22 01:58	AJ	EETSC M
Soluble	Leach	DI Leach			4.96 g	50 mL	31360	08/02/22 19:05	SMC	EETSC M
Soluble	Analysis	300.0		1			31623	08/06/22 20:26	AJ	EETSC M

Client Sample ID: SW-40 (0-13')

Lab Sample ID: 890-2689-15

Date Collected: 07/29/22 12:00 Date Received: 07/29/22 14:06

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	31669	08/07/22 12:02	EL	EETSC MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	31654	08/08/22 01:23	EL	EETSC M
Total/NA	Analysis	Total BTEX		1			31779	08/08/22 14:27	SM	EETSC M
Total/NA	Analysis	8015 NM		1			31489	08/04/22 09:51	AJ	EETSC M
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	31397	08/03/22 09:25	DM	EETSC M
Total/NA	Analysis	8015B NM		1			31371	08/04/22 02:18	AJ	EETSC M
Soluble	Leach	DI Leach			4.97 g	50 mL	31360	08/02/22 19:05	SMC	EETSC M
Soluble	Analysis	300.0		1			31623	08/06/22 20:35	AJ	EETSC M

Laboratory References:

EETSC MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

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Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Job ID: 890-2689-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pro	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-24	06-30-23
The following analyte	s are included in this rend	ort but the laboratory is r	not certified by the governing authority.	This list may include analytes for y
the agency does not	•	ore, but the laboratory is i	iot certified by the governing authority.	This list may include analytes for v
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the agency does not	offer certification.	•		This list may include analytes for v

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Method Description

Total BTEX Calculation

Microextraction

Volatile Organic Compounds (GC)

Diesel Range Organics (DRO) (GC)

Diesel Range Organics (DRO) (GC)

Deionized Water Leaching Procedure

Anions, Ion Chromatography

Closed System Purge and Trap

Method Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Method

Total BTEX

8015 NM

8015B NM

8015NM Prep

DI Leach

300.0

5035

8021B

Job ID: 890-2689-1 SDG: Lea County NM

Protocol	Laboratory
SW846	EETSC MID
TAL SOP	EETSC MID
SW846	EETSC MID
SW846	EETSC MID
MCAWW	EETSC MID
SW846	EETSC MID
SW846	EETSC MID
ASTM	EETSC MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EETSC MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

SW-40 (0-13')

Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

890-2689-15

Job ID: 890-2689-1 SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-2689-1	BH-118 (13')	Solid	07/26/22 12:00	07/29/22 14:06
390-2689-2	BH-119 (10')	Solid	07/26/22 12:00	07/29/22 14:06
390-2689-3	BH-158 (8')	Solid	07/26/22 12:00	07/29/22 14:06
390-2689-4	SW-50 (0-6')	Solid	07/26/22 12:00	07/29/22 14:06
90-2689-5	SW-51 (0-6')	Solid	07/26/22 12:00	07/29/22 14:06
90-2689-6	BH-159 (8')	Solid	07/26/22 12:00	07/29/22 14:06
390-2689-7	BH-160 (8')	Solid	07/26/22 12:00	07/29/22 14:06
90-2689-8	BH-161 (8')	Solid	07/26/22 12:00	07/29/22 14:06
0-2689-9	BH-162 (8')	Solid	07/26/22 12:00	07/29/22 14:06
0-2689-10	BH-163 (8')	Solid	07/26/22 12:00	07/29/22 14:06
90-2689-11	BH-164 (8')	Solid	07/26/22 12:00	07/29/22 14:06
90-2689-12	BH-165 (13')	Solid	07/26/22 12:00	07/29/22 14:06
90-2689-13	SW-43 (0-4')	Solid	07/26/22 12:00	07/29/22 14:06
0-2689-14	SW-39 (0-13')	Solid	07/29/22 12:00	07/29/22 14:06

Solid

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Analysis Re	equest of Chain of Custody Record	~ ~ ~	- -	890))))	589 Chain	of Cu	stody											Pa	ige			<u>1</u> of	f	2
TŁ	Tetra Tech, Inc.			Tel (4	132) 6	xas 79705 682-4559																			
Client Name:	Permian Water Solutions	Site Manager:		Clair G		32) 682-3946 zales				Al	VAL'	/SIS	REC			e s	ooi	for B	Moth	200	l No	. 1			
Project Name:	Kaiser SWD	C	lair.Gonz	zales@t	etr	atech.co	m			lι	1	П	1									ï. I	1		
Project Location (county, state)	n: Lea County, NM	Project #:		2120	C-N	/ID-0223	0														ist)	2			
Invoice to:	Permian Water Solutions - Dusty McInturfi	Sampler Signatu	ire:	Povit	ton	Oliver					- MRO)		Se Hg Se Hg								(see attached list)	Ollania			
Comments:	Eurofins Xenco			геу	.011	Oliver				82608	335) DRO - ORO		Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg			524	8270C/625								
		SAMPLI	ING	MATRIX	x	PRESERV METH		RS	2	BTEX	GRO-		Ag As Ba	s	olatiles	32608 / (809	SS)		Sulfate ater Cher	Balanc			
LAB#	SAMPLE IDENTIFICATION	YEAR: 2020		H.	١	93	0	CONTAINERS	FILTERED (Y/N)	8021B	BTEX 8021B BTEX 8260B TPH TX1005 (Ext to C35) TPH 8015M (GRO - DRO - ORO - MRO) PAH 8270C	PAH 8270C	Metals /	TCLP Volatiles	Semi V	IS Vol. 8	GC/MS Semi. Vol. 82700	PCB's 8082 / 608	PLM (Asbestos)	ide	ride S	Anion/Cation Balance			
(LAB USE ONLY)	DATE	TIME	WATER		F HNO3	None	00 #	FILT	BTEX	표표	PAH	Total	TCLP	TOLP	2 S S S S S S	SC SC SC	PCB's	PLM	Chlor	Chloride General	Anio			Hold
	BH-118 (13')	7/26/2022		Х	1	Х		_		X	X	-	\perp			4			-	Х		Ш		_	_
	BH-119 (10')	7/26/2022		Х	4	X		4_		X	X	_	+		1	4	\sqcup	+	_	Х	+	+	_	-	-
	BH-158 (8')	7/26/2022		Х	4	X	-	-	_	X	X	-	\perp	Н		+	H	+	_	Х	+	+	-	+	-
	SW-50 (0-6')	7/26/2022		Х	4	X		_	-	X	X	Н	-	H		+	H	+	_	Х	+	H	+	+	-
	SW-51 (0-6')	7/26/2022		Х	4	X	-	-	-	Х	X		+	Н	-	+	H	+	_	Х	+	44	-	+-	-
	BH-159 (8')	7/26/2022		Х	4	Х		+-	-	X	Х	-	+	+		+	H	+		X	+	+	+	+	-
	BH-160 (8')	7/26/2022		Х	+	Х		-	-	X	X	H	+	H		+	$\vdash \vdash$	+	_	X	+	+	+	+	-
	BH-161 (8')	7/26/2022		X	+	X		+		Х	X	Н	+	Н	-	+	\vdash	+	_	X	+	+	+	+	-
	BH-162 (8')	7/26/2022		X	+	X	H	+-	-	X	X	H	+	Н	+	+	H	+	-	x	+	+	-	+	-
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voice to:	Permian Water Solutions - Dusty McInturff												á	MKO)	g.	Нg								sched li				
ecelving Labor		Sampler Sign	ature:	F	Peyto	n Ol	liver						000		Pb Se l	Pb Se								ee atte				
omments:												82608	(35)	,	CdCr	Cd Cr			24	C79/20/			TDS	istry (s				
		SAMI	PLING	МА	TRIX	F	PRESER	VATIV HOD	E	RS	2	втех	Ext to	040	Total Metals Ag As Ba Cd Cr Pb Se Hg	Ag As Ba	Solatiles		GC/MS Vol. 8260B / 624	809		(S)	Sulfate	Ceneral Water Chemistry (see attached list)	Anion/Cation Balance			
LAB#	SAMPLE IDENTIFICATION	YEAR: 2020		~						CONTAINERS	ED (3021B	TX1005(etals A	letals /	olatile emi V		Vol. 8	Semi.		spesto	- 1	Wate	Sation			
LAB USE ONLY		DATE	TIME	WATE	SOIL SOIL	互	HNO ₃	None		# CON	FILTERED (Y/N)	BTEX 8021B		PAH 8270C	Total M	TCLP N	TCLP Volatiles TCLP Semi Volatiles	RCI	GC/MS	BCR's	NORM	PLM (Asbestos)	Chloride	Genera	Anion/(
	BH-164 (8')	7/26/2022)	_		Х	_				х)	<			I						x		П			
	BH-165 (8')	7/26/2022)	(X					Х	>	4			\perp	Ц	\perp				X	\perp	\sqcup	\perp		L
	SW-43 (0-4')	7/26/2022)	_		X	Ш				X)	4	\perp		\perp	Ц		1	-		X.	+	\sqcup			L
	SW-39 (0-13')	7/29/2022					X	Ш				X			Ш		1		4	1			× L	1	\sqcup	\perp		L
	SW-40 (0-13')	7/29/2022)	4	H	×	\square	-			×		4	+1	+	+	Н	+	+	+	H	X	+	H	+		-
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Login Sample Receipt Checklist

Client: Tetra Tech, Inc. Job Number: 890-2689-1 SDG Number: Lea County NM

List Source: Eurofins Carlsbad

Login Number: 2689 List Number: 1

Creator: Stutzman, Amanda

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2689-1

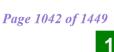
SDG Number: Lea County NM

List Source: Eurofins Midland
List Number: 2
List Creation: 08/02/22 10:44 AM

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2784-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Kaiser SWD

For:

eurofins

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Clair Gonzales

RAMER

Authorized for release by: 9/1/2022 4:34:02 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

Visit us at:

www.eurofinsus.com/Env Released to Imaging: 9/1/2023 2:55:43 PM

.....LINKS

Review your project results through

EOL

Have a Question?

Received by OCD: 8/28/2023 2:02:22 PM

Results relate only to the items tested and the sample(s) as received by the laboratory.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-2784-1 SDG: Lea County NM

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Definitions/Glossary

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

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Qualifiers

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.	
n	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	

Relative Percent Difference, a measure of the relative difference between two points

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Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

RPD

TEF

TEQ

Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Glossary (Continued)

Abbreviation These commonly used abbreviations may or may not be present in this report.

TNTC Too Numerous To Count

Case Narrative

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Job ID: 890-2784-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2784-1

Receipt

The samples were received on 8/19/2022 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 7.0°C

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: BH-120 (8') (890-2784-1), BH-124 (8') (890-2784-2), BH-132 (8') (890-2784-3), BH-159 (8') (890-2784-4), BH-162 (8') (890-2784-5), BH-164 (8') (890-2784-6), BH-166 (8') (890-2784-7), BH-167 (8') (890-2784-8), BH-168 (5') (890-2784-9), BH-169 (5') (890-2784-10), BH-170 (5') (890-2784-11), BH-171 (5') (890-2784-12), BH-172 (6') (890-2784-13), BH-173 (6') (890-2784-14), BH-174 (6') (890-2784-15), BH-175 (4.5') (890-2784-16), BH-176 (4.5') (890-2784-17), BH-177 (4.5') (890-2784-18), BH-178 (4.5') (890-2784-19), BH-179 (4.5') (890-2784-20), BH-180 (4.5') (890-2784-21), BH-181 (4.5') (890-2784-22), BH-182 (4.5') (890-2784-23), BH-183 (4.5') (890-2784-24), BH-184 (4.5') (890-2784-25), BH-185 (4.5') (890-2784-26), BH-186 (4.5') (890-2784-27), BH-187 (4.5') (890-2784-28), BH-188 (4.5') (890-2784-29), BH-189 (4.5') (890-2784-30), SW-38 (4.5-13') (890-2784-31), SW-42 (4.5-8') (890-2784-32), SW-43 (6-8') (890-2784-33), SW-44 (4.5-8') (890-2784-34), SW-45 (0-8') (890-2784-35), SW-46 (0-5') (890-2784-36), SW-47 (0-5') (890-2784-37), SW-48 (6-8') (890-2784-38), SW-49 (4.5-6') (890-2784-39), SW-53 (0-8') (890-2784-40), SW-54 (0-4.5') (890-2784-41), SW-55 (4.5-8') (890-2784-42), SW-56 (0-4.5') (890-2784-43), SW-57 (6-8') (890-2784-44), SW-58 (6-8') (890-2784-45), SW-69 (6-8') (890-2784-47), SW-61 (8-13') (890-2784-48), SW-62 (8-13') (890-2784-45), SW-63 (8-13') (890-2784-51), SW-65 (8-10') (890-2784-52), SW-66 (8-10') (890-2784-55), SW-66 (8-10') (890-2784-56), SW-70 (0-4.5') (890-2784-57), and SW-71 (0-4.5') (890-2784-58). There was no cooling media present in the cooler. The client was contacted regarding this issue, and the laboratory was instructed to <CHOOSE_ONE> proceed with/cancel analysis

890-2784 Sample temp 7.2/7.0 there was no temp blank and samples were taken on the 18th- client said they just brought samples from fridge with no cooler and no temp blank- wants to processed with testing

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: (890-2784-A-1-E MS) and (890-2784-A-1-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: BH-124 (8') (890-2784-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW-58 (6-8') (890-2784-45). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH-120 (8') (890-2784-1), BH-124 (8') (890-2784-2), BH-132 (8') (890-2784-3), BH-159 (8') (890-2784-4), BH-162 (8') (890-2784-5), BH-164 (8') (890-2784-6), BH-166 (8') (890-2784-7), BH-167 (8') (890-2784-8), BH-168 (5') (890-2784-9), BH-169 (5') (890-2784-10), (890-2784-A-1-C MS) and (890-2784-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH-170 (5') (890-2784-11), BH-173 (6') (890-2784-14), BH-174 (6') (890-2784-15), BH-175 (4.5') (890-2784-16), BH-176 (4.5') (890-2784-17), BH-177 (4.5') (890-2784-18), BH-178 (4.5') (890-2784-19) and BH-179 (4.5') (890-2784-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-32669 and analytical batch 880-32586 was outside the upper control limits.

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Eurofins Carlsbad 9/1/2022

Case Narrative

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Job ID: 890-2784-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-32669 and analytical batch 880-32586 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-32713 and analytical batch 880-32730 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-32714/2-A) and (LCSD 880-32714/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-32774/2-A) and (LCSD 880-32774/3-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-32583 and analytical batch 880-33168 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-32584 and analytical batch 880-33169 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Lab Sample ID: 890-2784-1

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-120 (8')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:01	09/01/22 00:00	
Toluene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:01	09/01/22 00:00	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:01	09/01/22 00:00	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		08/30/22 12:01	09/01/22 00:00	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:01	09/01/22 00:00	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		08/30/22 12:01	09/01/22 00:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				08/30/22 12:01	09/01/22 00:00	1
1,4-Difluorobenzene (Surr)	96		70 - 130				08/30/22 12:01	09/01/22 00:00	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			09/01/22 12:44	1
Method: 8015 NM - Diesel Range			DI	MDI	11-24		Burnand	A a b a d	D:: F-
Analyte	Result	Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed	
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/23/22 11:36	
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <49.9 ge Organics (D	Qualifier U RO) (GC)	49.9		mg/Kg			08/23/22 11:36	1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Result <49.9 ge Organics (D Result	Qualifier U RO) (GC) Qualifier	49.9		mg/Kg	<u>D</u>	Prepared	08/23/22 11:36 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <49.9 ge Organics (D	Qualifier U RO) (GC)	49.9		mg/Kg			08/23/22 11:36	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 ge Organics (D Result	Qualifier U RO) (GC) Qualifier U F1	49.9		mg/Kg		Prepared	08/23/22 11:36 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (D Result <49.9	Qualifier U RO) (GC) Qualifier U F1 U F1	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 08/22/22 13:43	08/23/22 11:36 Analyzed 08/22/22 22:36	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U RO) (GC) Qualifier U F1 U F1	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 13:43 08/22/22 13:43	08/23/22 11:36 Analyzed 08/22/22 22:36 08/22/22 22:36	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U RO) (GC) Qualifier U F1 U F1	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 13:43 08/22/22 13:43	08/23/22 11:36 Analyzed 08/22/22 22:36 08/22/22 22:36	Dil Face
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9	Qualifier U RO) (GC) Qualifier U F1 U F1 U Qualifier	49.9 RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 13:43 08/22/22 13:43 08/22/22 13:43 Prepared	08/23/22 11:36 Analyzed 08/22/22 22:36 08/22/22 22:36 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U RO) (GC) Qualifier U F1 U F1 U Gualifier S1-	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 13:43 08/22/22 13:43 08/22/22 13:43 Prepared 08/22/22 13:43	08/23/22 11:36 Analyzed 08/22/22 22:36 08/22/22 22:36 Analyzed 08/22/22 22:36	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.9	Qualifier U RO) (GC) Qualifier U F1 U F1 U Gualifier S1-	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 08/22/22 13:43 08/22/22 13:43 08/22/22 13:43 Prepared 08/22/22 13:43	08/23/22 11:36 Analyzed 08/22/22 22:36 08/22/22 22:36 Analyzed 08/22/22 22:36	Dil Fac

Client Sample ID: BH-124 (8')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 00:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 00:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 00:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/30/22 12:01	09/01/22 00:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 00:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/30/22 12:01	09/01/22 00:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130				08/30/22 12:01	09/01/22 00:20	1

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Lab Sample ID: 890-2784-2

Job ID: 890-2784-1

SDG: Lea County NM

Lab Sample ID: 890-2784-2

Matrix: Solid

Client Sample ID: BH-124 (8') Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 8

Method: 8021B - Volatile Organic Con	noounds (GC)	(Continued)
motifical collision of gains con	ipodiido (OO)	(Continuou,

Surrogate	%Recovery Qualifie	r Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	85	70 - 130	08/30/22 12:01	09/01/22 00:20	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	mg/Kg			09/01/22 12:44	1

Mothod: 8015 NM - D	iceal Range Organics	(DRO) (GC)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	ma/K	.a		08/23/22 11:36	1

Method: 8015E	NM - Diesel	Range Organics	(DRO) (GC)
modifica. ou for	THE DIGGOI	itunge organios	(5110) (50)

Analyte	-	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/22/22 13:43	08/22/22 23:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/22/22 13:43	08/22/22 23:41	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 13:43	08/22/22 23:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	58	S1-	70 - 130				08/22/22 13:43	08/22/22 23:41	1

1-Chlorooctane	58 S1-	70 - 130
o-Terphenyl	71	70 - 130

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Chloride	298		5.02		mg/Kg			08/29/22 04:20	1

298 Chloride

Client Sample ID: BH-132 (8') Lab Sample ID: 890-2784-3

Date Collected: 08/18/22 00:00 **Matrix: Solid** Date Received: 08/19/22 08:00

Sample Depth: 8

moniou coziz rolanic organi	o oompoundo (,							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:01	09/01/22 00:41	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:01	09/01/22 00:41	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:01	09/01/22 00:41	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/30/22 12:01	09/01/22 00:41	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:01	09/01/22 00:41	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/30/22 12:01	09/01/22 00:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				08/30/22 12:01	09/01/22 00:41	1
1,4-Difluorobenzene (Surr)	91		70 - 130				08/30/22 12:01	09/01/22 00:41	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00403	U	0.00403	ma/Ka			09/01/22 12:44	1

Analyte	•	•	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total TPH			<50.0	U	50.0		mg/Kg			08/23/22 11:36	1

Lab Sample ID: 890-2784-3

Lab Sample ID: 890-2784-4

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-132 (8')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 00:03	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 00:03	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 00:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130				08/22/22 13:43	08/23/22 00:03	1
o-Terphenyl	80		70 - 130				08/22/22 13:43	08/23/22 00:03	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	325		5.00		mg/Kg			08/29/22 04:28	1

Client Sample ID: BH-159 (8')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:01	09/01/22 01:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:01	09/01/22 01:01	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		08/30/22 12:01	09/01/22 01:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/30/22 12:01	09/01/22 01:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:01	09/01/22 01:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/30/22 12:01	09/01/22 01:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				08/30/22 12:01	09/01/22 01:01	1
1,4-Difluorobenzene (Surr)	80		70 - 130				08/30/22 12:01	09/01/22 01:01	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/01/22 12:44	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/23/22 11:36	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/22/22 13:43	08/23/22 00:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/22/22 13:43	08/23/22 00:24	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 13:43	08/23/22 00:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130				08/22/22 13:43	08/23/22 00:24	1
o-Terphenyl	82		70 ₋ 130				08/22/22 13:43	08/23/22 00:24	1

Job ID: 890-2784-1

SDG: Lea County NM

Client Sample ID: BH-159 (8')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 8

Lab Sample ID: 890-2784-4

Matrix: Solid

Method: 300.0 - Anions, Ion Chroma	atography - Soli	uble						
Analyte	Result Qua	alifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1010	25.0		mg/Kg			08/29/22 04:35	5

Client Sample ID: BH-162 (8') Lab Sample ID: 890-2784-5

Date Collected: 08/18/22 00:00 **Matrix: Solid**

Date Received: 08/19/22 08:00

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 01:21	
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 01:21	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 01:21	
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/30/22 12:01	09/01/22 01:21	
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 01:21	
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/30/22 12:01	09/01/22 01:21	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	121		70 - 130				08/30/22 12:01	09/01/22 01:21	
1,4-Difluorobenzene (Surr)	89		70 - 130				08/30/22 12:01	09/01/22 01:21	1
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00401	U	0.00401		mg/Kg			09/01/22 12:44	1
Method: 8015 NM - Diesel Range Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0		mg/Kg			08/23/22 11:36	
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 00:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 00:45	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 00:45	
			Limits				Prepared	Analyzed	Dil Fa
Surrogate	%Recovery	Qualifier	Lillits						
Surrogate 1-Chlorooctane		Qualifier S1-	70 - 130				08/22/22 13:43	08/23/22 00:45	1
1-Chlorooctane							08/22/22 13:43 08/22/22 13:43	08/23/22 00:45 08/23/22 00:45	
	68 82	S1-	70 - 130						1
1-Chlorooctane o-Terphenyl	68 82 omatography -	S1-	70 - 130	MDL	Unit	D_			Dil Fac

Lab Sample ID: 890-2784-6

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-164 (8')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 01:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 01:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 01:42	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/30/22 12:01	09/01/22 01:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 01:42	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/30/22 12:01	09/01/22 01:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				08/30/22 12:01	09/01/22 01:42	1
1,4-Difluorobenzene (Surr)	100		70 - 130				08/30/22 12:01	09/01/22 01:42	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/01/22 12:44	1
Analyte Total TPH	92.4	Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/23/22 11:36	Dil Fac
Total TPH	92.4		49.9		mg/Kg			08/23/22 11:36	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
•		RO) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics		Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared 08/22/22 13:43	Analyzed 08/23/22 01:06	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier		MDL		<u>D</u>	<u>·</u>		1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9	Qualifier U	49.9	MDL	mg/Kg	<u>D</u>	08/22/22 13:43	08/23/22 01:06	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U	49.9	MDL	mg/Kg	<u>D</u>	08/22/22 13:43 08/22/22 13:43	08/23/22 01:06 08/23/22 01:06	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	Result	Qualifier U	49.9 49.9 49.9	MDL	mg/Kg	<u>D</u>	08/22/22 13:43 08/22/22 13:43 08/22/22 13:43	08/23/22 01:06 08/23/22 01:06 08/23/22 01:06	1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U U Qualifier	49.9 49.9 49.9 <i>Limits</i>	MDL	mg/Kg	<u> </u>	08/22/22 13:43 08/22/22 13:43 08/22/22 13:43 Prepared	08/23/22 01:06 08/23/22 01:06 08/23/22 01:06 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U Qualifier S1-	49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg	<u> </u>	08/22/22 13:43 08/22/22 13:43 08/22/22 13:43 Prepared 08/22/22 13:43	08/23/22 01:06 08/23/22 01:06 08/23/22 01:06 Analyzed 08/23/22 01:06	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U Qualifier S1-	49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	08/22/22 13:43 08/22/22 13:43 08/22/22 13:43 Prepared 08/22/22 13:43	08/23/22 01:06 08/23/22 01:06 08/23/22 01:06 Analyzed 08/23/22 01:06	

Client Sample ID: BH-166 (8')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:01	09/01/22 02:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:01	09/01/22 02:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:01	09/01/22 02:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/30/22 12:01	09/01/22 02:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:01	09/01/22 02:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/30/22 12:01	09/01/22 02:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				08/30/22 12:01	09/01/22 02:02	1

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Lab Sample ID: 890-2784-7

Job ID: 890-2784-1 SDG: Lea County NM

Client Sample ID: BH-166 (8')

Date Received: 08/19/22 08:00

Lab Sample ID: 890-2784-7 Date Collected: 08/18/22 00:00

Matrix: Solid

Sample Depth: 8

Method: 8021B - Volatile Or	ganic Compo	ounds (GC)	(Continued)
modifical collins of	gaine comp.	Julius (55)	(Continuou,

Surrogate	%Recovery Qualifie	er Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	90	70 - 130	08/30/22 12:01	09/01/22 02:02	1

Method: Total	BTEX - Total	I BTEX Calculation	

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/01/22 12:44	1

Method: 8015 NM -	Diesel Range	Organics	(DRO) (GC)

Analyte		Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH		<50.0	U	50.0		mg/Kg			08/23/22 11:36	1

Method: 8015B	NM Discol	Dange Ore	aaniee (DD()) (CC)
MICHIOU. OU IOD	INIVI - DIESEI	Rallue Oli	ualiics lunc	JI (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 01:27	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 01:27	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 01:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

1-Chlorooctane	59 S1-	70 - 130
o-Terphenyl	71	70 - 130

Method: 300.0 - Anions, Ion Chrom	atography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac

Allalyte		idililei KL	MDL UIII	U	Frepareu	Allalyzeu	DII Fac
Chloride	233	4.96	mg/Kg			08/29/22 05:30	1

Client Sample ID: BH-167 (8')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 8

Method: 8021B -	Volatile Organic	c Compounds (GC)

wethout ouz 16 - volatile Orga	nic Compounds ((66)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 02:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 02:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 02:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/30/22 12:01	09/01/22 02:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 02:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/30/22 12:01	09/01/22 02:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				08/30/22 12:01	09/01/22 02:23	1
1,4-Difluorobenzene (Surr)	90		70 - 130				08/30/22 12:01	09/01/22 02:23	1

Mothod:	Total RT	Y - Total I	RTEY Ca	lculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			09/01/22 12:44	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			08/23/22 11:36	1

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08/22/22 13:43

08/23/22 01:27

Lab Sample ID: 890-2784-8

Lab Sample ID: 890-2784-8

Lab Sample ID: 890-2784-9

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-167 (8')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 8

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 01:49	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 01:49	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 01:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	61	S1-	70 - 130				08/22/22 13:43	08/23/22 01:49	1
o-Terphenyl	70		70 - 130				08/22/22 13:43	08/23/22 01:49	1
— Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	404		4.95		mg/Kg			08/29/22 05:38	1

Client Sample ID: BH-168 (5')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:01	09/01/22 02:43	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:01	09/01/22 02:43	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:01	09/01/22 02:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/30/22 12:01	09/01/22 02:43	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:01	09/01/22 02:43	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/30/22 12:01	09/01/22 02:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				08/30/22 12:01	09/01/22 02:43	1
1,4-Difluorobenzene (Surr)	94		70 - 130				08/30/22 12:01	09/01/22 02:43	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/01/22 12:44	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/23/22 11:36	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/22/22 13:43	08/23/22 02:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/22/22 13:43	08/23/22 02:10	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 13:43	08/23/22 02:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	60	S1-	70 - 130				08/22/22 13:43	08/23/22 02:10	1
o-Terphenyl	71		70 ₋ 130				08/22/22 13:43	08/23/22 02:10	1

Job ID: 890-2784-1 SDG: Lea County NM

Lab Sample ID: 890-2784-9

Matrix: Solid

Client Sample ID: BH-168 (5') Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 5

	Method: 300.0 - Anions, Ion Chromatography - Soluble											
1	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
L	Chloride	354		4.98		mg/Kg			08/29/22 05:46	1		

Client Sample ID: BH-169 (5') Lab Sample ID: 890-2784-10 Matrix: Solid

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:01	09/01/22 03:04	
Toluene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:01	09/01/22 03:04	,
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:01	09/01/22 03:04	
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/30/22 12:01	09/01/22 03:04	
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:01	09/01/22 03:04	•
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/30/22 12:01	09/01/22 03:04	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	128		70 - 130				08/30/22 12:01	09/01/22 03:04	
1,4-Difluorobenzene (Surr)	84		70 - 130				08/30/22 12:01	09/01/22 03:04	
· Method: Total BTEX - Total BTE)	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00404	U	0.00404		mg/Kg			09/01/22 12:44	
Method: 8015 NM - Diesel Range	•								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	80.5		50.0		mg/Kg			08/23/22 11:36	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 02:31	1
Diesel Range Organics (Over C10-C28)	80.5		50.0		mg/Kg		08/22/22 13:43	08/23/22 02:31	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 02:31	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	56	S1-	70 - 130				08/22/22 13:43	08/23/22 02:31	
o-Terphenyl	69	S1-	70 - 130				08/22/22 13:43	08/23/22 02:31	
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	382		4.98		mg/Kg			08/29/22 05:54	1

Lab Sample ID: 890-2784-11

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-170 (5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 5

	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 04:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 04:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 04:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/30/22 12:01	09/01/22 04:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 04:25	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/30/22 12:01	09/01/22 04:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130				08/30/22 12:01	09/01/22 04:25	1
1,4-Difluorobenzene (Surr)	87		70 - 130				08/30/22 12:01	09/01/22 04:25	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/01/22 12:44	1
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9								
	\49.9	U	49.9		mg/Kg			08/23/22 11:36	
Method: 8015B NM - Diesel Ran			49.9		mg/Kg			08/23/22 11:36	
	ge Organics (D		49.9 RL	MDL			Prepared	08/23/22 11:36 Analyzed	1
Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier		MDL		D	Prepared 08/22/22 13:43		Dil Fac
Method: 8015B NM - Diesel Randanalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D	RO) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	<u>·</u>	Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (D Result <49.9	RO) (GC) Qualifier U	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	08/22/22 13:43	Analyzed 08/23/22 03:14	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <49.9	RO) (GC) Qualifier U	RL 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	08/22/22 13:43 08/22/22 13:43	Analyzed 08/23/22 03:14 08/23/22 03:14	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D Result <49.9 <49.9	RO) (GC) Qualifier U	RL 49.9 49.9 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	08/22/22 13:43 08/22/22 13:43 08/22/22 13:43	Analyzed 08/23/22 03:14 08/23/22 03:14 08/23/22 03:14	Dil Face 1 1 1 Dil Face
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	ge Organics (D Result <49.9 <49.9 <49.9 **Recovery** 57	RO) (GC) Qualifier U U Qualifier	RL 49.9 49.9 49.9 <i>Limits</i>	MDL	Unit mg/Kg mg/Kg	<u>D</u>	08/22/22 13:43 08/22/22 13:43 08/22/22 13:43 Prepared	Analyzed 08/23/22 03:14 08/23/22 03:14 08/23/22 03:14 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	ge Organics (D Result <49.9 <49.9 <49.9 **Recovery** 57 66	RO) (GC) Qualifier U U Qualifier S1- S1-	RL 49.9 49.9 49.9 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	08/22/22 13:43 08/22/22 13:43 08/22/22 13:43 Prepared 08/22/22 13:43	Analyzed 08/23/22 03:14 08/23/22 03:14 08/23/22 03:14 Analyzed 08/23/22 03:14	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	ge Organics (D Result <49.9 <49.9 <49.9 **Recovery 57 66 omatography -	RO) (GC) Qualifier U U Qualifier S1- S1-	RL 49.9 49.9 49.9 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	08/22/22 13:43 08/22/22 13:43 08/22/22 13:43 Prepared 08/22/22 13:43	Analyzed 08/23/22 03:14 08/23/22 03:14 08/23/22 03:14 Analyzed 08/23/22 03:14	Dil Fac

Client Sample ID: BH-171 (5')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:01	09/01/22 04:46	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:01	09/01/22 04:46	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:01	09/01/22 04:46	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/30/22 12:01	09/01/22 04:46	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:01	09/01/22 04:46	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/30/22 12:01	09/01/22 04:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				08/30/22 12:01	09/01/22 04:46	1

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Matrix: Solid

Lab Sample ID: 890-2784-12

Job ID: 890-2784-1 SDG: Lea County NM

Lab Sample ID: 890-2784-12

Matrix: Solid

Client Sample ID: BH-171 (5') Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 5

Method: 8021B - Volatile Organic Compounds	(GC) (Continued)
Method. 002 1D - Volatile Organic Compounds	(OO) (Oolillillided)

Surrogate	%Recovery Qua	alifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	84	70 - 130	08/30/22 12:01	09/01/22 04:46	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00396	U	0.00396		mg/Kg			09/01/22 12:44	1

Method: 8015 NM - Diesel Range Organics (DRO) (CCI	
Method: 0013 MM - Dieser Range Organics (DRO) (50,	

Analyte	Result	Qualifier	RL	MDL U	nit	D	Prepared	Analyzed	Dil Fac
Total TPH	75.0		50.0	m	g/Kg			08/23/22 11:36	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 03:35	1
Diesel Range Organics (Over C10-C28)	75.0		50.0		mg/Kg		08/22/22 13:43	08/23/22 03:35	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 03:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

1-Chlorooctane	70	70 - 130
o-Terphenyl	84	70 - 130

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepare	d Analyzed	Dil Fac
Chloride	180		5.04		mg/Kg			08/29/22 06:10	1

Client Sample ID: BH-172 (6')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 6

Mothod: 9021D	Volatile Organie	Compounds (GC)
I WIELIIOU. OUZ ID '	- voiatile Organic	Compounds (GC)

Qualifier U	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
U					Allalyzou	Diriac
	0.00201	mg/Kg		08/30/22 12:01	09/01/22 05:06	1
I U	0.00201	mg/Kg		08/30/22 12:01	09/01/22 05:06	1
I U	0.00201	mg/Kg		08/30/22 12:01	09/01/22 05:06	1
2 U	0.00402	mg/Kg		08/30/22 12:01	09/01/22 05:06	1
I U	0.00201	mg/Kg		08/30/22 12:01	09/01/22 05:06	1
2 U	0.00402	mg/Kg		08/30/22 12:01	09/01/22 05:06	1
/ Qualifier	Limits			Prepared	Analyzed	Dil Fac
4	70 - 130			08/30/22 12:01	09/01/22 05:06	1
)	70 - 130			08/30/22 12:01	09/01/22 05:06	1
1	1 U 1 U 2 U 1 U 2 U	1 U 0.00201 1 U 0.00201 2 U 0.00402 1 U 0.00201 2 U 0.00402 4 Qualifier Limits 70 - 130	1 U 0.00201 mg/Kg 1 U 0.00201 mg/Kg 2 U 0.00402 mg/Kg 1 U 0.00201 mg/Kg 2 U 0.00402 mg/Kg 2 U 0.00402 mg/Kg 2 U 0.00402 mg/Kg	1 U 0.00201 mg/Kg 1 U 0.00201 mg/Kg 2 U 0.00402 mg/Kg 1 U 0.00201 mg/Kg 2 U 0.00402 mg/Kg 2 U 0.00402 mg/Kg 2 U 0.00402 mg/Kg	1 U 0.00201 mg/Kg 08/30/22 12:01 1 U 0.00201 mg/Kg 08/30/22 12:01 2 U 0.00402 mg/Kg 08/30/22 12:01 1 U 0.00201 mg/Kg 08/30/22 12:01 2 U 0.00402 mg/Kg 08/30/22 12:01 2 U 0.00402 mg/Kg 08/30/22 12:01 2 U 0.00402 mg/Kg 08/30/22 12:01 3 Q Qualifier Limits Prepared 08/30/22 12:01	1 U 0.00201 mg/Kg 08/30/22 12:01 09/01/22 05:06 1 U 0.00201 mg/Kg 08/30/22 12:01 09/01/22 05:06 2 U 0.00402 mg/Kg 08/30/22 12:01 09/01/22 05:06 1 U 0.00201 mg/Kg 08/30/22 12:01 09/01/22 05:06 2 U 0.00402 mg/Kg 08/30/22 12:01 09/01/22 05:06 2 U 0.00402 mg/Kg 08/30/22 12:01 09/01/22 05:06 2 V Qualifier Limits Prepared Analyzed 4 70 - 130 09/01/22 05:06

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00402	U	0.00402		ma/Ka			09/01/22 12:44	1

	Method: 8015 NM - Diesel	Range Organics (DRO) (GC)
ı	Michiga. 00 to Min - Diese	i italige Organics (Dito	, (00)

Analyte	•	•	Result	Qualifier	RL	MDL Ur	nit	D	Prepared	Analyzed	Dil Fac
Total TPH			<49.9	U	49.9	mg	a/Ka			08/23/22 11:36	1

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08/22/22 13:43

08/22/22 13:43

08/23/22 03:35

08/23/22 03:35

Lab Sample ID: 890-2784-13

Lab Sample ID: 890-2784-13

Lab Sample ID: 890-2784-14

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-172 (6')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 6

Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		08/22/22 13:43	08/23/22 03:56	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		08/22/22 13:43	08/23/22 03:56	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 13:43	08/23/22 03:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130				08/22/22 13:43	08/23/22 03:56	1
o-Terphenyl	84		70 - 130				08/22/22 13:43	08/23/22 03:56	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	253		5.02		mg/Kg			08/29/22 06:17	1

Client Sample ID: BH-173 (6')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 05:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 05:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 05:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/30/22 12:01	09/01/22 05:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 05:26	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/30/22 12:01	09/01/22 05:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				08/30/22 12:01	09/01/22 05:26	1
1,4-Difluorobenzene (Surr)	90		70 - 130				08/30/22 12:01	09/01/22 05:26	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/01/22 12:44	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/23/22 11:36	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 04:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 04:17	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 04:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	63	S1-	70 - 130				08/22/22 13:43	08/23/22 04:17	1

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9/1/2022

Job ID: 890-2784-1

SDG: Lea County NM

Client Sample ID: BH-173 (6')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 6

Lab Sample ID: 890-2784-14

08/23/22 11:36

Matrix: Solid

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	329		4.95		mg/Kg			08/29/22 07:20	1

Client Sample ID: BH-174 (6') Lab Sample ID: 890-2784-15 **Matrix: Solid**

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Method: Total BTEX - Total BTEX Calculation

Sample Depth: 6

Total TPH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00196	U	0.00196		mg/Kg		08/30/22 12:01	09/01/22 05:47	1
Toluene	<0.00196	U	0.00196		mg/Kg		08/30/22 12:01	09/01/22 05:47	1
Ethylbenzene	<0.00196	U	0.00196		mg/Kg		08/30/22 12:01	09/01/22 05:47	1
m-Xylene & p-Xylene	<0.00393	U	0.00393		mg/Kg		08/30/22 12:01	09/01/22 05:47	1
o-Xylene	<0.00196	U	0.00196		mg/Kg		08/30/22 12:01	09/01/22 05:47	1
Xylenes, Total	<0.00393	U	0.00393		mg/Kg		08/30/22 12:01	09/01/22 05:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130				08/30/22 12:01	09/01/22 05:47	1
1,4-Difluorobenzene (Surr)	81		70 - 130				08/30/22 12:01	09/01/22 05:47	1

Analyte Total BTEX	Result Qualifier			Jnit ng/Kg	D Prep	Pared Analyzed 09/01/22 12:44	Dil Fac
Method: 8015 NM - Diesel Range O	rganics (DRO) (GC)	RI.	MDL U	Init	D Pren	pared Analyzed	Dil Fac

50.0

mg/Kg

<50.0 U

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 04:38	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 04:38	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 04:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	64	S1-	70 - 130				08/22/22 13:43	08/23/22 04:38	1
o-Terphenyl	76		70 - 130				08/22/22 13:43	08/23/22 04:38	1

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	131		5.01		mg/Kg			08/29/22 07:44	1

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Lab Sample ID: 890-2784-16

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-175 (4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:01	09/01/22 06:07	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:01	09/01/22 06:07	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:01	09/01/22 06:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/30/22 12:01	09/01/22 06:07	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:01	09/01/22 06:07	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/30/22 12:01	09/01/22 06:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				08/30/22 12:01	09/01/22 06:07	1
1,4-Difluorobenzene (Surr)	92		70 - 130				08/30/22 12:01	09/01/22 06:07	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/01/22 12:44	1
Method: 8015 NM - Diesel Range			ъ.			_			5.1.5
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/23/22 11:36	
Analyte	Result <49.9	Qualifier U		MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result <49.9 ge Organics (Di	Qualifier U				<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <49.9 ge Organics (Di	Qualifier U RO) (GC) Qualifier	49.9		mg/Kg			08/23/22 11:36	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 ge Organics (Dige Result	Qualifier U RO) (GC) Qualifier U	49.9		mg/Kg		Prepared	08/23/22 11:36 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (D) Result <49.9 49.9	Qualifier U RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 08/22/22 13:43	08/23/22 11:36 Analyzed 08/23/22 04:59	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 13:43 08/22/22 13:43	08/23/22 11:36 Analyzed 08/23/22 04:59 08/23/22 04:59	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 13:43 08/22/22 13:43	08/23/22 11:36 Analyzed 08/23/22 04:59 08/23/22 04:59 08/23/22 04:59	Dil Face 1 1 1 1 Dil Face
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9	Qualifier U RO) (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 13:43 08/22/22 13:43 08/22/22 13:43 Prepared	08/23/22 11:36 Analyzed 08/23/22 04:59 08/23/22 04:59 08/23/22 04:59 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U RO) (GC) Qualifier U U Qualifier S1-	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 13:43 08/22/22 13:43 08/22/22 13:43 Prepared 08/22/22 13:43	08/23/22 11:36 Analyzed 08/23/22 04:59 08/23/22 04:59 Analyzed 08/23/22 04:59	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.9	Qualifier U RO) (GC) Qualifier U U Qualifier S1-	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 08/22/22 13:43 08/22/22 13:43 08/22/22 13:43 Prepared 08/22/22 13:43	08/23/22 11:36 Analyzed 08/23/22 04:59 08/23/22 04:59 Analyzed 08/23/22 04:59	Dil Fac

Client Sample ID: BH-176 (4.5')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 06:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 06:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 06:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/30/22 12:01	09/01/22 06:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 06:28	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/30/22 12:01	09/01/22 06:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				08/30/22 12:01	09/01/22 06:28	1

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Lab Sample ID: 890-2784-17

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Job ID: 890-2784-1

SDG: Lea County NM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Client Sample ID: BH-176 (4.5') Lab Sample ID: 890-2784-17

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5

Method: 8021B - Volatile Organic Con	noounds (GC)	(Continued)
motifical collision of gains con	ipodiido (OO)	(Continuou,

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	91		70 - 130	08/30/22 12:01	09/01/22 06:28	1

Mathad:	Total	RTFY.	. Total	RTEY	Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	ma/Ka			09/01/22 12:44	1

Method: 8015 NM - Diesel Range Organics	(DPO) (GC)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			08/23/22 11:36	1

Method: 8015B	NM Discol	Dange Ore	aaniee (DD()) (CC)
MICHIOU. OU IOD	INIVI - DIESEI	Rallue Oli	ualiics lunc	JI (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 05:21	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 05:21	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 05:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

1-Chlorooctane	58 S1-	70 - 130
o-Terphenyl	69 S1-	70 - 130

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	554	5.05	mg/Kg		-	08/29/22 08:00	1		

Chloride 554

Client Sample ID: BH-177 (4.5') Lab Sample ID: 890-2784-18

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5

Michiga. 002 1D - Volatile Orga	(30)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:01	09/01/22 06:48	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:01	09/01/22 06:48	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:01	09/01/22 06:48	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/30/22 12:01	09/01/22 06:48	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:01	09/01/22 06:48	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/30/22 12:01	09/01/22 06:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				08/30/22 12:01	09/01/22 06:48	1
1,4-Difluorobenzene (Surr)	93		70 - 130				08/30/22 12:01	09/01/22 06:48	1

Method:	Total RTF	X - Total RTFX	Calculation

Analyte	Result Qu	ualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403 U	0.00403	ma/Ka			09/01/22 12:44	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			08/23/22 11:36	1

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08/22/22 13:43

08/22/22 13:43

08/23/22 05:21

08/23/22 05:21

Lab Sample ID: 890-2784-18

Lab Sample ID: 890-2784-19

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-177 (4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		08/22/22 13:43	08/23/22 05:42	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		08/22/22 13:43	08/23/22 05:42	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 13:43	08/23/22 05:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	59	S1-	70 - 130				08/22/22 13:43	08/23/22 05:42	1
o-Terphenyl	73		70 - 130				08/22/22 13:43	08/23/22 05:42	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH-178 (4.5')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 07:09	
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 07:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 07:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/30/22 12:01	09/01/22 07:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 07:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/30/22 12:01	09/01/22 07:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				08/30/22 12:01	09/01/22 07:09	1
1,4-Difluorobenzene (Surr)	88		70 - 130				08/30/22 12:01	09/01/22 07:09	1
Method: Total BTEX - Total BTE	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			09/01/22 12:44	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/23/22 11:36	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 06:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 06:03	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 06:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
		S1-	70 - 130				08/22/22 13:43	08/23/22 06:03	
1-Chlorooctane	60	31-	70 - 130				00/22/22 13.43	00/23/22 00.03	,

Job ID: 890-2784-1

SDG: Lea County NM

Client Sample ID: BH-178 (4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5

Lab Sample ID: 890-2784-19

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	632		5.02		mg/Kg			08/29/22 08:31	1

Client Sample ID: BH-179 (4.5') Lab Sample ID: 890-2784-20

Date Collected: 08/18/22 00:00 Matrix: Solid

Date Received: 08/19/22 08:00

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:01	09/01/22 07:29	
Toluene	< 0.00201	U	0.00201		mg/Kg		08/30/22 12:01	09/01/22 07:29	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:01	09/01/22 07:29	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/30/22 12:01	09/01/22 07:29	
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:01	09/01/22 07:29	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/30/22 12:01	09/01/22 07:29	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	119		70 - 130				08/30/22 12:01	09/01/22 07:29	
1,4-Difluorobenzene (Surr)	90		70 - 130				08/30/22 12:01	09/01/22 07:29	
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/01/22 12:44	,
Method: 8015 NM - Diesel Range	•								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/23/22 11:36	1
Method: 8015B NM - Diesel Rang	•								
Analyte		Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 06:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 06:24	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 06:24	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	60	S1-	70 - 130				08/22/22 13:43	08/23/22 06:24	1
o-Terphenyl	75		70 - 130				08/22/22 13:43	08/23/22 06:24	
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-2784-21

Client: Tetra Tech, Inc.

Job ID: 890-2784-1
Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-180 (4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:16	08/31/22 18:05	
Toluene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:16	08/31/22 18:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:16	08/31/22 18:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/30/22 12:16	08/31/22 18:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:16	08/31/22 18:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/30/22 12:16	08/31/22 18:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				08/30/22 12:16	08/31/22 18:05	
1,4-Difluorobenzene (Surr)	106		70 - 130				08/30/22 12:16	08/31/22 18:05	1
- Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/01/22 12:44	1
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/23/22 11:36	Dil Fac
- -			49.9		mg/ivg			00/25/22 11.50	'
Method: 8015B NM - Diesel Rang	• •	, , ,				_			
Analyte	Result	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	
									Dil Fac
5 5	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 13:21	Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over				2	mg/Kg mg/Kg		08/22/22 16:33 08/22/22 16:33	08/24/22 13:21 08/24/22 13:21	
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	52					
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	<49.9 <49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 13:21	
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)	<49.9 <49.9 <49.9	U	49.9 49.9 49.9		mg/Kg		08/22/22 16:33 08/22/22 16:33	08/24/22 13:21 08/24/22 13:21	Dil Fa
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.9 <49.9 <49.9 %Recovery	U	49.9 49.9 49.9 <i>Limits</i>		mg/Kg		08/22/22 16:33 08/22/22 16:33 Prepared	08/24/22 13:21 08/24/22 13:21 Analyzed	Dil Fa
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.9 <49.9 <49.9 %Recovery 117 114	U U Qualifier	49.9 49.9 49.9 Limits 70 - 130		mg/Kg		08/22/22 16:33 08/22/22 16:33 Prepared 08/22/22 16:33	08/24/22 13:21 08/24/22 13:21 Analyzed 08/24/22 13:21	
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<49.9 <49.9 <49.9 **Recovery 117 114 **Domatography -	U U Qualifier	49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg	D	08/22/22 16:33 08/22/22 16:33 Prepared 08/22/22 16:33	08/24/22 13:21 08/24/22 13:21 Analyzed 08/24/22 13:21	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client Sample ID: BH-181 (4.5')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:16	08/31/22 18:25	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:16	08/31/22 18:25	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:16	08/31/22 18:25	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		08/30/22 12:16	08/31/22 18:25	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:16	08/31/22 18:25	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		08/30/22 12:16	08/31/22 18:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				08/30/22 12:16	08/31/22 18:25	

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Lab Sample ID: 890-2784-22

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2784-1

SDG: Lea County NM

Lab Sample ID: 890-2784-22

Client Sample ID: BH-181 (4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5

Method: 8021B.	Volatile Orga	nic Compounds	(GC) (Continued)

Surrogate	%Recovery Q	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	105	70 - 130	08/30/22 12:16	08/31/22 18:25	1

ı	Mothodi	Total DTEV	- Total BTEX	Coloulation
ı	wethou.	TOTAL DIEV	- IUIAI DIEA	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg		_	09/01/22 12:44	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/23/22 11:36	1

Method: 8015B	NM Discol	Dange Ore	aaniee (DD()) (CC)
MICHIOU. OU IOD	INIVI - DIESEI	Rallue Oli	ualiics lunc	JI (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 14:26	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 14:26	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 14:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130				08/22/22 16:33	08/24/22 14:26	1

1-Chlorooctane	114	70 - 130	
o-Terphenyl	110	70 - 130	

— Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1560		25.1		mg/Kg			08/29/22 08:54	5

Client Sample ID: BH-182 (4.5') Lab Sample ID: 890-2784-23

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5

Method: 8021B -	Volatile Organ	ic Compounds	(GC)
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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 18:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 18:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 18:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/30/22 12:16	08/31/22 18:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 18:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/30/22 12:16	08/31/22 18:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				08/30/22 12:16	08/31/22 18:46	1
1,4-Difluorobenzene (Surr)	108		70 - 130				08/30/22 12:16	08/31/22 18:46	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400 L	J	0.00400		ma/Ka			09/01/22 12:44	1

	Method: 8015 NM - Diesel	Range Organics (DRO) (GC)
ı	Michiga. 00 to Min - Diese	i italige Organics (Dito	, (00)

Analyte	•	•	Result	Qualifier	RL	MDL	Unit	D	Pr	epared	Analyzed	Dil Fac
Total TPH			<50.0	U	50.0		mg/Kg				08/23/22 11:36	1

Eurofins Carlsbad

Matrix: Solid

08/22/22 16:33

08/24/22 14:26

Lab Sample ID: 890-2784-23

Lab Sample ID: 890-2784-24

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-182 (4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/22/22 16:33	08/24/22 14:47	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		08/22/22 16:33	08/24/22 14:47	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 16:33	08/24/22 14:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				08/22/22 16:33	08/24/22 14:47	1
o-Terphenyl	97		70 - 130				08/22/22 16:33	08/24/22 14:47	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
	Popult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifici			•	_		, y = 0 a.	

Client Sample ID: BH-183 (4.5')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 19:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 19:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 19:06	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/30/22 12:16	08/31/22 19:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 19:06	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/30/22 12:16	08/31/22 19:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				08/30/22 12:16	08/31/22 19:06	1
1,4-Difluorobenzene (Surr)	108		70 - 130				08/30/22 12:16	08/31/22 19:06	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/01/22 12:44	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH			RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/23/22 11:36	Dil Fac
	<49.9	U		MDL		<u>D</u>	Prepared		
Total TPH	<49.9	U		MDL	mg/Kg	<u>D</u> 	Prepared Prepared		
Total TPH Method: 8015B NM - Diesel Rang	<49.9	RO) (GC) Qualifier	49.9		mg/Kg			08/23/22 11:36	1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<49.9 ge Organics (D Result	RO) (GC) Qualifier U	49.9		mg/Kg		Prepared	08/23/22 11:36 Analyzed	1 Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<pre><question="1"><49.9</question="1"></pre> <pre>ge Organics (D)</pre> <pre>Result</pre> <pre><49.9</pre>	U RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 08/22/22 16:33	08/23/22 11:36 Analyzed 08/24/22 15:17	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 ge Organics (D) Result <49.9 <49.9	U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 16:33 08/22/22 16:33	08/23/22 11:36 Analyzed 08/24/22 15:17 08/24/22 15:17	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9 ge Organics (D) Result <49.9 <49.9 <49.9	U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 16:33 08/22/22 16:33	08/23/22 11:36 Analyzed 08/24/22 15:17 08/24/22 15:17	1 Dil Fac

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H

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-2784-1

SDG: Lea County NM

Lab Sample ID: 890-2784-24

Client Sample ID: BH-183 (4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5

Method: 300.0 - Anions, Ion Chrom	Method: 300.0 - Anions, Ion Chromatography - Soluble											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	1050		4.97		mg/Kg			08/29/22 09:10	1			

Client Sample ID: BH-184 (4.5')

Date Collected: 08/18/22 00:00

Lab Sample ID: 890-2784-25

Matrix: Solid

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 19:26	
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 19:26	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 19:26	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/30/22 12:16	08/31/22 19:26	
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 19:26	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/30/22 12:16	08/31/22 19:26	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	93		70 - 130				08/30/22 12:16	08/31/22 19:26	
1,4-Difluorobenzene (Surr)	109		70 - 130				08/30/22 12:16	08/31/22 19:26	
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00400	U	0.00400		mg/Kg			09/01/22 12:44	
Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	
_		Qualifier		MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/23/22 11:36	
Analyte	Result <50.0	Qualifier U		MDL		<u>D</u>	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Ran	Result <50.0	Qualifier U				D	Prepared Prepared		Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics	Result <50.0	Qualifier U RO) (GC) Qualifier	50.0		mg/Kg			08/23/22 11:36	
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 ge Organics (D Result	Qualifier U RO) (GC) Qualifier U	50.0		mg/Kg		Prepared	08/23/22 11:36 Analyzed	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 Ge Organics (D) Result <50.0	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0		mg/Kg Unit mg/Kg		Prepared 08/22/22 16:33	08/23/22 11:36 Analyzed 08/24/22 16:17	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 16:33 08/22/22 16:33	08/23/22 11:36 Analyzed 08/24/22 16:17 08/24/22 16:17	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 16:33 08/22/22 16:33	08/23/22 11:36 Analyzed 08/24/22 16:17 08/24/22 16:17	Dil Fa
Analyte Total TPH	Result <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 16:33 08/22/22 16:33 08/22/22 16:33 Prepared	08/23/22 11:36 Analyzed 08/24/22 16:17 08/24/22 16:17 08/24/22 16:17 Analyzed	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0	Qualifier U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 16:33 08/22/22 16:33 08/22/22 16:33 Prepared 08/22/22 16:33	08/23/22 11:36 Analyzed 08/24/22 16:17 08/24/22 16:17 Analyzed 08/24/22 16:17	Dil Fa

Eurofins Carlsbad

08/29/22 09:34

5.05

mg/Kg

898

Chloride

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-185 (4.5') Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-2784-26

Matrix: Solid

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:16	08/31/22 19:47	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:16	08/31/22 19:47	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:16	08/31/22 19:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/30/22 12:16	08/31/22 19:47	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:16	08/31/22 19:47	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/30/22 12:16	08/31/22 19:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				08/30/22 12:16	08/31/22 19:47	1
1,4-Difluorobenzene (Surr)	110		70 - 130				08/30/22 12:16	08/31/22 19:47	1
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/01/22 12:44	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/23/22 11:36	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 16:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 16:39	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 16:39	1
_	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Surrogate	701 CCCVCI y								
1-Chlorooctane	116		70 - 130				08/22/22 16:33	08/24/22 16:39	1

Client Sample ID: BH-186 (4.5')

Method: 300.0 - Anions, Ion Chromatography - Soluble

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

REMOVED FROM ANALYSIS TABLE

Result Qualifier

588

Lab Sample ID: 890-2784-27

Analyzed

08/29/22 09:42

Matrix: Solid

Dil Fac

Sample Depth: 4.5

Analyte

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 20:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 20:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 20:07	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/30/22 12:16	08/31/22 20:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 20:07	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/30/22 12:16	08/31/22 20:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				08/30/22 12:16	08/31/22 20:07	1

RL

5.01

MDL Unit

mg/Kg

D

Prepared

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-186 (4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00 **REMOVED FROM ANALYSIS TABLE** Lab Sample ID: 890-2784-27

Lab Sample ID: 890-2784-28

Matrix: Solid

Matrix: Solid

Sample Depth: 4.5

Method: 8021B - Volatile Organic	Compounds	(GC)	(Continued)
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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	108		70 - 130	08/30/22 12:16	08/31/22 20:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			09/01/22 12:44	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL Un	it	D	Prepared	Analyzed	Dil Fac
Total TPH	914		50.0	mg	/Kg			08/23/22 11:36	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/22/22 16:33	08/24/22 18:48	1
(GRO)-C6-C10									
Diesel Range Organics (Over	914		50.0		mg/Kg		08/22/22 16:33	08/24/22 18:48	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 16:33	08/24/22 18:48	1
Surveyeds	9/ D agayamı	Ovalifian	Limita				Dranavad	Amalumad	Dil Fac
Surrogate	- %Recovery	Qualifier	Limits				Prepared	Analyzea	Dil Fac
1-Chlorooctane	92		70 - 130				08/22/22 16:33	08/24/22 18:48	1
	Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Gasoline Range Organics <50.0 (GRO)-C6-C10 Diesel Range Organics (Over 914 C10-C28) Oll Range Organics (Over C28-C36) <50.0 Surrogate %Recovery	Gasoline Range Organics <50.0 U (GRO)-C6-C10 Diesel Range Organics (Over 914 C10-C28) Oll Range Organics (Over C28-C36) <50.0 U Surrogate %Recovery Qualifier	Gasoline Range Organics <50.0	Gasoline Range Organics <50.0 U	Gasoline Range Organics <50.0	Gasoline Range Organics <50.0 U	Gasoline Range Organics <50.0 U	Gasoline Range Organics

-	
Method: 300.0 - Anions,	Ion Chromatography - Soluble

91

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1050	24.8	mg/Kg		_	08/29/22 10:05	5

70 - 130

Client Sample ID: BH-187 (4.5')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 4.5

o-Terphenyl

Mathadi 0004D	Valatile Overen	ic Compounds (GC)
Memoo: Auzib	- voianie Urdan	ic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:16	08/31/22 20:28	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:16	08/31/22 20:28	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:16	08/31/22 20:28	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/30/22 12:16	08/31/22 20:28	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:16	08/31/22 20:28	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/30/22 12:16	08/31/22 20:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				08/30/22 12:16	08/31/22 20:28	1
1,4-Difluorobenzene (Surr)	107		70 - 130				08/30/22 12:16	08/31/22 20:28	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			09/01/22 12:44	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			08/23/22 11:36	1

Lab Sample ID: 890-2784-28

Lab Sample ID: 890-2784-29

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2784-1
Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-187 (4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 17:01	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 17:01	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 17:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				08/22/22 16:33	08/24/22 17:01	1
o-Terphenyl	97		70 - 130				08/22/22 16:33	08/24/22 17:01	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Welliou. 300.0 - Allions, Ion Cili									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH-188 (4.5')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 20:48	
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 20:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 20:48	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/30/22 12:16	08/31/22 20:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 20:48	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/30/22 12:16	08/31/22 20:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				08/30/22 12:16	08/31/22 20:48	1
1,4-Difluorobenzene (Surr)	106		70 - 130				08/30/22 12:16	08/31/22 20:48	1
Method: Total BTEX - Total BTE	K Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/01/22 12:44	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/23/22 11:36	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/22/22 16:33	08/24/22 17:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/22/22 16:33	08/24/22 17:23	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 16:33	08/24/22 17:23	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
			70 - 130				08/22/22 16:33	08/24/22 17:23	
1-Chlorooctane	98		70 - 130				00/22/22 10.55	00/24/22 11.25	,

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Client Sample ID: BH-188 (4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5

Lab Sample ID: 890-2784-29

Matrix: Solid

Job ID: 890-2784-1

SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography - SolubleAnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FacChloride136025.0mg/Kg08/29/22 10:215

Client Sample ID: BH-189 (4.5')

Date Collected: 08/18/22 00:00

Lab Sample ID: 890-2784-30

Matrix: Solid

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

Oll Range Organics (Over C28-C36)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:16	08/31/22 22:59	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:16	08/31/22 22:59	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:16	08/31/22 22:59	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/30/22 12:16	08/31/22 22:59	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:16	08/31/22 22:59	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/30/22 12:16	08/31/22 22:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				08/30/22 12:16	08/31/22 22:59	1
								00/04/00 00 50	
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BT			70 - 130				08/30/22 12:16	08/31/22 22:59	7
•	TEX Calculation	Qualifier	70 - 130 RL 0.00396	MDL	Unit mg/Kg	<u>D</u>	08/30/22 12:16 Prepared	Analyzed 09/01/22 12:44	Dil Fac
Method: Total BTEX - Total BTAnalyte	Calculation Result <0.00396	U	RL	MDL		<u>D</u>		Analyzed	Dil Fac
Method: Total BTEX - Total BTAnalyte Total BTEX	FEX Calculation Result <0.00396 nge Organics (DR	U	RL			<u>D</u>		Analyzed	Dil Fac
Method: Total BTEX - Total BTAnalyte Total BTEX Method: 8015 NM - Diesel Rar	FEX Calculation Result <0.00396 nge Organics (DR	O) (GC) Qualifier	RL		mg/Kg	=	Prepared	Analyzed 09/01/22 12:44	1
Method: Total BTEX - Total BTAnalyte Total BTEX Method: 8015 NM - Diesel Rar Analyte	TEX Calculation Result <0.00396 nge Organics (DR) Result <49.8	O) (GC) Qualifier			mg/Kg	=	Prepared	Analyzed 09/01/22 12:44 Analyzed	1
Method: Total BTEX - Total BTAnalyte Total BTEX Method: 8015 NM - Diesel Ranalyte Total TPH	TEX Calculation Result <0.00396 nge Organics (DR) Result <49.8 ange Organics (D	O) (GC) Qualifier		MDL	mg/Kg	=	Prepared	Analyzed 09/01/22 12:44 Analyzed	1
Method: Total BTEX - Total BTAnalyte Total BTEX Method: 8015 NM - Diesel Ranalyte Total TPH Method: 8015B NM - Diesel Ranalyte	TEX Calculation Result <0.00396 nge Organics (DR) Result <49.8 ange Organics (D	O) (GC) Qualifier U RO) (GC) Qualifier	RL 0.00396 RL 49.8	MDL	mg/Kg Unit mg/Kg		Prepared Prepared	Analyzed 09/01/22 12:44 Analyzed 08/23/22 11:36	Dil Fac

Method: 300.0 - Anions, Ion Chrom	natography - 🤄	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	181		5.04		mg/Kg			08/29/22 10:29	1

49.8

Limits

70 - 130

70 - 130

mg/Kg

08/22/22 16:33

Prepared

08/22/22 16:33

08/22/22 16:33

08/24/22 17:44

Analyzed

08/24/22 17:44

08/24/22 17:44

<49.8 U

%Recovery Qualifier

95

93

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Dil Fac

Lab Sample ID: 890-2784-31

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-38 (4.5-13')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5 - 13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0404	U	0.0404		mg/Kg		08/30/22 12:16	08/31/22 21:09	20
Toluene	<0.0404	U	0.0404		mg/Kg		08/30/22 12:16	08/31/22 21:09	20
Ethylbenzene	<0.0404	U	0.0404		mg/Kg		08/30/22 12:16	08/31/22 21:09	20
m-Xylene & p-Xylene	<0.0808	U	0.0808		mg/Kg		08/30/22 12:16	08/31/22 21:09	20
o-Xylene	<0.0404	U	0.0404		mg/Kg		08/30/22 12:16	08/31/22 21:09	20
Xylenes, Total	<0.0808	U	0.0808		mg/Kg		08/30/22 12:16	08/31/22 21:09	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	100		70 - 130				08/30/22 12:16	08/31/22 21:09	20
1,4-Difluorobenzene (Surr)	87		70 - 130				08/30/22 12:16	08/31/22 21:09	20
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.0808	U	0.0808		mg/Kg			09/01/22 12:44	
						_			
Analyte Total TPH		Qualifier	RL 49.9	MDL	Unit ma/Ka	D	Prepared	Analyzed 08/23/22 11:36	
Total TPH	151	<u> </u>		MDL	Unit mg/Kg	<u>D</u>	Prepared		
Total TPH Method: 8015B NM - Diesel Rang	151 ge Organics (Di	RO) (GC)	49.9		mg/Kg			08/23/22 11:36	
Total TPH Method: 8015B NM - Diesel Rang Analyte	151 ge Organics (D	RO) (GC) Qualifier	49.9		mg/Kg	<u>D</u>	Prepared	08/23/22 11:36 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang	151 ge Organics (Di	RO) (GC) Qualifier	49.9		mg/Kg			08/23/22 11:36	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	151 ge Organics (D	RO) (GC) Qualifier	49.9		mg/Kg		Prepared	08/23/22 11:36 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (Di Result <49.9	RO) (GC) Qualifier	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 08/22/22 16:33	08/23/22 11:36 Analyzed 08/24/22 20:15	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (Di Result <49.9	RO) (GC) Qualifier U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 16:33 08/22/22 16:33	08/23/22 11:36 Analyzed 08/24/22 20:15 08/24/22 20:15	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	151 ge Organics (Di Result <49.9 151 <49.9	RO) (GC) Qualifier U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 16:33 08/22/22 16:33	08/23/22 11:36 Analyzed 08/24/22 20:15 08/24/22 20:15	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	151 ge Organics (Di Result <49.9 151 <49.9 %Recovery	RO) (GC) Qualifier U	49.9 RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 16:33 08/22/22 16:33 08/22/22 16:33 Prepared	08/23/22 11:36 Analyzed 08/24/22 20:15 08/24/22 20:15 Analyzed	Dil Fa
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	151 ge Organics (D) Result <49.9 151 <49.9 %Recovery 118 116	RO) (GC) Qualifier U	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 16:33 08/22/22 16:33 08/22/22 16:33 Prepared 08/22/22 16:33	08/23/22 11:36 Analyzed 08/24/22 20:15 08/24/22 20:15 Analyzed 08/24/22 20:15	Dil Fac
Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	151 ge Organics (D) Result	RO) (GC) Qualifier U	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 08/22/22 16:33 08/22/22 16:33 08/22/22 16:33 Prepared 08/22/22 16:33	08/23/22 11:36 Analyzed 08/24/22 20:15 08/24/22 20:15 Analyzed 08/24/22 20:15	Dil Fac

Client Sample ID: SW-42 (4.5-8')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5 - 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:16	08/31/22 23:19	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:16	08/31/22 23:19	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:16	08/31/22 23:19	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/30/22 12:16	08/31/22 23:19	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:16	08/31/22 23:19	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/30/22 12:16	08/31/22 23:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				08/30/22 12:16	08/31/22 23:19	1

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Matrix: Solid

Lab Sample ID: 890-2784-32

Lab Sample ID: 890-2784-32

Lab Sample ID: 890-2784-33

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2784-1
Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-42 (4.5-8')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5 - 8

Method: 8021B	 Volatile C 	Organic (Compounds	(GC) (Continu	ued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	106		70 - 130	08/30/22 12:16	08/31/22 23:19	

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			09/01/22 12:44	1

ı		
ı	Method: 8015 NM - Diesel Range Organics (DRO)	(CC)
ı	Method. 0013 NM - Diesel Kange Organics (DRO)	(00)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/23/22 11:36	1

Mothod: 004ED	NM - Diesel Ran	as Orasnico	
Method: out ob	NIVI - Diesei Kan	ue Organics	IDKUI IGGI

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 18:06	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 18:06	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 18:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				08/22/22 16:33	08/24/22 18:06	1

- 1				-1	
	1-Chlorooctane	119	70 - 130	08/22/22 16:33	08/24/22 18:06
Į	o-Terphenyl	113	70 - 130	08/22/22 16:33	08/24/22 18:06

Method: 300.0 - Anions, Ion Chron	natography -	Soluble								
Analyte	Result	Qualifier	RL	MDL	Unit	D	1	Prepared	Analyzed	Dil Fac
Chloride	107		4.97		mg/Kg		_		08/29/22 10:44	1

Client Sample ID: SW-43 (6-8')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 6 - 8

Method: 8021B - Volatile Organic Compounds (GC)			
	Mothod: 9021D	Volatile Organie	Compounde (CC)

Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:16	08/31/22 23:40	1
Toluene	< 0.00199	U	0.00199		mg/Kg		08/30/22 12:16	08/31/22 23:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:16	08/31/22 23:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/30/22 12:16	08/31/22 23:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:16	08/31/22 23:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/30/22 12:16	08/31/22 23:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				08/30/22 12:16	08/31/22 23:40	1
1,4-Difluorobenzene (Surr)	108		70 - 130				08/30/22 12:16	08/31/22 23:40	1

Method: Total E	BTEX - Total	BTEX Ca	Iculation
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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00398	U	0.00398		ma/Ka	 		09/01/22 12:44	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			08/23/22 11:36	1

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Lab Sample ID: 890-2784-33

Lab Sample ID: 890-2784-34

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2784-1
Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-43 (6-8')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 6 - 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/22/22 16:33	08/24/22 20:36	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		08/22/22 16:33	08/24/22 20:36	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 16:33	08/24/22 20:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				08/22/22 16:33	08/24/22 20:36	1
o-Terphenyl	100		70 - 130				08/22/22 16:33	08/24/22 20:36	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			5.04		mg/Kg			08/29/22 10:52	

Client Sample ID: SW-44 (4.5-8')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 4.5 - 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:16	09/01/22 00:00	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:16	09/01/22 00:00	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:16	09/01/22 00:00	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/30/22 12:16	09/01/22 00:00	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:16	09/01/22 00:00	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/30/22 12:16	09/01/22 00:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				08/30/22 12:16	09/01/22 00:00	1
1,4-Difluorobenzene (Surr)	97		70 - 130				08/30/22 12:16	09/01/22 00:00	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			09/01/22 12:44	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/23/22 11:36	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 20:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 20:58	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 20:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				08/22/22 16:33	08/24/22 20:58	1
o-Terphenyl	113		70 - 130				08/22/22 16:33	08/24/22 20:58	1

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Lab Sample ID: 890-2784-34

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-44 (4.5-8')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5 - 8

Method: 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	955	F2 F1	5.04		mg/Kg			08/29/22 14:49	1	

Client Sample ID: SW-45 (0-8')

Date Collected: 08/18/22 00:00

Lab Sample ID: 890-2784-35

Matrix: Solid

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 0 - 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:16	09/01/22 00:20	
Toluene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:16	09/01/22 00:20	
Ethylbenzene	0.0108		0.00201		mg/Kg		08/30/22 12:16	09/01/22 00:20	
m-Xylene & p-Xylene	0.0209		0.00402		mg/Kg		08/30/22 12:16	09/01/22 00:20	
o-Xylene	0.0251		0.00201		mg/Kg		08/30/22 12:16	09/01/22 00:20	,
Xylenes, Total	0.0460		0.00402		mg/Kg		08/30/22 12:16	09/01/22 00:20	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	90		70 - 130				08/30/22 12:16	09/01/22 00:20	
1,4-Difluorobenzene (Surr)	97		70 - 130				08/30/22 12:16	09/01/22 00:20	1
Method: Total BTEX - Total BTEX									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	0.0568		0.00402		mg/Kg			09/01/22 12:44	1
Method: 8015 NM - Diesel Range	•	O) (GC) Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Analyte		Qualifier	50.0	WIDL	mg/Kg		Prepareu	08/23/22 11:36	DII Fac
Total TPH	1110		50.0		mg/kg			06/23/22 11.30	'
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	79.7		50.0		mg/Kg		08/22/22 16:33	08/24/22 19:32	1
Diesel Range Organics (Over C10-C28)	1030		50.0		mg/Kg		08/22/22 16:33	08/24/22 19:32	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 16:33	08/24/22 19:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				08/22/22 16:33	08/24/22 19:32	1
o-Terphenyl	99		70 - 130				08/22/22 16:33	08/24/22 19:32	1
Method: 300.0 - Anions, Ion Chro									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	679		5.02		mg/Kg			08/29/22 15:12	

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Lab Sample ID: 890-2784-36

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-46 (0-5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 0 - 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	09/01/22 00:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	09/01/22 00:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	09/01/22 00:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/30/22 12:16	09/01/22 00:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	09/01/22 00:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/30/22 12:16	09/01/22 00:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				08/30/22 12:16	09/01/22 00:41	1
1,4-Difluorobenzene (Surr)	99		70 - 130				08/30/22 12:16	09/01/22 00:41	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			09/01/22 12:44	1
Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/23/22 11:36	1
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 21:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 21:19	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 21:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				08/22/22 16:33	08/24/22 21:19	1
o-Terphenyl	113		70 - 130				08/22/22 16:33	08/24/22 21:19	1
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SW-47 (0-5')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 0 - 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	09/01/22 01:01	
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	09/01/22 01:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	09/01/22 01:01	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/30/22 12:16	09/01/22 01:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	09/01/22 01:01	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/30/22 12:16	09/01/22 01:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				08/30/22 12:16	09/01/22 01:01	

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Lab Sample ID: 890-2784-37

Lab Sample ID: 890-2784-37

Lab Sample ID: 890-2784-38

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-47 (0-5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compounds	(GC)	(Continued)
Michiga. 002 1B - Volatile Organic Compounds	1001	(Odininaca)

Surrogate	%Recovery Qualifie	er Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	92	70 - 130	08/30/22 12:16	09/01/22 01:01	1

Mathod:	Total RTFY	- Total BTEX	Calculation
mictilou.	TOTAL DIEN	- IUIUI DI LA	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			09/01/22 12:44	1

Method: 8015 NM - Diesel	Dange Organice		
i welliou, ou la min - Diesei	Range Organics	ונטאטו	901

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			08/23/22 11:36	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/22/22 16:33	08/24/22 21:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/22/22 16:33	08/24/22 21:41	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 16:33	08/24/22 21:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	08/22/22 16:33	08/24/22 21:41	1
o-Terphenyl	112		70 - 130	08/22/22 16:33	08/24/22 21:41	1

Method: 300.0 - An	ions, ion	Chromatograph	y - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	558		4.98		mg/Kg		_	08/29/22 15:28	1

Client Sample ID: SW-48 (6-8')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 6 - 8

Method: 8021B - Volatile Organic Compounds (GC)			
	Mothod: 9021D	Volatile Organie	Compounde (CC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:16	09/01/22 01:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:16	09/01/22 01:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:16	09/01/22 01:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/30/22 12:16	09/01/22 01:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:16	09/01/22 01:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/30/22 12:16	09/01/22 01:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				08/30/22 12:16	09/01/22 01:21	1
1,4-Difluorobenzene (Surr)	97		70 ₋ 130				08/30/22 12:16	09/01/22 01:21	1

Method: Total E	BTEX - Total	BTEX Ca	Iculation
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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/01/22 12:44	1

	Method: 8015 NM - Diesel	Range Organics (DRO) (GC)
ı	Michiga. 00 to Min - Diese	i italige Organics (Dito	, (00)

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	117	50.0	mg/Kg			08/23/22 11:36	1

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Lab Sample ID: 890-2784-38

Lab Sample ID: 890-2784-39

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-48 (6-8')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 6 - 8

Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/22/22 16:33	08/24/22 19:53	1
Diesel Range Organics (Over C10-C28)	117		50.0		mg/Kg		08/22/22 16:33	08/24/22 19:53	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 16:33	08/24/22 19:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				08/22/22 16:33	08/24/22 19:53	
o-Terphenyl	98		70 - 130				08/22/22 16:33	08/24/22 19:53	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.5		4.99		mg/Kg			08/29/22 15:36	1

Client Sample ID: SW-49 (4.5-6')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 4.5 - 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:16	09/01/22 01:42	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:16	09/01/22 01:42	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:16	09/01/22 01:42	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		08/30/22 12:16	09/01/22 01:42	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:16	09/01/22 01:42	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		08/30/22 12:16	09/01/22 01:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				08/30/22 12:16	09/01/22 01:42	1
1,4-Difluorobenzene (Surr)	104		70 - 130				08/30/22 12:16	09/01/22 01:42	1
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			09/01/22 12:44	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
•	•	, , ,	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/23/22 11:36	Dil Fac
Analyte	Result 264	Qualifier		MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result 264 ge Organics (D	Qualifier		MDL	mg/Kg	D	Prepared Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result 264 ge Organics (D	Qualifier RO) (GC) Qualifier	50.0		mg/Kg		<u> </u>	08/23/22 11:36	1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result 264 ge Organics (D	Qualifier RO) (GC) Qualifier	50.0		mg/Kg		Prepared	08/23/22 11:36 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 264 ge Organics (D Result <50.0	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0		mg/Kg Unit mg/Kg		Prepared 08/22/22 16:33	08/23/22 11:36 Analyzed 08/24/22 19:10	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 264 ge Organics (D Result <50.0	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 16:33	08/23/22 11:36 Analyzed 08/24/22 19:10 08/24/22 19:10	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 264	Qualifier RO) (GC) Qualifier U	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 16:33 08/22/22 16:33	08/23/22 11:36 Analyzed 08/24/22 19:10 08/24/22 19:10 08/24/22 19:10	1 Dil Fac

Lab Sample ID: 890-2784-39

Client: Tetra Tech, Inc.

Job ID: 890-2784-1
Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-49 (4.5-6')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5 - 6

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	975		25.0		mg/Kg			08/29/22 15:59	5

Client Sample ID: SW-53 (0-8')

Date Collected: 08/18/22 00:00

Matrix: Solid

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 0 - 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:16	09/01/22 02:02	
Toluene	< 0.00199	U	0.00199		mg/Kg		08/30/22 12:16	09/01/22 02:02	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		08/30/22 12:16	09/01/22 02:02	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/30/22 12:16	09/01/22 02:02	
o-Xylene	< 0.00199	U	0.00199		mg/Kg		08/30/22 12:16	09/01/22 02:02	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/30/22 12:16	09/01/22 02:02	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	95		70 - 130				08/30/22 12:16	09/01/22 02:02	-
1,4-Difluorobenzene (Surr)	100		70 - 130				08/30/22 12:16	09/01/22 02:02	1
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/01/22 12:44	,
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH			49.9	WIDL	mg/Kg		Frepareu	08/23/22 11:36	Dii Fat
iotai irii	~43. 3	O	49.9		mg/rkg			00/23/22 11.30	
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 22:02	
5 5									
(GRO)-C6-C10 Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 22:02	,
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)					mg/Kg mg/Kg		08/22/22 16:33 08/22/22 16:33	08/24/22 22:02 08/24/22 22:02	
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9	U	49.9						,
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.9 <49.9	U	49.9 49.9				08/22/22 16:33	08/24/22 22:02	,
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.9 <49.9 %Recovery	U	49.9 49.9 <i>Limits</i>				08/22/22 16:33 Prepared	08/24/22 22:02 Analyzed	Dil Fa
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	<49.9 <49.9 **Recovery 109 106	U Qualifier	49.9 49.9 <u>Limits</u> 70 - 130				08/22/22 16:33 Prepared 08/22/22 16:33	08/24/22 22:02 Analyzed 08/24/22 22:02	Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<49.9 <49.9 **Recovery 109 106 Domatography -	U Qualifier	49.9 49.9 <u>Limits</u> 70 - 130	MDL	mg/Kg	D.	08/22/22 16:33 Prepared 08/22/22 16:33	08/24/22 22:02 Analyzed 08/24/22 22:02	Dil Fa

Lab Sample ID: 890-2784-41

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-54 (0-4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 0 - 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:29	09/01/22 05:39	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:29	09/01/22 05:39	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:29	09/01/22 05:39	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/30/22 12:29	09/01/22 05:39	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:29	09/01/22 05:39	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/30/22 12:29	09/01/22 05:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				08/30/22 12:29	09/01/22 05:39	1
1,4-Difluorobenzene (Surr)	101		70 - 130				08/30/22 12:29	09/01/22 05:39	1
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			09/01/22 12:44	1
Method: 8015 NM - Diesel Range Analyte Total TPH		Qualifier		MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/23/22 11:36	Dil Fac
Total TPH - -	<50.0	U	50.0		mg/Kg			08/23/22 11:36	1
Method: 8015B NM - Diesel Rang									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/23/22 10:46	08/24/22 23:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/23/22 10:46	08/24/22 23:07	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/23/22 10:46	08/24/22 23:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				08/23/22 10:46	08/24/22 23:07	1
o-Terphenyl	95		70 - 130				08/23/22 10:46	08/24/22 23:07	1
-		Soluble							
Method: 300.0 - Anions, Ion Chro	omatograpny -	Oolubic							
Method: 300.0 - Anions, Ion Chro Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SW-55 (4.5-8')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5 - 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00197	U	0.00197		mg/Kg		08/30/22 12:29	09/01/22 06:00	1
Toluene	<0.00197	U	0.00197		mg/Kg		08/30/22 12:29	09/01/22 06:00	1
Ethylbenzene	<0.00197	U	0.00197		mg/Kg		08/30/22 12:29	09/01/22 06:00	1
m-Xylene & p-Xylene	<0.00394	U	0.00394		mg/Kg		08/30/22 12:29	09/01/22 06:00	1
o-Xylene	< 0.00197	U	0.00197		mg/Kg		08/30/22 12:29	09/01/22 06:00	1
Xylenes, Total	<0.00394	U	0.00394		mg/Kg		08/30/22 12:29	09/01/22 06:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				08/30/22 12:29	09/01/22 06:00	1

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Matrix: Solid

Lab Sample ID: 890-2784-42

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-55 (4.5-8') Lab Sample ID: 890-2784-42

Date Collected: 08/18/22 00:00 Matrix: Solid Date Received: 08/19/22 08:00

Sample Depth: 4.5 - 8

Method: 8021B - Volatile Organic Compounds	(GC) (Continued)
--	------------------

Surrogate	%Recovery C	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100		70 - 130	08/30/22 12:29	09/01/22 06:00	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00394 U	0.00394	ma/Ka			09/01/22 12:44	1

Mothod: 2015 NM	Diccol Pango	Organice	(DPO) (GC)

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	ma/Ka			08/23/22 11:36	1

Method: 8015B	NM - Diesel	Range Ore	anice l	(DRO)	(GC)
Methou. ou isb	IAIN - DIESEI	Range Org	janics i	(DRU)	(GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/23/22 10:46	08/24/22 23:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/23/22 10:46	08/24/22 23:29	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/23/22 10:46	08/24/22 23:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prep	ared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130	08/23/2	2 10:46	08/24/22 23:29	1
o-Terphenyl	76		70 - 130	08/23/2	2 10:46	08/24/22 23:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte		ualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1730	25.2	mg/Kg			08/29/22 16:23	5

Client Sample ID: SW-56 (0-4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 0 - 4.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:29	09/01/22 06:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:29	09/01/22 06:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:29	09/01/22 06:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/30/22 12:29	09/01/22 06:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:29	09/01/22 06:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/30/22 12:29	09/01/22 06:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				08/30/22 12:29	09/01/22 06:20	1
1,4-Difluorobenzene (Surr)	102		70 - 130				08/30/22 12:29	09/01/22 06:20	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399		ma/Ka				09/01/22 12:44	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			08/23/22 11:36	1

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Lab Sample ID: 890-2784-43

Matrix: Solid

Lab Sample ID: 890-2784-43

Lab Sample ID: 890-2784-44

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-56 (0-4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 0 - 4.5

Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/23/22 10:46	08/24/22 23:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/23/22 10:46	08/24/22 23:51	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/23/22 10:46	08/24/22 23:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				08/23/22 10:46	08/24/22 23:51	1
o-Terphenyl	88		70 - 130				08/23/22 10:46	08/24/22 23:51	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1120		5.03		mg/Kg			08/29/22 16:31	1

Client Sample ID: SW-57 (6-8')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 6 - 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:29	09/01/22 06:40	1
Toluene	< 0.00199	U	0.00199		mg/Kg		08/30/22 12:29	09/01/22 06:40	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		08/30/22 12:29	09/01/22 06:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/30/22 12:29	09/01/22 06:40	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		08/30/22 12:29	09/01/22 06:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/30/22 12:29	09/01/22 06:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				08/30/22 12:29	09/01/22 06:40	1
1,4-Difluorobenzene (Surr)	104		70 - 130				08/30/22 12:29	09/01/22 06:40	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/01/22 12:44	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/23/22 11:36	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/23/22 10:46	08/25/22 00:12	1
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		08/23/22 10:46	08/25/22 00:12	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/23/22 10:46	08/25/22 00:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				08/23/22 10:46	08/25/22 00:12	1
o-Terphenyl	100		70 - 130				08/23/22 10:46	08/25/22 00:12	1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2784-1

SDG: Lea County NM

Client Sample ID: SW-57 (6-8')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 6 - 8

Lab Sample ID: 890-2784-44

Matrix: Solid

Method: 300.0 - Anions, Ion Chromat	ography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.5		5.00		mg/Kg			08/29/22 16:39	1

Lab Sample ID: 890-2784-45 Client Sample ID: SW-58 (6-8') **Matrix: Solid**

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 6 - 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.0100	U	0.0100		mg/Kg		08/30/22 12:29	09/01/22 09:42	
Toluene	<0.0100	U	0.0100		mg/Kg		08/30/22 12:29	09/01/22 09:42	
Ethylbenzene	<0.0100	U	0.0100		mg/Kg		08/30/22 12:29	09/01/22 09:42	
m-Xylene & p-Xylene	<0.0200	U	0.0200		mg/Kg		08/30/22 12:29	09/01/22 09:42	
o-Xylene	<0.0100	U	0.0100		mg/Kg		08/30/22 12:29	09/01/22 09:42	
Xylenes, Total	<0.0200	U	0.0200		mg/Kg		08/30/22 12:29	09/01/22 09:42	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
4-Bromofluorobenzene (Surr)	45	S1-	70 - 130				08/30/22 12:29	09/01/22 09:42	
1,4-Difluorobenzene (Surr)	127		70 - 130				08/30/22 12:29	09/01/22 09:42	
Method: Total BTEX - Total BT	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
								00/01/00 10 11	
Total BTEX	<0.0200	U	0.0200		mg/Kg			09/01/22 12:44	
			0.0200		mg/Kg			09/01/22 12:44	
Total BTEX Method: 8015 NM - Diesel Ranç Analyte	ge Organics (DR		0.0200 RL	MDL	mg/Kg Unit	D	Prepared	09/01/22 12:44 Analyzed	Dil F
Method: 8015 NM - Diesel Ran	ge Organics (DR	O) (GC)		MDL		<u>D</u>	Prepared		Dil F
Method: 8015 NM - Diesel Rang Analyte	ge Organics (DR Result 8970	O) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil F
Method: 8015 NM - Diesel Rang Analyte Total TPH	ge Organics (DR Result 8970 nge Organics (D	O) (GC) Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed	
Method: 8015 NM - Diesel Rang Analyte Total TPH Method: 8015B NM - Diesel Ra	ge Organics (DR Result 8970 nge Organics (D	Qualifier RO) (GC) Qualifier	RL		Unit mg/Kg			Analyzed 08/23/22 11:36	
Method: 8015 NM - Diesel Rang Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (DR Result 8970 nge Organics (D Result	Qualifier RO) (GC) Qualifier	RL 		Unit mg/Kg		Prepared	Analyzed 08/23/22 11:36 Analyzed	
Method: 8015 NM - Diesel Rang Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics	ge Organics (DR Result 8970 nge Organics (D Result <49.8	Qualifier RO) (GC) Qualifier			Unit mg/Kg Unit mg/Kg		Prepared 08/23/22 10:46	Analyzed 08/23/22 11:36 Analyzed 08/25/22 00:33	
Method: 8015 NM - Diesel Rang Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	ge Organics (DR Result 8970 nge Organics (D Result <49.8 7350 1620 %Recovery	Qualifier RO) (GC) Qualifier U	RL 49.8 RL 49.8 49.8		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 08/23/22 10:46 08/23/22 10:46	Analyzed 08/23/22 11:36 Analyzed 08/25/22 00:33 08/25/22 00:33	Dil F
Method: 8015 NM - Diesel Rang Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (DR Result 8970 nge Organics (D Result <49.8 7350 1620	Qualifier RO) (GC) Qualifier U	RL 49.8 RL 49.8 49.8 49.8		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 08/23/22 10:46 08/23/22 10:46 08/23/22 10:46	Analyzed 08/23/22 11:36 Analyzed 08/25/22 00:33 08/25/22 00:33	Dil F

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Analyzed

08/29/22 17:03

RL

4.99

MDL Unit

mg/Kg

Prepared

Result Qualifier

202

Dil Fac

Analyte

Chloride

Lab Sample ID: 890-2784-46

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-59 (6-8')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 6 - 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:29	09/01/22 07:01	1
Toluene	< 0.00201	U	0.00201		mg/Kg		08/30/22 12:29	09/01/22 07:01	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:29	09/01/22 07:01	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/30/22 12:29	09/01/22 07:01	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:29	09/01/22 07:01	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/30/22 12:29	09/01/22 07:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				08/30/22 12:29	09/01/22 07:01	1
1,4-Difluorobenzene (Surr)	99		70 - 130				08/30/22 12:29	09/01/22 07:01	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/01/22 12:44	1
Mathada 0045 NM - Diagal Danas	Owner in a (DD	0) (00)							
Method: 8015 NM - Diesel Range Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result		112	IVIDE	Oilit		i icpaica		
Total TPH	<50.0	11	50.0		ma/Ka				
Total TPH	<50.0	U	50.0		mg/Kg			08/23/22 11:36	
Total TPH Method: 8015B NM - Diesel Rang			50.0		mg/Kg				
- -	ge Organics (D		50.0 RL	MDL		D	Prepared		1
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC) Qualifier		MDL		D	Prepared 08/23/22 10:46	08/23/22 11:36	1 Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	<u>.</u>	08/23/22 11:36 Analyzed	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D Result <50.0	RO) (GC) Qualifier U	RL	MDL	Unit mg/Kg	<u>D</u>	08/23/22 10:46	08/23/22 11:36 Analyzed 08/25/22 00:54	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <50.0	RO) (GC) Qualifier U U	RL 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	08/23/22 10:46 08/23/22 10:46	08/23/22 11:36 Analyzed 08/25/22 00:54 08/25/22 00:54	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D Result <50.0 <50.0	RO) (GC) Qualifier U U	RL 50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	08/23/22 10:46 08/23/22 10:46 08/23/22 10:46	08/23/22 11:36 Analyzed 08/25/22 00:54 08/25/22 00:54	Dil Face 1 1 1 Dil Face
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	ge Organics (D Result <50.0 <50.0 <50.0	RO) (GC) Qualifier U U		MDL	Unit mg/Kg mg/Kg	<u>D</u>	08/23/22 10:46 08/23/22 10:46 08/23/22 10:46 Prepared	08/23/22 11:36 Analyzed 08/25/22 00:54 08/25/22 00:54 08/25/22 00:54 Analyzed	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	ge Organics (D Result <50.0 <50.0 <50.0 <70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0 70.0	RO) (GC) Qualifier U U Qualifier	RL 50.0 50.0 50.0 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	08/23/22 10:46 08/23/22 10:46 08/23/22 10:46 Prepared 08/23/22 10:46	08/23/22 11:36 Analyzed 08/25/22 00:54 08/25/22 00:54 Analyzed 08/25/22 00:54	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	ge Organics (D Result <50.0 <50.0 <50.0 %Recovery 114 115 omatography -	RO) (GC) Qualifier U U Qualifier	RL 50.0 50.0 50.0 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	08/23/22 10:46 08/23/22 10:46 08/23/22 10:46 Prepared 08/23/22 10:46	08/23/22 11:36 Analyzed 08/25/22 00:54 08/25/22 00:54 Analyzed 08/25/22 00:54	Dil Fac

Client Sample ID: SW-60 (0-13')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 0 - 13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:29	09/01/22 07:21	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:29	09/01/22 07:21	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:29	09/01/22 07:21	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/30/22 12:29	09/01/22 07:21	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:29	09/01/22 07:21	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/30/22 12:29	09/01/22 07:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				08/30/22 12:29	09/01/22 07:21	

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Matrix: Solid

Lab Sample ID: 890-2784-47

5

4

7

9

46

13

Lab Sample ID: 890-2784-47

Lab Sample ID: 890-2784-48

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-60 (0-13')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 0 - 13

Method: 8021B - Volatile Organic Con	noounds (GC)	(Continued)
motifical collision of gains con	ipodiido (OO)	(Continuou,

Surrogate	%Recovery Qualifi	er Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99	70 - 130	08/30/22 12:29	09/01/22 07:21	1

Mathod:	Total RTFY	- Total BTEX	Calculation
mictilou.	TOTAL DIEN	- IUIUI DI LA	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/01/22 12:44	1

ш				
ш	Method: 8015 NI	A - Diocol Pane	no Organice	(DPO) (CC)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/23/22 11:36	1

Method: 8015B	NM Discol	Dange Ore	aaniee (DD()) (CC)
MICHIOU. OU IOD	INIVI - DIESEI	Rallue Oli	ualiics lunc	JI (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/23/22 10:46	08/25/22 01:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/23/22 10:46	08/25/22 01:16	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/23/22 10:46	08/25/22 01:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	08	8/23/22 10:46	08/25/22 01:16	1
o-Terphenyl	91		70 - 130	08	8/23/22 10:46	08/25/22 01:16	1

Method: 300).0 - Anions,	Ion Chroma	tography - 🤄	Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2390	24.9	mg/Kg		_	08/29/22 17:32	5

Client Sample ID: SW-61 (8-13')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 8 - 13

Mothod: 9021B Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:29	09/01/22 07:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:29	09/01/22 07:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:29	09/01/22 07:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/30/22 12:29	09/01/22 07:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:29	09/01/22 07:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/30/22 12:29	09/01/22 07:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				08/30/22 12:29	09/01/22 07:42	1
1,4-Difluorobenzene (Surr)	100		70 - 130				08/30/22 12:29	09/01/22 07:42	1

Method: Total E	BTEX - Total	BTEX Ca	Iculation
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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/01/22 12:44	1

Method: 8015 NM - Diesel Range Organics (DRO) (G	C)
moundar out of the Broods stange or games (Bite	, , –	_,

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	76.1	50.0	mg/Kg			08/23/22 11:36	1

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Client: Tetra Tech, Inc.

Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-61 (8-13')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 8 - 13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		08/22/22 16:29	08/23/22 20:43	1
Diesel Range Organics (Over C10-C28)	76.1		50.0		mg/Kg		08/22/22 16:29	08/23/22 20:43	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 16:29	08/23/22 20:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				08/22/22 16:29	08/23/22 20:43	1
o-Terphenyl	88		70 - 130				08/22/22 16:29	08/23/22 20:43	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
	D14	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	114		O		opai oa	raidiyeda	D uo

Client Sample ID: SW-62 (8-13')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 8 - 13

REMOVED FROM ANALYSIS TABLE

%Recovery Qualifier

97

92

Lab Sample ID: 890-2784-49

Lab Sample ID: 890-2784-48

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:29	09/01/22 08:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:29	09/01/22 08:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:29	09/01/22 08:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/30/22 12:29	09/01/22 08:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:29	09/01/22 08:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/30/22 12:29	09/01/22 08:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				08/30/22 12:29	09/01/22 08:02	1
1,4-Difluorobenzene (Surr)	103		70 - 130				08/30/22 12:29	09/01/22 08:02	1
Method: Total BTEX - Total BTEX Analyte Total BTEX		Qualifier U	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 09/01/22 12:44	Dil Fa
Analyte	Result <0.00400	U				<u>D</u>	Prepared Prepared		
Analyte Total BTEX Method: 8015 NM - Diesel Range	Result <0.00400	U (GC)	0.00400		mg/Kg		· ·	09/01/22 12:44	
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte	Result <0.00400	O) (GC) Qualifier	0.00400		mg/Kg		· ·	09/01/22 12:44 Analyzed	
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH	e Organics (DRO Result 1570 ge Organics (Dlog Result 1570 ge Organics (Dlog Result 1570	O) (GC) Qualifier	0.00400	MDL	mg/Kg		· ·	09/01/22 12:44 Analyzed	Dil Fa
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range	e Organics (DRO Result 1570 ge Organics (Dlog Result 1570 ge Organics (Dlog Result 1570	O) (GC) Qualifier RO) (GC) Qualifier	0.00400 RL 49.9	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	09/01/22 12:44 Analyzed 08/23/22 11:36	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	Result < 0.00400 e Organics (DRO Result 1570 ge Organics (DI Result Re	O) (GC) Qualifier RO) (GC) Qualifier	0.00400 RL 49.9	MDL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	09/01/22 12:44 Analyzed 08/23/22 11:36 Analyzed	Dil Fac

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Analyzed

08/23/22 22:50

08/23/22 22:50

Prepared

08/22/22 16:29

08/22/22 16:29

Limits

70 - 130

70 - 130

Dil Fac

Surrogate

o-Terphenyl

1-Chlorooctane

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-62 (8-13')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

REMOVED FROM ANALYSIS TABLE

Result Qualifier

-0.00400 II

<49.9 U

Lab Sample ID: 890-2784-49

Matrix: Solid

Sample Depth: 8 - 13

	Method: 300.0 - Anions, Ion Chrom	atography -	Soluble							
1	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
L	Chloride	825		5.01		mg/Kg			08/29/22 17:46	1

Client Sample ID: SW-63 (8-13') Lab Sample ID: 890-2784-50 **Matrix: Solid**

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Method: Total BTEX - Total BTEX Calculation

Sample Depth: 8 - 13

Analyte

Total DTEV

(GRO)-C6-C10

Diesel Range Organics (Over

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:29	09/01/22 08:22	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:29	09/01/22 08:22	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:29	09/01/22 08:22	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/30/22 12:29	09/01/22 08:22	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:29	09/01/22 08:22	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/30/22 12:29	09/01/22 08:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				08/30/22 12:29	09/01/22 08:22	1
1,4-Difluorobenzene (Surr)	101		70 ₋ 130				08/30/22 12:29	09/01/22 08:22	1

Iotal BTEX	<0.00403	U	0.00403		mg/Kg			09/01/22 12:44	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/23/22 11:36	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U *1	49.9		mg/Kg		08/22/22 16:29	08/23/22 21:04	1

0.00400

MDL Unit

mg/Kg

Prepared

08/22/22 16:29

Analyzed

00/04/00 40:44

08/23/22 21:04

C10-C28) Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	08/22/22 16:29	08/23/22 21:04	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130		08/22/22 16:29	08/23/22 21:04	1
o-Terphenyl	89		70 - 130		08/22/22 16:29	08/23/22 21:04	1

49.9

Method: 300.0 - Anions, Ion Chromato	graphy -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	561		5.00		mg/Kg			08/29/22 17:54	1

Lab Sample ID: 890-2784-51

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-64 (8-10')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 8 - 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:29	09/01/22 11:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:29	09/01/22 11:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:29	09/01/22 11:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/30/22 12:29	09/01/22 11:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:29	09/01/22 11:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/30/22 12:29	09/01/22 11:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				08/30/22 12:29	09/01/22 11:32	1
1,4-Difluorobenzene (Surr)	108		70 - 130				08/30/22 12:29	09/01/22 11:32	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/01/22 12:44	1
Method: 8015 NM - Diesel Range			DI.	MDI	11-24	_	Dd	Anaharad	D!! F
_		O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH		Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/23/22 11:36	Dil Fac
Analyte	Result <50.0	Qualifier U		MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result <50.0	Qualifier U		MDL	mg/Kg	<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: 8015B NM - Diesel Ran	Result <50.0	Qualifier U RO) (GC) Qualifier	50.0		mg/Kg	=	<u> </u>	08/23/22 11:36	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 Ge Organics (Dige Result	Qualifier U RO) (GC) Qualifier U *1	50.0		mg/Kg	=	Prepared	08/23/22 11:36 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0 ge Organics (Dige Result <50.0)	Qualifier U RO) (GC) Qualifier U *1	50.0 RL 50.0		mg/Kg Unit mg/Kg	=	Prepared 08/22/22 16:29	08/23/22 11:36 Analyzed 08/23/22 23:11	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U RO) (GC) Qualifier U *1 U	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 08/22/22 16:29 08/22/22 16:29	08/23/22 11:36 Analyzed 08/23/22 23:11 08/23/22 23:11	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U RO) (GC) Qualifier U *1 U	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 08/22/22 16:29 08/22/22 16:29	08/23/22 11:36 Analyzed 08/23/22 23:11 08/23/22 23:11	Dil Face 1 1 1 Dil Face
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U RO) (GC) Qualifier U *1 U	50.0 RL 50.0 50.0 50.0 Limits		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 08/22/22 16:29 08/22/22 16:29 08/22/22 16:29 Prepared	08/23/22 11:36 Analyzed 08/23/22 23:11 08/23/22 23:11 08/23/22 23:11 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0	Qualifier U RO) (GC) Qualifier U*1 U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 08/22/22 16:29 08/22/22 16:29 08/22/22 16:29 Prepared 08/22/22 16:29	08/23/22 11:36 Analyzed 08/23/22 23:11 08/23/22 23:11 Analyzed 08/23/22 23:11	Dil Fac 1 1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U RO) (GC) Qualifier U*1 U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg	=	Prepared 08/22/22 16:29 08/22/22 16:29 08/22/22 16:29 Prepared 08/22/22 16:29	08/23/22 11:36 Analyzed 08/23/22 23:11 08/23/22 23:11 Analyzed 08/23/22 23:11	Dil Fac 1 1 1 Dil Fac 1

Client Sample ID: SW-65 (8-10')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 8 - 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:29	09/01/22 11:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:29	09/01/22 11:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:29	09/01/22 11:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/30/22 12:29	09/01/22 11:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:29	09/01/22 11:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/30/22 12:29	09/01/22 11:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				08/30/22 12:29	09/01/22 11:52	

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Lab Sample ID: 890-2784-52

Released to Imaging: 9/1/2023 2:55:43 PM

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Matrix: Solid

Lab Sample ID: 890-2784-52

Lab Sample ID: 890-2784-53

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-65 (8-10')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 8 - 10

Method: 8021B - Volatile Organic Con	noounds (GC)	(Continued)
motifical collision of gains con	ipodiido (OO)	(Continuou,

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	105	70 - 130	08/30/22 12:29	09/01/22 11:52	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg		_	09/01/22 12:44	1

Method: 8015 NM -	Diesal Range	Organice	(DRO) (GC)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			08/23/22 11:36	1

Method: 8015B	NM Discol	Dange Ore	aaniee (DD()) (CC)
MICHIOU. OU IOD	INIVI - DIESEI	Rallue Oli	ualiics lunc	JI (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U *1	49.9		mg/Kg		08/22/22 16:29	08/23/22 23:32	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		08/22/22 16:29	08/23/22 23:32	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 16:29	08/23/22 23:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

1-Chlorooctane	96	70 - 130
o-Terphenyl	86	70 - 130

Method: 300.0 - Anions, Ion Chromatograph	ıv - Soluble				
o-Terphenyl	86	70 - 130	08/22/22 16:29	08/23/22 23:32	1
1-Chlorooctane	96	70 - 130	08/22/22 16:29	08/23/22 23:32	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	765	4.95	mg/Kg			08/29/22 18:08	1

Client Sample ID: SW-66 (8-10')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 8 - 10

Method: 8021B -	Volatile Organ	ic Compounds	s (GC)
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moniour coziz rolumo organio		()							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:29	09/01/22 12:13	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:29	09/01/22 12:13	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:29	09/01/22 12:13	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/30/22 12:29	09/01/22 12:13	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:29	09/01/22 12:13	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/30/22 12:29	09/01/22 12:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				08/30/22 12:29	09/01/22 12:13	1
1,4-Difluorobenzene (Surr)	107		70 - 130				08/30/22 12:29	09/01/22 12:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			09/01/22 12:44	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			08/23/22 11:36	1

Lab Sample ID: 890-2784-53

Lab Sample ID: 890-2784-54

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-66 (8-10')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 8 - 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U *1	50.0		mg/Kg		08/22/22 16:29	08/23/22 23:53	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		08/22/22 16:29	08/23/22 23:53	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 16:29	08/23/22 23:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				08/22/22 16:29	08/23/22 23:53	1
o-Terphenyl	96		70 - 130				08/22/22 16:29	08/23/22 23:53	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
motilodi occio Amono, ion om									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SW-67 (8-10')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 8 - 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:29	09/01/22 12:33	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:29	09/01/22 12:33	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:29	09/01/22 12:33	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/30/22 12:29	09/01/22 12:33	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:29	09/01/22 12:33	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/30/22 12:29	09/01/22 12:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				08/30/22 12:29	09/01/22 12:33	1
1,4-Difluorobenzene (Surr)	105		70 - 130				08/30/22 12:29	09/01/22 12:33	1
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			09/01/22 12:44	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/23/22 11:36	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		08/22/22 16:29	08/24/22 00:14	1
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		08/22/22 16:29	08/24/22 00:14	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 16:29	08/24/22 00:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				08/22/22 16:29	08/24/22 00:14	1
o-Terphenyl	89		70 - 130				08/22/22 16:29	08/24/22 00:14	1

Matrix: Solid

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-2784-1

SDG: Lea County NM

Lab Sample ID: 890-2784-54

Client Sample ID: SW-67 (8-10')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 8 - 10

Method: 300.0 - Anions, Ion Chromatography - Soluble							
Analyte	Result Qua	alifier RL	MDL Ur	nit D	Prepared	Analyzed	Dil Fac
Chloride	215	5.04	m _i	ng/Kg		08/29/22 09:12	1

Client Sample ID: SW-68 (0-6') Lab Sample ID: 890-2784-55

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 0 - 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:29	09/01/22 12:53	
Toluene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:29	09/01/22 12:53	
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:29	09/01/22 12:53	
m-Xylene & p-Xylene	< 0.00397	U	0.00397		mg/Kg		08/30/22 12:29	09/01/22 12:53	
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:29	09/01/22 12:53	
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		08/30/22 12:29	09/01/22 12:53	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	92		70 - 130				08/30/22 12:29	09/01/22 12:53	
1,4-Difluorobenzene (Surr)	108		70 - 130				08/30/22 12:29	09/01/22 12:53	
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00397	U	0.00397		mg/Kg			09/01/22 12:44	•
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9		mg/Kg			08/23/22 11:36	•
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		08/22/22 16:29	08/24/22 00:36	•
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/22/22 16:29	08/24/22 00:36	,
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 16:29	08/24/22 00:36	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	112		70 - 130				08/22/22 16:29	08/24/22 00:36	
o-Terphenyl	102		70 - 130				08/22/22 16:29	08/24/22 00:36	
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	2210		24.9		mg/Kg			08/29/22 09:40	į

Lab Sample ID: 890-2784-56

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-69 (0-6')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 0 - 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:29	09/01/22 13:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:29	09/01/22 13:14	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		08/30/22 12:29	09/01/22 13:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/30/22 12:29	09/01/22 13:14	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		08/30/22 12:29	09/01/22 13:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/30/22 12:29	09/01/22 13:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				08/30/22 12:29	09/01/22 13:14	1
1,4-Difluorobenzene (Surr)	101		70 - 130				08/30/22 12:29	09/01/22 13:14	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			09/01/22 12:44	1
Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1890		50.0		mg/Kg			08/23/22 11:36	1
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		08/22/22 16:29	08/23/22 22:07	1
Diesel Range Organics (Over C10-C28)	1890		50.0		mg/Kg		08/22/22 16:29	08/23/22 22:07	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 16:29	08/23/22 22:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				08/22/22 16:29	08/23/22 22:07	1
o-Terphenyl	97		70 - 130				08/22/22 16:29	08/23/22 22:07	1
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
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Client Sample ID: SW-70 (0-4.5')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00
Sample Depth: 0 - 4.5
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Method: 8021B - Volatile Orga	nic Compounds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0400	U	0.0400		mg/Kg		08/30/22 12:29	09/01/22 14:35	20
Toluene	<0.0400	U	0.0400		mg/Kg		08/30/22 12:29	09/01/22 14:35	20
Ethylbenzene	<0.0400	U	0.0400		mg/Kg		08/30/22 12:29	09/01/22 14:35	20
m-Xylene & p-Xylene	<0.0800	U	0.0800		mg/Kg		08/30/22 12:29	09/01/22 14:35	20
o-Xylene	<0.0400	U	0.0400		mg/Kg		08/30/22 12:29	09/01/22 14:35	20
Xylenes, Total	<0.0800	U	0.0800		mg/Kg		08/30/22 12:29	09/01/22 14:35	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				08/30/22 12:29	09/01/22 14:35	20

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Matrix: Solid

Lab Sample ID: 890-2784-57

Released to Imaging: 9/1/2023 2:55:43 PM

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Lab Sample ID: 890-2784-57

Lab Sample ID: 890-2784-58

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-70 (0-4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 0 - 4.5

Method: 8021B - Volatile Organic Compounds	(GC) (Continued)
Method. 002 1D - Volatile Organic Compounds	(OO) (Oolillillided)

Surrogate	%Recovery Qualifi	ier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	92	70 - 130	08/30/22 12:29	09/01/22 14:35	20

ı	Mothodi	Total DTEV	- Total BTEX	Coloulation
ı	wethou.	TOTAL DIEV	- IUIAI DIEA	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0800	U	0.0800		mg/Kg		_	09/01/22 12:44	1

Method: 8015 NM - Diesel Range	Organics (DRO) (GC)						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1770	49.8	mg/Kg			08/23/22 11:36	1

Method: 8015B NM - Diesel R	ange Organics (DRO) (GC)			
Analyte	Result Qualifier	RL	MDL Unit	

Allalyte	Result	Qualifier	KL	MDL OII	IL	ט	Frepareu	Allalyzeu	DII Fac
Gasoline Range Organics	<49.8	U *1	49.8	mg	/Kg	_	08/22/22 16:29	08/23/22 22:29	1
(GRO)-C6-C10									
Diesel Range Organics (Over	1770		49.8	mg	/Kg		08/22/22 16:29	08/23/22 22:29	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg	/Kg		08/22/22 16:29	08/23/22 22:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	08/22/22 16:29	08/23/22 22:29	1
o-Terphenyl	89		70 - 130	08/22/22 16:29	08/23/22 22:29	1

Method: 300.0 - Anions,	on Chromatography - Soluble
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Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	352	4.97		mg/Kg			08/29/22 09:58	1

Client Sample ID: SW-71 (0-4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 0 - 4.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:29	09/01/22 13:34	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:29	09/01/22 13:34	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:29	09/01/22 13:34	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/30/22 12:29	09/01/22 13:34	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:29	09/01/22 13:34	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/30/22 12:29	09/01/22 13:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				08/30/22 12:29	09/01/22 13:34	1
1,4-Difluorobenzene (Surr)	110		70 - 130				08/30/22 12:29	09/01/22 13:34	1

Mothod:	Total	DTEV	Total	DTEV	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00403	U	0.00403		mg/Kg			09/01/22 12:44	1

Method: 8015 NM - Diesel Range O	rganics (DRO) (GC)
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Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			08/23/22 11:36	1

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Lab Sample ID: 890-2784-58

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-71 (0-4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 0 - 4.5									
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U *1	49.9		mg/Kg		08/22/22 16:29	08/24/22 00:57	1
(GRO)-C6-C10									

Diesel Range Organics (Over <49.9 U 49.9 mg/Kg 08/22/22 16:29 08/24/22 00:57 C10-C28) Oll Range Organics (Over C28-C36) <49.9 U 49.9 08/22/22 16:29 08/24/22 00:57 mg/Kg Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed

1-Chlorooctane	110	70 - 130	08/22/22 16:29	08/24/22 00:57	1
o-Terphenyl	98	70 - 130	08/22/22 16:29	08/24/22 00:57	1
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Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1460		24.9		mg/Kg			08/29/22 10:07	5

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

Matrix: Solid				Prep Type: Total/NA
_				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2784-1	BH-120 (8')	120	96	
890-2784-1 MS	BH-120 (8')	136 S1+	103	
890-2784-1 MSD	BH-120 (8')	136 S1+	106	
890-2784-2	BH-124 (8')	143 S1+	85	
890-2784-3	BH-132 (8')	115	91	
890-2784-4	BH-159 (8')	107	80	
890-2784-5	BH-162 (8')	121	89	
890-2784-6	BH-164 (8')	114	100	
890-2784-7	BH-166 (8')	115	90	
890-2784-8	BH-167 (8')	106	90	
890-2784-9	BH-168 (5')	120	94	
890-2784-10	BH-169 (5')	128	84	
890-2784-11	BH-170 (5')	130	87	
890-2784-12	BH-171 (5')	124	84	
890-2784-13	BH-172 (6')	124	80	
890-2784-14	BH-173 (6')	123	90	
890-2784-15	BH-174 (6')	130	81	
890-2784-16	BH-175 (4.5')	113	92	
890-2784-17	BH-176 (4.5')	116	91	
890-2784-18	BH-177 (4.5')	117	93	
890-2784-19	BH-178 (4.5')	117	88	
890-2784-20	BH-179 (4.5')	119	90	
890-2784-21	BH-180 (4.5')	94	106	
890-2784-21 MS	BH-180 (4.5')	97	105	
890-2784-21 MSD	BH-180 (4.5')	98	103	
890-2784-22	BH-181 (4.5')	90	105	
890-2784-23	BH-182 (4.5')	93	108	
890-2784-24	BH-183 (4.5')	91	108	
890-2784-25	BH-184 (4.5')	93	109	
890-2784-26	BH-185 (4.5')	95	110	
890-2784-27	BH-186 (4.5')	91	108	
890-2784-28	BH-187 (4.5')	93	107	
890-2784-29	BH-188 (4.5')	96	106	
890-2784-30	BH-189 (4.5')	88	109	
890-2784-31	SW-38 (4.5-13')	100	87	
890-2784-32	SW-42 (4.5-8')	89	106	
890-2784-33	SW-43 (6-8')	95	108	
890-2784-34	SW-44 (4.5-8')	95	97	
890-2784-35	SW-45 (0-8')	90	97	
890-2784-36	SW-46 (0-5')	103	99	
890-2784-37	SW-47 (0-5')	93	92	
890-2784-38	SW-48 (6-8')	99	97	
890-2784-39	SW-49 (4.5-6')	99	104	
890-2784-40	SW-53 (0-8')	95	100	
890-2784-41	SW-54 (0-4.5')	94	101	
890-2784-41 MS	SW-54 (0-4.5')	100	103	
890-2784-41 MSD	SW-54 (0-4.5')	94	98	
890-2784-42	SW-55 (4.5-8')	92	100	
890-2784-43	SW-56 (0-4.5')	91	102	
	- /	-	-	

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance
		BFB1	DFBZ1	
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-2784-44	SW-57 (6-8')	88	104	
390-2784-45	SW-58 (6-8')	45 S1-	127	
390-2784-46	SW-59 (6-8')	91	99	
90-2784-47	SW-60 (0-13')	94	99	
390-2784-48	SW-61 (8-13')	94	100	
90-2784-49	SW-62 (8-13')	89	103	
90-2784-50	SW-63 (8-13')	102	101	
90-2784-51	SW-64 (8-10')	89	108	
90-2784-52	SW-65 (8-10')	94	105	
90-2784-53	SW-66 (8-10')	93	107	
90-2784-54	SW-67 (8-10')	91	105	
90-2784-55	SW-68 (0-6')	92	108	
90-2784-56	SW-69 (0-6')	96	101	
90-2784-57	SW-70 (0-4.5')	94	92	
90-2784-58	SW-71 (0-4.5')	93	110	
CS 880-33358/1-A	Lab Control Sample	115	107	
CS 880-33361/1-A	Lab Control Sample	92	103	
CS 880-33362/1-A	Lab Control Sample	93	95	
CSD 880-33358/2-A	Lab Control Sample Dup	111	107	
CSD 880-33361/2-A	Lab Control Sample Dup	82	105	
CSD 880-33362/2-A	Lab Control Sample Dup	90	98	
MB 880-33358/5-A	Method Blank	103	93	
MB 880-33361/5-A	Method Blank	79	118	
IB 880-33362/5-A	Method Blank	82	107	
1B 880-33411/8	Method Blank	96	94	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-18428-A-1-C MS	Matrix Spike	96	85	
880-18428-A-1-D MSD	Matrix Spike Duplicate	84	75	
890-2784-1	BH-120 (8')	64 S1-	76	
890-2784-1 MS	BH-120 (8')	51 S1-	55 S1-	
890-2784-1 MSD	BH-120 (8')	52 S1-	56 S1-	
890-2784-2	BH-124 (8')	58 S1-	71	
890-2784-3	BH-132 (8')	67 S1-	80	
890-2784-4	BH-159 (8')	69 S1-	82	
890-2784-5	BH-162 (8')	68 S1-	82	
890-2784-6	BH-164 (8')	62 S1-	76	
890-2784-7	BH-166 (8')	59 S1-	71	
890-2784-8	BH-167 (8')	61 S1-	70	
890-2784-9	BH-168 (5')	60 S1-	71	
890-2784-10	BH-169 (5')	56 S1-	69 S1-	
890-2784-11	BH-170 (5')	57 S1-	66 S1-	

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

Matrix: Solid				Prep Type: Total/N/
				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2784-12	BH-171 (5')	70	84	
890-2784-13	BH-172 (6')	70	84	
890-2784-14	BH-173 (6')	63 S1-	77	
890-2784-15	BH-174 (6')	64 S1-	76	
890-2784-16	BH-175 (4.5')	59 S1-	71	
890-2784-17	BH-176 (4.5')	58 S1-	69 S1-	
890-2784-18	BH-177 (4.5')	59 S1-	73	
890-2784-19	BH-178 (4.5')	60 S1-	72	
890-2784-20	BH-179 (4.5')	60 S1-	75	
890-2784-21	BH-180 (4.5')	117	114	
890-2784-21 MS	BH-180 (4.5')	109	89	
890-2784-21 MSD	BH-180 (4.5')	109	88	
890-2784-22	BH-181 (4.5')	114	110	
890-2784-23	BH-182 (4.5')	97	97	
890-2784-24	BH-183 (4.5')	93	92	
890-2784-25	BH-184 (4.5')	111	109	
890-2784-26	BH-185 (4.5')	116	113	
890-2784-27	BH-186 (4.5')	92	91	
890-2784-28	BH-187 (4.5')	97	97	
890-2784-29	BH-188 (4.5')	98	97	
890-2784-30	BH-189 (4.5')	95	93	
890-2784-31	SW-38 (4.5-13')	118	116	
890-2784-32	SW-42 (4.5-8')	119	113	
890-2784-33	SW-43 (6-8')	99	100	
890-2784-34	SW-44 (4.5-8')	115	113	
890-2784-35	SW-45 (0-8')	105	99	
890-2784-36	SW-46 (0-5')	115	113	
890-2784-37	SW-47 (0-5')	116	112	
890-2784-38	SW-48 (6-8')	99	98	
890-2784-39	SW-49 (4.5-6')	101	98	
890-2784-40	SW-53 (0-8')	109 91	106	
890-2784-41	SW-54 (0-4.5')		95	
890-2784-42	SW-55 (4.5-8')	74	76	
890-2784-43	SW-56 (0-4.5')	82	88	
890-2784-44	SW-57 (6-8')	93	100	
890-2784-45	SW-58 (6-8')	93	96	
890-2784-46	SW-59 (6-8')	114	115	
890-2784-47	SW-60 (0-13')	87	91	
890-2784-48	SW-61 (8-13')	97		
890-2784-49	SW-62 (8-13')	97	92	
890-2784-50	SW-63 (8-13')	97	89	
890-2784-51	SW-64 (8-10')	104	99	
890-2784-52	SW-65 (8-10')	96	86	
890-2784-53	SW-66 (8-10')	106	96	
890-2784-54	SW-67 (8-10')	99	89	
890-2784-55	SW-68 (0-6')	112	102	
890-2784-56	SW-69 (0-6')	104	97	
890-2784-57	SW-70 (0-4.5')	95	89	
890-2784-58	SW-71 (0-4.5')	110	98	
890-2786-A-2-C MS	Matrix Spike	96	74	

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2786-A-2-D MSD	Matrix Spike Duplicate	89	74	
LCS 880-32669/2-A	Lab Control Sample	73	84	
_CS 880-32713/2-A	Lab Control Sample	516 S1+	484 S1+	
LCS 880-32714/2-A	Lab Control Sample	521 S1+	535 S1+	
LCS 880-32774/2-A	Lab Control Sample	575 S1+	577 S1+	
LCSD 880-32669/3-A	Lab Control Sample Dup	74	86	
LCSD 880-32713/3-A	Lab Control Sample Dup	548 S1+	524 S1+	
LCSD 880-32714/3-A	Lab Control Sample Dup	568 S1+	565 S1+	
LCSD 880-32774/3-A	Lab Control Sample Dup	527 S1+	538 S1+	
MB 880-32669/1-A	Method Blank	64 S1-	79	
MB 880-32713/1-A	Method Blank	98	94	
MB 880-32714/1-A	Method Blank	96	96	
MB 880-32774/1-A	Method Blank	94	94	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-33358/5-A

Matrix: Solid

Analysis Batch: 33411

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33358

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	08/31/22 23:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	08/31/22 23:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	08/31/22 23:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/30/22 12:01	08/31/22 23:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	08/31/22 23:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/30/22 12:01	08/31/22 23:38	1

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	_	08/30/22 12:01	08/31/22 23:38	1
1,4-Difluorobenzene (Surr)	93		70 - 130		08/30/22 12:01	08/31/22 23:38	1

Lab Sample ID: LCS 880-33358/1-A

Matrix: Solid

Analysis Batch: 33411

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33358

Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09998 mg/Kg 100 70 - 130 Toluene 0.100 0.09209 mg/Kg 92 70 - 130 0.100 0.09252 93 Ethylbenzene mg/Kg 70 - 130 m-Xylene & p-Xylene 0.200 0.1909 95 70 - 130 mg/Kg 0.100 0.1112 70 - 130 o-Xylene mg/Kg 111

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	115	70 - 130
1,4-Difluorobenzene (Surr)	107	70 - 130

Lab Sample ID: LCSD 880-33358/2-A

Matrix: Solid

Analysis Batch: 33411

Client Sample ID: Lab Control Sample Du	Client Sam	ple ID: L	ab Contro	Sample Du
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Prep Type: Total/NA

Prep Batch: 33358

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09401		mg/Kg		94	70 - 130	6	35	
Toluene	0.100	0.08558		mg/Kg		86	70 - 130	7	35	
Ethylbenzene	0.100	0.08674		mg/Kg		87	70 - 130	6	35	
m-Xylene & p-Xylene	0.200	0.1790		mg/Kg		90	70 - 130	6	35	
o-Xylene	0.100	0.1032		mg/Kg		103	70 - 130	8	35	

LCSD LCSD

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1.4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-2784-1 MS

Matrix: Solid

Analysis Batch: 33411

Client Sample ID: BH-120 (8')

Prep Type: Total/NA

Prep Batch: 33358

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U	0.101	0.09002		mg/Kg	_	89	70 - 130	
Toluene	<0.00198	U	0.101	0.08715		mg/Kg		87	70 - 130	

Client: Tetra Tech, Inc. Job ID: 890-2784-1 SDG: Lea County NM Project/Site: Kaiser SWD

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2784-1 MS

Matrix: Solid

Analysis Batch: 33411

Client Sample ID: BH-120 (8')

Prep Type: Total/NA

Prep Batch: 33358

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Ethylbenzene	<0.00198	U	0.101	0.09489		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	<0.00397	U	0.201	0.1923		mg/Kg		96	70 - 130
o-Xylene	<0.00198	U	0.101	0.1183		mg/Kg		118	70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Client Sample ID: BH-120 (8')

Prep Type: Total/NA

Prep Batch: 33358

Lab Sample ID: 890-2784-1 MSD Matrix: Solid

Analysis Batch: 33411

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00198	U	0.100	0.08882		mg/Kg		89	70 - 130	1	35
Toluene	<0.00198	U	0.100	0.08598		mg/Kg		86	70 - 130	1	35
Ethylbenzene	<0.00198	U	0.100	0.09412		mg/Kg		94	70 - 130	1	35
m-Xylene & p-Xylene	<0.00397	U	0.200	0.1897		mg/Kg		95	70 - 130	1	35
o-Xylene	<0.00198	U	0.100	0.1170		mg/Kg		117	70 - 130	1	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: MB 880-33361/5-A

Matrix: Solid

Analysis Batch: 33465

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 33361

l		MB	MB							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 17:36	1
	Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 17:36	1
	Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 17:36	1
	m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/30/22 12:16	08/31/22 17:36	1
	o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 17:36	1
	Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/30/22 12:16	08/31/22 17:36	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	08/30/22 12:16	08/31/22 17:36	1
1,4-Difluorobenzene (Surr)	118		70 - 130	08/30/22 12:16	08/31/22 17:36	1

Lab Sample ID: LCS 880-33361/1-A

Matrix: Solid

Analysis Batch: 33465

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33361

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1051		mg/Kg		105	70 - 130	
Toluene	0.100	0.1026		mg/Kg		103	70 - 130	
Ethylbenzene	0.100	0.09908		mg/Kg		99	70 - 130	
m-Xylene & p-Xylene	0.200	0.1821		mg/Kg		91	70 - 130	

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2784-1 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-33361/1-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 33465** Prep Batch: 33361

	Spike	LCS	LCS			%Rec	
Analyte	Added	Result	Qualifier Ur	nit D	%Rec	Limits	
o-Xylene	0.100	0.09507	m	g/Kg	95	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-33361/2-A Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Solid Analysis Batch: 33465

Prep Batch: 33361 Spike LCSD LCSD Result Qualifier Analyte Added Limit Unit %Rec Limits RPD Benzene 0.100 0.1086 mg/Kg 109 70 - 130 3 35

- 1								
	Toluene	0.100	0.09563	mg/Kg	96	70 - 130	7	35
	Ethylbenzene	0.100	0.08726	mg/Kg	87	70 - 130	13	35
	m-Xylene & p-Xylene	0.200	0.1471	mg/Kg	74	70 - 130	21	35
	o-Xylene	0.100	0.07842	mg/Kg	78	70 - 130	19	35
	LCSD LCSD							

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	82		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-2784-21 MS **Client Sample ID: BH-180 (4.5')** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 33465

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00199	U	0.101	0.1081		mg/Kg		107	70 - 130
Toluene	< 0.00199	U	0.101	0.1066		mg/Kg		106	70 - 130
Ethylbenzene	<0.00199	U	0.101	0.1017		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1863		mg/Kg		92	70 - 130
o-Xylene	< 0.00199	U	0.101	0.09769		mg/Kg		97	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-2784-21 MSD **Client Sample ID: BH-180 (4.5')**

Matrix: Solid

Analysis Batch: 33465									Prep	Batch:	33361
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.100	0.1083		mg/Kg		108	70 - 130	0	35
Toluene	<0.00199	U	0.100	0.1076		mg/Kg		107	70 - 130	1	35
Ethylbenzene	<0.00199	U	0.100	0.1023		mg/Kg		102	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1866		mg/Kg		93	70 - 130	0	35
o-Xylene	< 0.00199	U	0.100	0.09828		mg/Kg		98	70 - 130	1	35

Eurofins Carlsbad

Prep Type: Total/NA

Prep Batch: 33361

Job ID: 890-2784-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2784-21 MSD

Matrix: Solid

Analysis Batch: 33465

Client Sample ID: BH-180 (4.5')

Prep Type: Total/NA Prep Batch: 33361

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: MB 880-33362/5-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Total/NA Analysis Batch: 33465 Prep Batch: 33362

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:29	09/01/22 05:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:29	09/01/22 05:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:29	09/01/22 05:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/30/22 12:29	09/01/22 05:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:29	09/01/22 05:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/30/22 12:29	09/01/22 05:11	1

MB MB Qualifier Limits Prepared Analyzed Dil Fac Surrogate %Recovery 70 - 130 08/30/22 12:29 09/01/22 05:11 4-Bromofluorobenzene (Surr) 82 1,4-Difluorobenzene (Surr) 107 70 - 130 08/30/22 12:29 09/01/22 05:11

Lab Sample ID: LCS 880-33362/1-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 33465

LCS LCS Spike %Rec Added Result Qualifier Analyte Unit %Rec Limits Benzene 0.100 0.08954 90 70 - 130 mg/Kg Toluene 0.09540 70 - 130 0.100 mg/Kg 95 Ethylbenzene 0.100 0.09384 mg/Kg 94 70 - 130 0.200 0.1720 70 - 130 m-Xylene & p-Xylene mg/Kg 86 o-Xylene 0.100 0.09358 mg/Kg 94 70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1.4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-33362/2-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid**

Analysis Batch: 33465

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08443		mg/Kg		84	70 - 130	6	35
Toluene	0.100	0.08898		mg/Kg		89	70 - 130	7	35
Ethylbenzene	0.100	0.08828		mg/Kg		88	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1627		mg/Kg		81	70 - 130	6	35
o-Xylene	0.100	0.08712		mg/Kg		87	70 - 130	7	35

LCSD LCSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 70 - 130 90

Prep Type: Total/NA Prep Batch: 33362

Prep Batch: 33362

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2784-1 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-33362/2-A

Matrix: Solid

Analysis Batch: 33465

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33362

LCSD LCSD

%Recovery Qualifier Surrogate Limits 1,4-Difluorobenzene (Surr) 98 70 - 130

Lab Sample ID: 890-2784-41 MS Client Sample ID: SW-54 (0-4.5')

Matrix: Solid

Analysis Batch: 33465

Prep Type: Total/NA

Prep Batch: 33362

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.101	0.1030	-	mg/Kg		102	70 - 130	
Toluene	<0.00202	U	0.101	0.09919		mg/Kg		99	70 - 130	
Ethylbenzene	<0.00202	U	0.101	0.09015		mg/Kg		90	70 - 130	
m-Xylene & p-Xylene	<0.00403	U	0.201	0.1615		mg/Kg		80	70 - 130	
o-Xylene	<0.00202	U	0.101	0.08797		mg/Kg		87	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	100	70 - 130
1,4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: 890-2784-41 MSD Client Sample ID: SW-54 (0-4.5')

Matrix: Solid

Analysis Batch: 33465

Prep Type: Total/NA

Prep Batch: 33362

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U	0.0998	0.09574		mg/Kg		96	70 - 130	7	35
Toluene	<0.00202	U	0.0998	0.09569		mg/Kg		96	70 - 130	4	35
Ethylbenzene	<0.00202	U	0.0998	0.08913		mg/Kg		89	70 - 130	1	35
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1611		mg/Kg		81	70 - 130	0	35
o-Xylene	<0.00202	U	0.0998	0.08747		mg/Kg		88	70 - 130	1	35

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	94	70 - 130
1.4-Difluorobenzene (Surr)	98	70 - 130

Lab Sample ID: MB 880-33411/8 Client Sample ID: Method Blank Matrix: Solid

Analysis Batch: 33411

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Prep Type: Total/NA

ı		MR	MB							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	<0.00200	U	0.00200		mg/Kg			08/31/22 13:02	1
	Toluene	<0.00200	U	0.00200		mg/Kg			08/31/22 13:02	1
	Ethylbenzene	<0.00200	U	0.00200		mg/Kg			08/31/22 13:02	1
	m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			08/31/22 13:02	1
	o-Xylene	<0.00200	U	0.00200		mg/Kg			08/31/22 13:02	1
	Xylenes, Total	< 0.00400	U	0.00400		mg/Kg			08/31/22 13:02	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130		08/31/22 13:02	1
1,4-Difluorobenzene (Surr)	94		70 - 130		08/31/22 13:02	1

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-32669/1-A

Matrix: Solid

Analysis Batch: 32586

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32669

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/22/22 21:31	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/22/22 21:31	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/22/22 21:31	1
	440	440							

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	64	S1-	70 - 130	08/22/22 13:43	08/22/22 21:31	1
o-Terphenyl	79		70 - 130	08/22/22 13:43	08/22/22 21:31	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32669

LCS LCS Spike Added Result Qualifier Analyte Unit D %Rec Limits 1000 719.7 72 Gasoline Range Organics mg/Kg 70 - 130 (GRO)-C6-C10 1000 Diesel Range Organics (Over 892.1 mg/Kg 89 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	73		70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: LCSD 880-32669/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Lab Sample ID: LCS 880-32669/2-A

Matrix: Solid

Analysis Batch: 32586

Analysis Batch: 32586

Prep Type: Total/NA

Prep Batch: 32669

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	724.7		mg/Kg		72	70 - 130	1	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	912.3		mg/Kg		91	70 - 130	2	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	74	70 - 130
o-Terphenyl	86	70 - 130

Lab Sample ID: 890-2784-1 MS Client Sample ID: BH-120 (8')

Matrix: Solid

Prep Type: Total/NA Analysis Batch: 32586 Prep Batch: 32669

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U F1	999	522.3	F1	mg/Kg		50	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U F1	999	558.6	F1	mg/Kg		56	70 - 130	
C10-C28)										

Prep Type: Total/NA

Job ID: 890-2784-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

MS MS

Lab Sample ID: 890-2784-1 MS Client Sample ID: BH-120 (8')

Matrix: Solid

Analysis Batch: 32586

Prep Type: Total/NA Prep Batch: 32669

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 51 S1-70 - 130 o-Terphenyl 55 S1-70 - 130

Lab Sample ID: 890-2784-1 MSD Client Sample ID: BH-120 (8')

Matrix: Solid

Analysis Batch: 32586

Prep Batch: 32669 Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit <49.9 UF1 998 552.9 F1 53 70 - 1306 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 998 58 <49.9 U F1 578.2 F1 mg/Kg 70 - 1303 20

C10-C28)

MSD MSD Surrogate %Recovery Qualifier Limits 52 S1-70 - 130 1-Chlorooctane o-Terphenyl 56 S1-70 - 130

Lab Sample ID: MB 880-32713/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 32730

Prep Type: Total/NA Prep Batch: 32713 MB MB

Analyte MDL Unit Result Qualifier RL D Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 mg/Kg 08/22/22 16:29 08/23/22 15:45 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 08/22/22 16:29 08/23/22 15:45 C10-C28) 50.0 08/23/22 15:45 OII Range Organics (Over C28-C36) <50.0 U 08/22/22 16:29 mg/Kg

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 98 70 - 130 08/22/22 16:29 08/23/22 15:45 94 70 - 130 08/22/22 16:29 o-Terphenyl 08/23/22 15:45

Lab Sample ID: LCS 880-32713/2-A Client Sample ID: Lab Control Sample

Matrix: Solid Prep Type: Total/NA Analysis Batch: 32730 Prep Batch: 32713

Rec Limits	14
	its
82 70 - 13	130
93 70 - 13	130
	82 70 -

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	516	S1+	70 - 130
o-Terphenyl	484	S1+	70 - 130

Spike

Added

1000

1000

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-32713/3-A

Matrix: Solid

Analysis Batch: 32730

Gasoline Range Organics

Client Sample ID: Lab Control Sample Dup

70 - 130

70 - 130

Prep Type: Total/NA Prep Batch: 32713

9

LCSD LCSD RPD Result Qualifier RPD Limit Unit %Rec Limits 1054 *1 mg/Kg 105 70 - 130 25 20

102

Diesel Range Organics (Over C10-C28)

(GRO)-C6-C10

Analyte

LCSD LCSD

<49.9 U

Surrogate	%Recovery	Qualifier	Limits		
1-Chlorooctane	548	S1+	70 - 130		
o-Terphenyl	524	S1+	70 - 130		

Lab Sample ID: 890-2786-A-2-C MS Client Sample ID: Matrix Spike Prep Type: Total/NA

1016

934.1

mg/Kg

mg/Kg

Matrix: Solid

Diesel Range Organics (Over

Analysis Batch: 32730									Prep	Batch: 32713
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U *1	999	770.6		mg/Kg		76	70 - 130	
(GRO)-C6-C10										

999

C10-C28)

MS MS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 96 70 - 130 o-Terphenyl 74 70 - 130

Lab Sample ID: 890-2786-A-2-D MSD

Analysis Batch: 32730

Matrix: Solid	Prep Type: Total/NA
Analysis Potoh, 22720	Bron Botch, 22742

Prep Batch: 32713

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	998	789.4		mg/Kg		78	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	953.1		mg/Kg		93	70 - 130	2	20

	MSD	WSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	74		70 - 130

MR MR

Lab Sample ID: MB 880-32714/1-A

Matrix: Solid

Analysis Batch: 32806

(Client	Sample	ID:	Method	Blank	

Prep Type: Total/NA Prep Batch: 32714

L		IVID	IVID							
l	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
l	Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/22/22 16:33	08/24/22 11:55	1
l	(GRO)-C6-C10									
l	Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		08/22/22 16:33	08/24/22 11:55	1
l	C10-C28)									
l	OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 16:33	08/24/22 11:55	1

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Client Sample ID: Matrix Spike Duplicate

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-32714/1-A

Matrix: Solid

Analysis Batch: 32806

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32714

MB MB

	Surrogate	%Recovery	Qualifier	Limits	Prepare	d Analyzed	I Dil Fac
	1-Chlorooctane	96		70 - 130	08/22/22 1	6:33 08/24/22 11	:55 1
l	o-Terphenyl	96		70 - 130	08/22/22 1	6:33 08/24/22 11	:55 1

Lab Sample ID: LCS 880-32714/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 32806

Prep Type: Total/NA

Prep Batch: 32714

-	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1006		mg/Kg		101	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1017		mg/Kg		102	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	521	S1+	70 - 130
o-Terphenyl	535	S1+	70 - 130

Lab Sample ID: LCSD 880-32714/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 32806

Prep Type: Total/NA

Prep Batch: 32714

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	1165		mg/Kg		116	70 - 130	15	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	1078		mg/Kg		108	70 - 130	6	20	
C10-C28)										

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	568	S1+	70 - 130
o-Terphenyl	565	S1+	70 - 130

Lab Sample ID: 890-2784-21 MS Client Sample ID: BH-180 (4.5')

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 32806 Prep Batch: 32714

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<49.9	U	999	1194		mg/Kg		117	70 - 130		_
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U	999	1048		mg/Kg		105	70 - 130		
C10 C20)											

C10-C28)

MS MS

Surrogate	%Recovery Qualifie	r Limits
1-Chlorooctane	109	70 - 130
o-Terphenyl	89	70 - 130

Client Sample ID: BH-180 (4.5')

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 32774

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-2784-21 MSD

Matrix: Solid

Analysis Batch: 32806									Prep	Batch:	32714
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U	998	1033		mg/Kg		101	70 - 130	14	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U	998	1050		mg/Kg		105	70 - 130	0	20

C10-C28)

MSD MSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 109 70 - 130 o-Terphenyl 88

Lab Sample ID: MB 880-32774/1-A

Matrix: Solid

Analysis Batch: 32808

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/23/22 10:46	08/24/22 16:17	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		08/23/22 10:46	08/24/22 16:17	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/23/22 10:46	08/24/22 16:17	1

MB MB

Surrogate	%Recovery Qualifie	er Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94	70 - 130	08/23/22 10:46	08/24/22 16:17	1
o-Terphenyl	94	70 - 130	08/23/22 10:46	08/24/22 16:17	1

Lab Sample ID: LCS 880-32774/2-A

Matrix: Solid

Analysis Batch: 32808							Prep	Batch: 32774
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1065		mg/Kg		106	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1056		mg/Kg		106	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	575	S1+	70 - 130
o-Terphenyl	577	S1+	70 - 130

Lab Sample ID: LCSD 880-32774/3-A

Matrix: Solid

Analysis Batch: 32808							Batch:	32774	
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1046		mg/Kg		105	70 - 130	2	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	982.3		mg/Kg		98	70 - 130	7	20
C10-C28)									

QC Sample Results

Job ID: 890-2784-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-32774/3-A

Matrix: Solid

Analysis Batch: 32808

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 32774

LCSD LCSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 527 S1+ 70 - 130 o-Terphenyl 538 S1+ 70 - 130

Lab Sample ID: 880-18428-A-1-C MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 32808** Prep Batch: 32774

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits <49.9 U 999 1043 101 70 - 130Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 999 972.4 <49.9 U mg/Kg 97 70 - 130C10-C28)

MS MS %Recovery Surrogate Qualifier Limits 70 - 130 1-Chlorooctane 96 85 70 - 130 o-Terphenyl

Lab Sample ID: 880-18428-A-1-D MSD

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 32808** Prep Batch: 32774 Sample Sample MSD MSD RPD Spike

Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits RPD Limit D Gasoline Range Organics <49.9 U 998 953.0 mg/Kg 92 70 - 130 9 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 998 885.0 mg/Kg 89 70 - 130 20

C10-C28)

MSD MSD %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 84 70 - 130 o-Terphenyl 75

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-32582/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 33167

MB MB Dil Fac Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 08/29/22 02:22

Lab Sample ID: LCS 880-32582/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 33167

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	248.2		mg/Kg		99	90 - 110	

Job ID: 890-2784-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-32582/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 33167

Spike LCSD LCSD RPD %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 249.1 mg/Kg 100 90 - 110 20

Lab Sample ID: 890-2784-4 MS Client Sample ID: BH-159 (8') **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 33167

Sample Sample Spike MS MS %Rec Qualifier Analyte Result Added Result Qualifier Unit D %Rec Limits Chloride 1010 1250 2342 mg/Kg 107 90 - 110

Lab Sample ID: 890-2784-4 MSD Client Sample ID: BH-159 (8') **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 33167

MSD MSD RPD Spike %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 1250 2338 1010 mg/Kg 106 90 - 110

Lab Sample ID: MB 880-32583/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 33168

мв мв

Result Qualifier MDL Unit Analyte RL Prepared Analyzed Dil Fac 5.00 Chloride <5.00 08/29/22 06:57 mg/Kg

Lab Sample ID: LCS 880-32583/2-A Client Sample ID: Lab Control Sample **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 33168

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 249.3 mg/Kg 100 90 - 110

Lab Sample ID: LCSD 880-32583/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 33168

Spike LCSD LCSD %Rec RPD Added RPD Analyte Result Qualifier Unit D %Rec Limits Limit Chloride 250 249.3 mg/Kg 100 90 - 110

Lab Sample ID: 890-2784-14 MS Client Sample ID: BH-173 (6')

Matrix: Solid

Analysis Batch: 33168

MS MS %Rec Sample Sample Spike Result Qualifier Added Result Qualifier Limits Analyte Unit D %Rec Chloride 329 248 557.9 mg/Kg 92 90 - 110

Lab Sample ID: 890-2784-14 MSD Client Sample ID: BH-173 (6')

Matrix: Solid

Analysis Batch: 33168

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Spike Sample MSD MSD %Rec Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 329 248 563.7 mg/Kg 95 90 - 110 20

Eurofins Carlsbad

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Job ID: 890-2784-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-2784-24 MS Client Sample ID: BH-183 (4.5') **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 33168

Spike Sample Sample MS MS %Rec Qualifier Analyte Result Added Result Qualifier Unit %Rec Limits Chloride 1050 249 1247 4 mg/Kg 78 90 - 110

Lab Sample ID: 890-2784-24 MSD Client Sample ID: BH-183 (4.5') **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 33168

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added RPD Analyte Result Qualifier Unit D %Rec Limits Limit Chloride 1050 249 1247 mg/Kg 90 - 110

Lab Sample ID: MB 880-32584/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 33169

мв мв Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 08/29/22 14:25 mg/Kg

Lab Sample ID: LCS 880-32584/2-A Client Sample ID: Lab Control Sample **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 33169

LCS LCS Spike %Rec Added Analyte Result Qualifier Unit %Rec Limits Chloride 250 251.5 101 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-32584/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 33169

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 252.0 mg/Kg 101 90 - 110

Lab Sample ID: 890-2784-34 MS Client Sample ID: SW-44 (4.5-8') Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 33169

Sample Sample Spike MS MS %Rec Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits Chloride 955 F2 F1 252 1151 F1 mg/Kg 90 - 110

Lab Sample ID: 890-2784-34 MSD Client Sample ID: SW-44 (4.5-8')

Matrix: Solid

Analysis Batch: 33169

MSD MSD %Rec RPD Sample Sample Spike Result Qualifier hahhA Result Qualifier D Limits RPD Limit Analyte Unit %Rec Chloride 955 F2 F1 252 1151 F1 mg/Kg 78 90 - 110 20

Lab Sample ID: 890-2784-44 MS Client Sample ID: SW-57 (6-8')

Matrix: Solid

Analysis Batch: 33169

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 65.5 250 323.5 mg/Kg 103 90 - 110

Eurofins Carlsbad

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: SW-57 (6-8')

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample Dup

Client Sample ID: SW-67 (8-10')

Client Sample ID: SW-67 (8-10')

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-2784-44 MSD

Matrix: Solid

Analysis Batch: 33169

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	65.5		250	322.5		mg/Kg		103	90 - 110	0	20

Lab Sample ID: MB 880-32585/1-A

Matrix: Solid

Analysis Batch: 33170

MB MB

MDL Unit Analyte Result Qualifier RL Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 08/29/22 08:44

Lab Sample ID: LCS 880-32585/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 33170

LCS LCS %Rec Spike Analyte Added Result Qualifier Unit Limits Chloride 250 250.5 mg/Kg 100 90 - 110

Lab Sample ID: LCSD 880-32585/3-A

Matrix: Solid

Analysis Batch: 33170

LCSD LCSD Spike RPD %Rec Analyte Added Result Qualifier %Rec Limit Unit Limits 250 248.0 Chloride 90 - 110 mg/Kg

Lab Sample ID: 890-2784-54 MS

Matrix: Solid

Analysis Batch: 33170

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	215		252	478.7		mg/Kg		105	90 - 110	

Lab Sample ID: 890-2784-54 MSD

Matrix: Solid

Analysis Batch: 33170

Analysis Batom sorre												
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	215		252	486.1		mg/Kg		108	90 - 110	2	20	

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC VOA

Prep Batch: 33358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-2784-1	BH-120 (8')	Total/NA	Solid	5035	
890-2784-2	BH-124 (8')	Total/NA	Solid	5035	
890-2784-3	BH-132 (8')	Total/NA	Solid	5035	
890-2784-4	BH-159 (8')	Total/NA	Solid	5035	
890-2784-5	BH-162 (8')	Total/NA	Solid	5035	
890-2784-6	BH-164 (8')	Total/NA	Solid	5035	
890-2784-7	BH-166 (8')	Total/NA	Solid	5035	
890-2784-8	BH-167 (8')	Total/NA	Solid	5035	
890-2784-9	BH-168 (5')	Total/NA	Solid	5035	
890-2784-10	BH-169 (5')	Total/NA	Solid	5035	
890-2784-11	BH-170 (5')	Total/NA	Solid	5035	
890-2784-12	BH-171 (5')	Total/NA	Solid	5035	
890-2784-13	BH-172 (6')	Total/NA	Solid	5035	
890-2784-14	BH-173 (6')	Total/NA	Solid	5035	
890-2784-15	BH-174 (6')	Total/NA	Solid	5035	
890-2784-16	BH-175 (4.5')	Total/NA	Solid	5035	
890-2784-17	BH-176 (4.5')	Total/NA	Solid	5035	
890-2784-18	BH-177 (4.5')	Total/NA	Solid	5035	
890-2784-19	BH-178 (4.5')	Total/NA	Solid	5035	
890-2784-20	BH-179 (4.5')	Total/NA	Solid	5035	
MB 880-33358/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-33358/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-33358/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2784-1 MS	BH-120 (8')	Total/NA	Solid	5035	
890-2784-1 MSD	BH-120 (8')	Total/NA	Solid	5035	

Prep Batch: 33361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-2784-21	BH-180 (4.5')	Total/NA	Solid	5035	
890-2784-22	BH-181 (4.5')	Total/NA	Solid	5035	
890-2784-23	BH-182 (4.5')	Total/NA	Solid	5035	
890-2784-24	BH-183 (4.5')	Total/NA	Solid	5035	
890-2784-25	BH-184 (4.5')	Total/NA	Solid	5035	
890-2784-26	BH-185 (4.5')	Total/NA	Solid	5035	
390-2784-27	BH-186 (4.5')	Total/NA	Solid	5035	
890-2784-28	BH-187 (4.5')	Total/NA	Solid	5035	
890-2784-29	BH-188 (4.5')	Total/NA	Solid	5035	
390-2784-30	BH-189 (4.5')	Total/NA	Solid	5035	
390-2784-31	SW-38 (4.5-13')	Total/NA	Solid	5035	
890-2784-32	SW-42 (4.5-8')	Total/NA	Solid	5035	
390-2784-33	SW-43 (6-8')	Total/NA	Solid	5035	
390-2784-34	SW-44 (4.5-8')	Total/NA	Solid	5035	
890-2784-35	SW-45 (0-8')	Total/NA	Solid	5035	
890-2784-36	SW-46 (0-5')	Total/NA	Solid	5035	
890-2784-37	SW-47 (0-5')	Total/NA	Solid	5035	
890-2784-38	SW-48 (6-8')	Total/NA	Solid	5035	
890-2784-39	SW-49 (4.5-6')	Total/NA	Solid	5035	
890-2784-40	SW-53 (0-8')	Total/NA	Solid	5035	
MB 880-33361/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-33361/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-33361/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

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Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

GC VOA (Continued)

Prep Batch: 33361 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-21 MS	BH-180 (4.5')	Total/NA	Solid	5035	
890-2784-21 MSD	BH-180 (4.5')	Total/NA	Solid	5035	

Prep Batch: 33362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-2784-41	SW-54 (0-4.5')	Total/NA	Solid	5035	
890-2784-42	SW-55 (4.5-8')	Total/NA	Solid	5035	
890-2784-43	SW-56 (0-4.5')	Total/NA	Solid	5035	
890-2784-44	SW-57 (6-8')	Total/NA	Solid	5035	
890-2784-45	SW-58 (6-8')	Total/NA	Solid	5035	
890-2784-46	SW-59 (6-8')	Total/NA	Solid	5035	
890-2784-47	SW-60 (0-13')	Total/NA	Solid	5035	
890-2784-48	SW-61 (8-13')	Total/NA	Solid	5035	
890-2784-49	SW-62 (8-13')	Total/NA	Solid	5035	
890-2784-50	SW-63 (8-13')	Total/NA	Solid	5035	
890-2784-51	SW-64 (8-10')	Total/NA	Solid	5035	
890-2784-52	SW-65 (8-10')	Total/NA	Solid	5035	
890-2784-53	SW-66 (8-10')	Total/NA	Solid	5035	
890-2784-54	SW-67 (8-10')	Total/NA	Solid	5035	
890-2784-55	SW-68 (0-6')	Total/NA	Solid	5035	
890-2784-56	SW-69 (0-6')	Total/NA	Solid	5035	
890-2784-57	SW-70 (0-4.5')	Total/NA	Solid	5035	
890-2784-58	SW-71 (0-4.5')	Total/NA	Solid	5035	
MB 880-33362/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-33362/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-33362/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2784-41 MS	SW-54 (0-4.5')	Total/NA	Solid	5035	
890-2784-41 MSD	SW-54 (0-4.5')	Total/NA	Solid	5035	

Analysis Batch: 33411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-1	BH-120 (8')	Total/NA	Solid	8021B	33358
890-2784-2	BH-124 (8')	Total/NA	Solid	8021B	33358
890-2784-3	BH-132 (8')	Total/NA	Solid	8021B	33358
890-2784-4	BH-159 (8')	Total/NA	Solid	8021B	33358
890-2784-5	BH-162 (8')	Total/NA	Solid	8021B	33358
890-2784-6	BH-164 (8')	Total/NA	Solid	8021B	33358
890-2784-7	BH-166 (8')	Total/NA	Solid	8021B	33358
890-2784-8	BH-167 (8')	Total/NA	Solid	8021B	33358
890-2784-9	BH-168 (5')	Total/NA	Solid	8021B	33358
890-2784-10	BH-169 (5')	Total/NA	Solid	8021B	33358
890-2784-11	BH-170 (5')	Total/NA	Solid	8021B	33358
890-2784-12	BH-171 (5')	Total/NA	Solid	8021B	33358
890-2784-13	BH-172 (6')	Total/NA	Solid	8021B	33358
890-2784-14	BH-173 (6')	Total/NA	Solid	8021B	33358
890-2784-15	BH-174 (6')	Total/NA	Solid	8021B	33358
890-2784-16	BH-175 (4.5')	Total/NA	Solid	8021B	33358
890-2784-17	BH-176 (4.5')	Total/NA	Solid	8021B	33358
890-2784-18	BH-177 (4.5')	Total/NA	Solid	8021B	33358
890-2784-19	BH-178 (4.5')	Total/NA	Solid	8021B	33358
890-2784-20	BH-179 (4.5')	Total/NA	Solid	8021B	33358

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-2784-1

SDG: Lea County NM

GC VOA (Continued)

Analysis Batch: 33411 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-33358/5-A	Method Blank	Total/NA	Solid	8021B	33358
MB 880-33411/8	Method Blank	Total/NA	Solid	8021B	
LCS 880-33358/1-A	Lab Control Sample	Total/NA	Solid	8021B	33358
LCSD 880-33358/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	33358
890-2784-1 MS	BH-120 (8')	Total/NA	Solid	8021B	33358
890-2784-1 MSD	BH-120 (8')	Total/NA	Solid	8021B	33358

Analysis Batch: 33465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bato
890-2784-21	BH-180 (4.5')	Total/NA	Solid	8021B	3336
390-2784-22	BH-181 (4.5')	Total/NA	Solid	8021B	3336
890-2784-23	BH-182 (4.5')	Total/NA	Solid	8021B	3336
890-2784-24	BH-183 (4.5')	Total/NA	Solid	8021B	3336
890-2784-25	BH-184 (4.5')	Total/NA	Solid	8021B	3336
890-2784-26	BH-185 (4.5')	Total/NA	Solid	8021B	3336
890-2784-27	BH-186 (4.5')	Total/NA	Solid	8021B	3336
890-2784-28	BH-187 (4.5')	Total/NA	Solid	8021B	3336
890-2784-29	BH-188 (4.5')	Total/NA	Solid	8021B	3336
890-2784-30	BH-189 (4.5')	Total/NA	Solid	8021B	3336
890-2784-31	SW-38 (4.5-13')	Total/NA	Solid	8021B	3336
890-2784-32	SW-42 (4.5-8')	Total/NA	Solid	8021B	3336
890-2784-33	SW-43 (6-8')	Total/NA	Solid	8021B	3336
890-2784-34	SW-44 (4.5-8')	Total/NA	Solid	8021B	3336
890-2784-35	SW-45 (0-8')	Total/NA	Solid	8021B	3336
890-2784-36	SW-46 (0-5')	Total/NA	Solid	8021B	3336
890-2784-37	SW-47 (0-5')	Total/NA	Solid	8021B	3336
890-2784-38	SW-48 (6-8')	Total/NA	Solid	8021B	3336
890-2784-39	SW-49 (4.5-6')	Total/NA	Solid	8021B	3336
890-2784-40	SW-53 (0-8')	Total/NA	Solid	8021B	3336
890-2784-41	SW-54 (0-4.5')	Total/NA	Solid	8021B	3336
890-2784-42	SW-55 (4.5-8')	Total/NA	Solid	8021B	3336
890-2784-43	SW-56 (0-4.5')	Total/NA	Solid	8021B	3336
890-2784-44	SW-57 (6-8')	Total/NA	Solid	8021B	3336
890-2784-45	SW-58 (6-8')	Total/NA	Solid	8021B	3336
890-2784-46	SW-59 (6-8')	Total/NA	Solid	8021B	3336
890-2784-47	SW-60 (0-13')	Total/NA	Solid	8021B	3336
890-2784-48	SW-61 (8-13')	Total/NA	Solid	8021B	3336
890-2784-49	SW-62 (8-13')	Total/NA	Solid	8021B	3336
890-2784-50	SW-63 (8-13')	Total/NA	Solid	8021B	3336
890-2784-51	SW-64 (8-10')	Total/NA	Solid	8021B	3336
890-2784-52	SW-65 (8-10')	Total/NA	Solid	8021B	3336
890-2784-53	SW-66 (8-10')	Total/NA	Solid	8021B	3336
890-2784-54	SW-67 (8-10')	Total/NA	Solid	8021B	3336
890-2784-55	SW-68 (0-6')	Total/NA	Solid	8021B	3336
890-2784-56	SW-69 (0-6')	Total/NA	Solid	8021B	3336
890-2784-57	SW-70 (0-4.5')	Total/NA	Solid	8021B	3336
890-2784-58	SW-71 (0-4.5')	Total/NA	Solid	8021B	3336
MB 880-33361/5-A	Method Blank	Total/NA	Solid	8021B	3336
MB 880-33362/5-A	Method Blank	Total/NA	Solid	8021B	3336
LCS 880-33361/1-A	Lab Control Sample	Total/NA	Solid	8021B	3336
LCS 880-33362/1-A	Lab Control Sample	Total/NA	Solid	8021B	3336

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-2784-1

SDG: Lea County NM

GC VOA (Continued)

Analysis Batch: 33465 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-33361/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	33361
LCSD 880-33362/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	33362
890-2784-21 MS	BH-180 (4.5')	Total/NA	Solid	8021B	33361
890-2784-21 MSD	BH-180 (4.5')	Total/NA	Solid	8021B	33361
890-2784-41 MS	SW-54 (0-4.5')	Total/NA	Solid	8021B	33362
890-2784-41 MSD	SW-54 (0-4.5')	Total/NA	Solid	8021B	33362

Analysis Batch: 33551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-2784-1	BH-120 (8')	Total/NA	Solid	Total BTEX	_
890-2784-2	BH-124 (8')	Total/NA	Solid	Total BTEX	
890-2784-3	BH-132 (8')	Total/NA	Solid	Total BTEX	
890-2784-4	BH-159 (8')	Total/NA	Solid	Total BTEX	
890-2784-5	BH-162 (8')	Total/NA	Solid	Total BTEX	
890-2784-6	BH-164 (8')	Total/NA	Solid	Total BTEX	
890-2784-7	BH-166 (8')	Total/NA	Solid	Total BTEX	
890-2784-8	BH-167 (8')	Total/NA	Solid	Total BTEX	
890-2784-9	BH-168 (5')	Total/NA	Solid	Total BTEX	
890-2784-10	BH-169 (5')	Total/NA	Solid	Total BTEX	
890-2784-11	BH-170 (5')	Total/NA	Solid	Total BTEX	
890-2784-12	BH-171 (5')	Total/NA	Solid	Total BTEX	
890-2784-13	BH-172 (6')	Total/NA	Solid	Total BTEX	
890-2784-14	BH-173 (6')	Total/NA	Solid	Total BTEX	
890-2784-15	BH-174 (6')	Total/NA	Solid	Total BTEX	
890-2784-16	BH-175 (4.5')	Total/NA	Solid	Total BTEX	
890-2784-17	BH-176 (4.5')	Total/NA	Solid	Total BTEX	
890-2784-18	BH-177 (4.5')	Total/NA	Solid	Total BTEX	
890-2784-19	BH-178 (4.5')	Total/NA	Solid	Total BTEX	
890-2784-20	BH-179 (4.5')	Total/NA	Solid	Total BTEX	
890-2784-21	BH-180 (4.5')	Total/NA	Solid	Total BTEX	
890-2784-22	BH-181 (4.5')	Total/NA	Solid	Total BTEX	
890-2784-23	BH-182 (4.5')	Total/NA	Solid	Total BTEX	
890-2784-24	BH-183 (4.5')	Total/NA	Solid	Total BTEX	
890-2784-25	BH-184 (4.5')	Total/NA	Solid	Total BTEX	
890-2784-26	BH-185 (4.5')	Total/NA	Solid	Total BTEX	
890-2784-27	BH-186 (4.5')	Total/NA	Solid	Total BTEX	
890-2784-28	BH-187 (4.5')	Total/NA	Solid	Total BTEX	
890-2784-29	BH-188 (4.5')	Total/NA	Solid	Total BTEX	
890-2784-30	BH-189 (4.5')	Total/NA	Solid	Total BTEX	
890-2784-31	SW-38 (4.5-13')	Total/NA	Solid	Total BTEX	
890-2784-32	SW-42 (4.5-8')	Total/NA	Solid	Total BTEX	
890-2784-33	SW-43 (6-8')	Total/NA	Solid	Total BTEX	
890-2784-34	SW-44 (4.5-8')	Total/NA	Solid	Total BTEX	
890-2784-35	SW-45 (0-8')	Total/NA	Solid	Total BTEX	
890-2784-36	SW-46 (0-5')	Total/NA	Solid	Total BTEX	
890-2784-37	SW-47 (0-5')	Total/NA	Solid	Total BTEX	
890-2784-38	SW-48 (6-8')	Total/NA	Solid	Total BTEX	
890-2784-39	SW-49 (4.5-6')	Total/NA	Solid	Total BTEX	
890-2784-40	SW-53 (0-8')	Total/NA	Solid	Total BTEX	
890-2784-41	SW-54 (0-4.5')	Total/NA	Solid	Total BTEX	
890-2784-42	SW-55 (4.5-8')	Total/NA	Solid	Total BTEX	

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Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC VOA (Continued)

Analysis Batch: 33551 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-43	SW-56 (0-4.5')	Total/NA	Solid	Total BTEX	
890-2784-44	SW-57 (6-8')	Total/NA	Solid	Total BTEX	
890-2784-45	SW-58 (6-8')	Total/NA	Solid	Total BTEX	
890-2784-46	SW-59 (6-8')	Total/NA	Solid	Total BTEX	
890-2784-47	SW-60 (0-13')	Total/NA	Solid	Total BTEX	
890-2784-48	SW-61 (8-13')	Total/NA	Solid	Total BTEX	
890-2784-49	SW-62 (8-13')	Total/NA	Solid	Total BTEX	
890-2784-50	SW-63 (8-13')	Total/NA	Solid	Total BTEX	
890-2784-51	SW-64 (8-10')	Total/NA	Solid	Total BTEX	
890-2784-52	SW-65 (8-10')	Total/NA	Solid	Total BTEX	
890-2784-53	SW-66 (8-10')	Total/NA	Solid	Total BTEX	
890-2784-54	SW-67 (8-10')	Total/NA	Solid	Total BTEX	
890-2784-55	SW-68 (0-6')	Total/NA	Solid	Total BTEX	
890-2784-56	SW-69 (0-6')	Total/NA	Solid	Total BTEX	
890-2784-57	SW-70 (0-4.5')	Total/NA	Solid	Total BTEX	
890-2784-58	SW-71 (0-4.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 32586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-1	BH-120 (8')	Total/NA	Solid	8015B NM	32669
890-2784-2	BH-124 (8')	Total/NA	Solid	8015B NM	32669
890-2784-3	BH-132 (8')	Total/NA	Solid	8015B NM	32669
890-2784-4	BH-159 (8')	Total/NA	Solid	8015B NM	32669
890-2784-5	BH-162 (8')	Total/NA	Solid	8015B NM	32669
890-2784-6	BH-164 (8')	Total/NA	Solid	8015B NM	32669
890-2784-7	BH-166 (8')	Total/NA	Solid	8015B NM	32669
890-2784-8	BH-167 (8')	Total/NA	Solid	8015B NM	32669
890-2784-9	BH-168 (5')	Total/NA	Solid	8015B NM	32669
890-2784-10	BH-169 (5')	Total/NA	Solid	8015B NM	32669
890-2784-11	BH-170 (5')	Total/NA	Solid	8015B NM	32669
890-2784-12	BH-171 (5')	Total/NA	Solid	8015B NM	32669
890-2784-13	BH-172 (6')	Total/NA	Solid	8015B NM	32669
890-2784-14	BH-173 (6')	Total/NA	Solid	8015B NM	32669
890-2784-15	BH-174 (6')	Total/NA	Solid	8015B NM	32669
890-2784-16	BH-175 (4.5')	Total/NA	Solid	8015B NM	32669
890-2784-17	BH-176 (4.5')	Total/NA	Solid	8015B NM	32669
890-2784-18	BH-177 (4.5')	Total/NA	Solid	8015B NM	32669
890-2784-19	BH-178 (4.5')	Total/NA	Solid	8015B NM	32669
890-2784-20	BH-179 (4.5')	Total/NA	Solid	8015B NM	32669
MB 880-32669/1-A	Method Blank	Total/NA	Solid	8015B NM	32669
LCS 880-32669/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	32669
LCSD 880-32669/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	32669
890-2784-1 MS	BH-120 (8')	Total/NA	Solid	8015B NM	32669
890-2784-1 MSD	BH-120 (8')	Total/NA	Solid	8015B NM	32669

Prep Batch: 32669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-1	BH-120 (8')	Total/NA	Solid	8015NM Prep	
890-2784-2	BH-124 (8')	Total/NA	Solid	8015NM Prep	

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Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC Semi VOA (Continued)

Prep Batch: 32669 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-2784-3	BH-132 (8')	Total/NA	Solid	8015NM Prep	
890-2784-4	BH-159 (8')	Total/NA	Solid	8015NM Prep	
890-2784-5	BH-162 (8')	Total/NA	Solid	8015NM Prep	
890-2784-6	BH-164 (8')	Total/NA	Solid	8015NM Prep	
890-2784-7	BH-166 (8')	Total/NA	Solid	8015NM Prep	
890-2784-8	BH-167 (8')	Total/NA	Solid	8015NM Prep	
890-2784-9	BH-168 (5')	Total/NA	Solid	8015NM Prep	
890-2784-10	BH-169 (5')	Total/NA	Solid	8015NM Prep	
890-2784-11	BH-170 (5')	Total/NA	Solid	8015NM Prep	
890-2784-12	BH-171 (5')	Total/NA	Solid	8015NM Prep	
890-2784-13	BH-172 (6')	Total/NA	Solid	8015NM Prep	
890-2784-14	BH-173 (6')	Total/NA	Solid	8015NM Prep	
890-2784-15	BH-174 (6')	Total/NA	Solid	8015NM Prep	
890-2784-16	BH-175 (4.5')	Total/NA	Solid	8015NM Prep	
890-2784-17	BH-176 (4.5')	Total/NA	Solid	8015NM Prep	
890-2784-18	BH-177 (4.5')	Total/NA	Solid	8015NM Prep	
890-2784-19	BH-178 (4.5')	Total/NA	Solid	8015NM Prep	
890-2784-20	BH-179 (4.5')	Total/NA	Solid	8015NM Prep	
MB 880-32669/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-32669/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-32669/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2784-1 MS	BH-120 (8')	Total/NA	Solid	8015NM Prep	
890-2784-1 MSD	BH-120 (8')	Total/NA	Solid	8015NM Prep	

Prep Batch: 32713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-48	SW-61 (8-13')	Total/NA	Solid	8015NM Prep	
890-2784-49	SW-62 (8-13')	Total/NA	Solid	8015NM Prep	
890-2784-50	SW-63 (8-13')	Total/NA	Solid	8015NM Prep	
890-2784-51	SW-64 (8-10')	Total/NA	Solid	8015NM Prep	
890-2784-52	SW-65 (8-10')	Total/NA	Solid	8015NM Prep	
890-2784-53	SW-66 (8-10')	Total/NA	Solid	8015NM Prep	
890-2784-54	SW-67 (8-10')	Total/NA	Solid	8015NM Prep	
890-2784-55	SW-68 (0-6')	Total/NA	Solid	8015NM Prep	
890-2784-56	SW-69 (0-6')	Total/NA	Solid	8015NM Prep	
890-2784-57	SW-70 (0-4.5')	Total/NA	Solid	8015NM Prep	
890-2784-58	SW-71 (0-4.5')	Total/NA	Solid	8015NM Prep	
MB 880-32713/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-32713/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-32713/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2786-A-2-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2786-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 32714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-21	BH-180 (4.5')	Total/NA	Solid	8015NM Prep	
890-2784-22	BH-181 (4.5')	Total/NA	Solid	8015NM Prep	
890-2784-23	BH-182 (4.5')	Total/NA	Solid	8015NM Prep	
890-2784-24	BH-183 (4.5')	Total/NA	Solid	8015NM Prep	
890-2784-25	BH-184 (4.5')	Total/NA	Solid	8015NM Prep	
890-2784-26	BH-185 (4.5')	Total/NA	Solid	8015NM Prep	

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-2784-1

SDG: Lea County NM

GC Semi VOA (Continued)

Prep Batch: 32714 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-27	BH-186 (4.5')	Total/NA	Solid	8015NM Prep	
890-2784-28	BH-187 (4.5')	Total/NA	Solid	8015NM Prep	
890-2784-29	BH-188 (4.5')	Total/NA	Solid	8015NM Prep	
890-2784-30	BH-189 (4.5')	Total/NA	Solid	8015NM Prep	
890-2784-31	SW-38 (4.5-13')	Total/NA	Solid	8015NM Prep	
890-2784-32	SW-42 (4.5-8')	Total/NA	Solid	8015NM Prep	
890-2784-33	SW-43 (6-8')	Total/NA	Solid	8015NM Prep	
890-2784-34	SW-44 (4.5-8')	Total/NA	Solid	8015NM Prep	
890-2784-35	SW-45 (0-8')	Total/NA	Solid	8015NM Prep	
890-2784-36	SW-46 (0-5')	Total/NA	Solid	8015NM Prep	
890-2784-37	SW-47 (0-5')	Total/NA	Solid	8015NM Prep	
890-2784-38	SW-48 (6-8')	Total/NA	Solid	8015NM Prep	
890-2784-39	SW-49 (4.5-6')	Total/NA	Solid	8015NM Prep	
890-2784-40	SW-53 (0-8')	Total/NA	Solid	8015NM Prep	
MB 880-32714/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-32714/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-32714/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2784-21 MS	BH-180 (4.5')	Total/NA	Solid	8015NM Prep	
890-2784-21 MSD	BH-180 (4.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 32730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-48	SW-61 (8-13')	Total/NA	Solid	8015B NM	32713
890-2784-49	SW-62 (8-13')	Total/NA	Solid	8015B NM	32713
890-2784-50	SW-63 (8-13')	Total/NA	Solid	8015B NM	32713
890-2784-51	SW-64 (8-10')	Total/NA	Solid	8015B NM	32713
890-2784-52	SW-65 (8-10')	Total/NA	Solid	8015B NM	32713
890-2784-53	SW-66 (8-10')	Total/NA	Solid	8015B NM	32713
890-2784-54	SW-67 (8-10')	Total/NA	Solid	8015B NM	32713
890-2784-55	SW-68 (0-6')	Total/NA	Solid	8015B NM	32713
890-2784-56	SW-69 (0-6')	Total/NA	Solid	8015B NM	32713
890-2784-57	SW-70 (0-4.5')	Total/NA	Solid	8015B NM	32713
890-2784-58	SW-71 (0-4.5')	Total/NA	Solid	8015B NM	32713
MB 880-32713/1-A	Method Blank	Total/NA	Solid	8015B NM	32713
LCS 880-32713/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	32713
LCSD 880-32713/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	32713
890-2786-A-2-C MS	Matrix Spike	Total/NA	Solid	8015B NM	32713
890-2786-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	32713

Prep Batch: 32774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-2784-41	SW-54 (0-4.5')	Total/NA	Solid	8015NM Prep	
890-2784-42	SW-55 (4.5-8')	Total/NA	Solid	8015NM Prep	
890-2784-43	SW-56 (0-4.5')	Total/NA	Solid	8015NM Prep	
890-2784-44	SW-57 (6-8')	Total/NA	Solid	8015NM Prep	
890-2784-45	SW-58 (6-8')	Total/NA	Solid	8015NM Prep	
890-2784-46	SW-59 (6-8')	Total/NA	Solid	8015NM Prep	
890-2784-47	SW-60 (0-13')	Total/NA	Solid	8015NM Prep	
MB 880-32774/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-32774/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-32774/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

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Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC Semi VOA (Continued)

Prep Batch: 32774 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-18428-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-18428-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bato
890-2784-1	BH-120 (8')	Total/NA	Solid	8015 NM	
890-2784-2	BH-124 (8')	Total/NA	Solid	8015 NM	
890-2784-3	BH-132 (8')	Total/NA	Solid	8015 NM	
890-2784-4	BH-159 (8')	Total/NA	Solid	8015 NM	
890-2784-5	BH-162 (8')	Total/NA	Solid	8015 NM	
890-2784-6	BH-164 (8')	Total/NA	Solid	8015 NM	
890-2784-7	BH-166 (8')	Total/NA	Solid	8015 NM	
890-2784-8	BH-167 (8')	Total/NA	Solid	8015 NM	
890-2784-9	BH-168 (5')	Total/NA	Solid	8015 NM	
890-2784-10	BH-169 (5')	Total/NA	Solid	8015 NM	
390-2784-11	BH-170 (5')	Total/NA	Solid	8015 NM	
890-2784-12	BH-171 (5')	Total/NA	Solid	8015 NM	
890-2784-13	BH-172 (6')	Total/NA	Solid	8015 NM	
890-2784-14	BH-173 (6')	Total/NA	Solid	8015 NM	
890-2784-15	BH-174 (6')	Total/NA	Solid	8015 NM	
890-2784-16	BH-175 (4.5')	Total/NA	Solid	8015 NM	
890-2784-17	BH-176 (4.5')	Total/NA	Solid	8015 NM	
890-2784-18	BH-177 (4.5')	Total/NA	Solid	8015 NM	
890-2784-19	BH-178 (4.5')	Total/NA	Solid	8015 NM	
890-2784-20	BH-179 (4.5')	Total/NA	Solid	8015 NM	
390-2784-21	BH-180 (4.5')	Total/NA	Solid	8015 NM	
390-2784-22	BH-181 (4.5')	Total/NA	Solid	8015 NM	
890-2784-23	BH-182 (4.5')	Total/NA	Solid	8015 NM	
890-2784-24	BH-183 (4.5')	Total/NA	Solid	8015 NM	
390-2784-25	BH-184 (4.5')	Total/NA	Solid	8015 NM	
890-2784-26	BH-185 (4.5')	Total/NA	Solid	8015 NM	
890-2784-27	BH-186 (4.5')	Total/NA	Solid	8015 NM	
890-2784-28	BH-187 (4.5')	Total/NA	Solid	8015 NM	
890-2784-29	BH-188 (4.5')	Total/NA	Solid	8015 NM	
390-2784-30	BH-189 (4.5')	Total/NA	Solid	8015 NM	
390-2784-31	SW-38 (4.5-13')	Total/NA	Solid	8015 NM	
890-2784-32	SW-42 (4.5-8')	Total/NA	Solid	8015 NM	
390-2784-33	SW-43 (6-8')	Total/NA	Solid	8015 NM	
390-2784-34	SW-44 (4.5-8')	Total/NA	Solid	8015 NM	
890-2784-35	SW-45 (0-8')	Total/NA	Solid	8015 NM	
890-2784-36	SW-46 (0-5')	Total/NA	Solid	8015 NM	
890-2784-37	SW-47 (0-5')	Total/NA	Solid	8015 NM	
890-2784-38	SW-48 (6-8')	Total/NA	Solid	8015 NM	
390-2784-39	SW-49 (4.5-6')	Total/NA	Solid	8015 NM	
390-2784-40	SW-53 (0-8')	Total/NA	Solid	8015 NM	
890-2784-41	SW-54 (0-4.5')	Total/NA	Solid	8015 NM	
890-2784-42	SW-55 (4.5-8')	Total/NA	Solid	8015 NM	
890-2784-43	SW-56 (0-4.5')	Total/NA	Solid	8015 NM	
890-2784-44	SW-57 (6-8')	Total/NA	Solid	8015 NM	
390-2784-45	SW-58 (6-8')	Total/NA	Solid	8015 NM	
890-2784-46	SW-59 (6-8')	Total/NA	Solid	8015 NM	

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Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC Semi VOA (Continued)

Analysis Batch: 32780 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-47	SW-60 (0-13')	Total/NA	Solid	8015 NM	
890-2784-48	SW-61 (8-13')	Total/NA	Solid	8015 NM	
890-2784-49	SW-62 (8-13')	Total/NA	Solid	8015 NM	
890-2784-50	SW-63 (8-13')	Total/NA	Solid	8015 NM	
890-2784-51	SW-64 (8-10')	Total/NA	Solid	8015 NM	
890-2784-52	SW-65 (8-10')	Total/NA	Solid	8015 NM	
890-2784-53	SW-66 (8-10')	Total/NA	Solid	8015 NM	
890-2784-54	SW-67 (8-10')	Total/NA	Solid	8015 NM	
890-2784-55	SW-68 (0-6')	Total/NA	Solid	8015 NM	
890-2784-56	SW-69 (0-6')	Total/NA	Solid	8015 NM	
890-2784-57	SW-70 (0-4.5')	Total/NA	Solid	8015 NM	
890-2784-58	SW-71 (0-4.5')	Total/NA	Solid	8015 NM	

Analysis Batch: 32806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-21	BH-180 (4.5')	Total/NA	Solid	8015B NM	32714
890-2784-22	BH-181 (4.5')	Total/NA	Solid	8015B NM	32714
890-2784-23	BH-182 (4.5')	Total/NA	Solid	8015B NM	32714
890-2784-24	BH-183 (4.5')	Total/NA	Solid	8015B NM	32714
890-2784-25	BH-184 (4.5')	Total/NA	Solid	8015B NM	32714
890-2784-26	BH-185 (4.5')	Total/NA	Solid	8015B NM	32714
890-2784-27	BH-186 (4.5')	Total/NA	Solid	8015B NM	32714
890-2784-28	BH-187 (4.5')	Total/NA	Solid	8015B NM	32714
890-2784-29	BH-188 (4.5')	Total/NA	Solid	8015B NM	32714
890-2784-30	BH-189 (4.5')	Total/NA	Solid	8015B NM	32714
890-2784-31	SW-38 (4.5-13')	Total/NA	Solid	8015B NM	32714
890-2784-32	SW-42 (4.5-8')	Total/NA	Solid	8015B NM	32714
890-2784-33	SW-43 (6-8')	Total/NA	Solid	8015B NM	32714
890-2784-34	SW-44 (4.5-8')	Total/NA	Solid	8015B NM	32714
890-2784-35	SW-45 (0-8')	Total/NA	Solid	8015B NM	32714
890-2784-36	SW-46 (0-5')	Total/NA	Solid	8015B NM	32714
890-2784-37	SW-47 (0-5')	Total/NA	Solid	8015B NM	32714
890-2784-38	SW-48 (6-8')	Total/NA	Solid	8015B NM	32714
890-2784-39	SW-49 (4.5-6')	Total/NA	Solid	8015B NM	32714
890-2784-40	SW-53 (0-8')	Total/NA	Solid	8015B NM	32714
MB 880-32714/1-A	Method Blank	Total/NA	Solid	8015B NM	32714
LCS 880-32714/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	32714
LCSD 880-32714/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	32714
890-2784-21 MS	BH-180 (4.5')	Total/NA	Solid	8015B NM	32714
890-2784-21 MSD	BH-180 (4.5')	Total/NA	Solid	8015B NM	32714

Analysis Batch: 32808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-41	SW-54 (0-4.5')	Total/NA	Solid	8015B NM	32774
890-2784-42	SW-55 (4.5-8')	Total/NA	Solid	8015B NM	32774
890-2784-43	SW-56 (0-4.5')	Total/NA	Solid	8015B NM	32774
890-2784-44	SW-57 (6-8')	Total/NA	Solid	8015B NM	32774
890-2784-45	SW-58 (6-8')	Total/NA	Solid	8015B NM	32774
890-2784-46	SW-59 (6-8')	Total/NA	Solid	8015B NM	32774
890-2784-47	SW-60 (0-13')	Total/NA	Solid	8015B NM	32774
MB 880-32774/1-A	Method Blank	Total/NA	Solid	8015B NM	32774

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Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

GC Semi VOA (Continued)

Analysis Batch: 32808 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-32774/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	32774
LCSD 880-32774/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	32774
880-18428-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	32774
880-18428-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	32774

HPLC/IC

Leach Batch: 32582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-1	BH-120 (8')	Soluble	Solid	DI Leach	
890-2784-2	BH-124 (8')	Soluble	Solid	DI Leach	
890-2784-3	BH-132 (8')	Soluble	Solid	DI Leach	
890-2784-4	BH-159 (8')	Soluble	Solid	DI Leach	
890-2784-5	BH-162 (8')	Soluble	Solid	DI Leach	
890-2784-6	BH-164 (8')	Soluble	Solid	DI Leach	
890-2784-7	BH-166 (8')	Soluble	Solid	DI Leach	
890-2784-8	BH-167 (8')	Soluble	Solid	DI Leach	
890-2784-9	BH-168 (5')	Soluble	Solid	DI Leach	
890-2784-10	BH-169 (5')	Soluble	Solid	DI Leach	
890-2784-11	BH-170 (5')	Soluble	Solid	DI Leach	
890-2784-12	BH-171 (5')	Soluble	Solid	DI Leach	
890-2784-13	BH-172 (6')	Soluble	Solid	DI Leach	
MB 880-32582/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-32582/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-32582/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2784-4 MS	BH-159 (8')	Soluble	Solid	DI Leach	
890-2784-4 MSD	BH-159 (8')	Soluble	Solid	DI Leach	

Leach Batch: 32583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-2784-14	BH-173 (6')	Soluble	Solid	DI Leach	_
890-2784-15	BH-174 (6')	Soluble	Solid	DI Leach	
390-2784-16	BH-175 (4.5')	Soluble	Solid	DI Leach	
390-2784-17	BH-176 (4.5')	Soluble	Solid	DI Leach	
390-2784-18	BH-177 (4.5')	Soluble	Solid	DI Leach	
390-2784-19	BH-178 (4.5')	Soluble	Solid	DI Leach	
390-2784-20	BH-179 (4.5')	Soluble	Solid	DI Leach	
390-2784-21	BH-180 (4.5')	Soluble	Solid	DI Leach	
390-2784-22	BH-181 (4.5')	Soluble	Solid	DI Leach	
90-2784-23	BH-182 (4.5')	Soluble	Solid	DI Leach	
90-2784-24	BH-183 (4.5')	Soluble	Solid	DI Leach	
90-2784-25	BH-184 (4.5')	Soluble	Solid	DI Leach	
90-2784-26	BH-185 (4.5')	Soluble	Solid	DI Leach	
90-2784-27	BH-186 (4.5')	Soluble	Solid	DI Leach	
90-2784-28	BH-187 (4.5')	Soluble	Solid	DI Leach	
90-2784-29	BH-188 (4.5')	Soluble	Solid	DI Leach	
90-2784-30	BH-189 (4.5')	Soluble	Solid	DI Leach	
90-2784-31	SW-38 (4.5-13')	Soluble	Solid	DI Leach	
90-2784-32	SW-42 (4.5-8')	Soluble	Solid	DI Leach	
90-2784-33	SW-43 (6-8')	Soluble	Solid	DI Leach	
MB 880-32583/1-A	Method Blank	Soluble	Solid	DI Leach	

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 32583 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-32583/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-32583/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2784-14 MS	BH-173 (6')	Soluble	Solid	DI Leach	
890-2784-14 MSD	BH-173 (6')	Soluble	Solid	DI Leach	
890-2784-24 MS	BH-183 (4.5')	Soluble	Solid	DI Leach	
890-2784-24 MSD	BH-183 (4.5')	Soluble	Solid	DI Leach	

Leach Batch: 32584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-34	SW-44 (4.5-8')	Soluble	Solid	DI Leach	
890-2784-35	SW-45 (0-8')	Soluble	Solid	DI Leach	
890-2784-36	SW-46 (0-5')	Soluble	Solid	DI Leach	
890-2784-37	SW-47 (0-5')	Soluble	Solid	DI Leach	
890-2784-38	SW-48 (6-8')	Soluble	Solid	DI Leach	
890-2784-39	SW-49 (4.5-6')	Soluble	Solid	DI Leach	
890-2784-40	SW-53 (0-8')	Soluble	Solid	DI Leach	
890-2784-41	SW-54 (0-4.5')	Soluble	Solid	DI Leach	
890-2784-42	SW-55 (4.5-8')	Soluble	Solid	DI Leach	
890-2784-43	SW-56 (0-4.5')	Soluble	Solid	DI Leach	
890-2784-44	SW-57 (6-8')	Soluble	Solid	DI Leach	
890-2784-45	SW-58 (6-8')	Soluble	Solid	DI Leach	
890-2784-46	SW-59 (6-8')	Soluble	Solid	DI Leach	
890-2784-47	SW-60 (0-13')	Soluble	Solid	DI Leach	
890-2784-48	SW-61 (8-13')	Soluble	Solid	DI Leach	
890-2784-49	SW-62 (8-13')	Soluble	Solid	DI Leach	
890-2784-50	SW-63 (8-13')	Soluble	Solid	DI Leach	
890-2784-51	SW-64 (8-10')	Soluble	Solid	DI Leach	
890-2784-52	SW-65 (8-10')	Soluble	Solid	DI Leach	
890-2784-53	SW-66 (8-10')	Soluble	Solid	DI Leach	
MB 880-32584/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-32584/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-32584/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2784-34 MS	SW-44 (4.5-8')	Soluble	Solid	DI Leach	
890-2784-34 MSD	SW-44 (4.5-8')	Soluble	Solid	DI Leach	
890-2784-44 MS	SW-57 (6-8')	Soluble	Solid	DI Leach	
890-2784-44 MSD	SW-57 (6-8')	Soluble	Solid	DI Leach	

Leach Batch: 32585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-54	SW-67 (8-10')	Soluble	Solid	DI Leach	_
890-2784-55	SW-68 (0-6')	Soluble	Solid	DI Leach	
890-2784-56	SW-69 (0-6')	Soluble	Solid	DI Leach	
890-2784-57	SW-70 (0-4.5')	Soluble	Solid	DI Leach	
890-2784-58	SW-71 (0-4.5')	Soluble	Solid	DI Leach	
MB 880-32585/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-32585/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-32585/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2784-54 MS	SW-67 (8-10')	Soluble	Solid	DI Leach	
890-2784-54 MSD	SW-67 (8-10')	Soluble	Solid	DI Leach	

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Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

HPLC/IC

Analysis Batch: 33167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-1	BH-120 (8')	Soluble	Solid	300.0	32582
890-2784-2	BH-124 (8')	Soluble	Solid	300.0	32582
890-2784-3	BH-132 (8')	Soluble	Solid	300.0	32582
890-2784-4	BH-159 (8')	Soluble	Solid	300.0	32582
890-2784-5	BH-162 (8')	Soluble	Solid	300.0	32582
890-2784-6	BH-164 (8')	Soluble	Solid	300.0	32582
890-2784-7	BH-166 (8')	Soluble	Solid	300.0	32582
890-2784-8	BH-167 (8')	Soluble	Solid	300.0	32582
890-2784-9	BH-168 (5')	Soluble	Solid	300.0	32582
890-2784-10	BH-169 (5')	Soluble	Solid	300.0	32582
890-2784-11	BH-170 (5')	Soluble	Solid	300.0	32582
890-2784-12	BH-171 (5')	Soluble	Solid	300.0	32582
890-2784-13	BH-172 (6')	Soluble	Solid	300.0	32582
MB 880-32582/1-A	Method Blank	Soluble	Solid	300.0	32582
LCS 880-32582/2-A	Lab Control Sample	Soluble	Solid	300.0	32582
LCSD 880-32582/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	32582
890-2784-4 MS	BH-159 (8')	Soluble	Solid	300.0	32582
890-2784-4 MSD	BH-159 (8')	Soluble	Solid	300.0	32582

Analysis Batch: 33168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-14	BH-173 (6')	Soluble	Solid	300.0	32583
890-2784-15	BH-174 (6')	Soluble	Solid	300.0	32583
890-2784-16	BH-175 (4.5')	Soluble	Solid	300.0	32583
890-2784-17	BH-176 (4.5')	Soluble	Solid	300.0	32583
890-2784-18	BH-177 (4.5')	Soluble	Solid	300.0	32583
890-2784-19	BH-178 (4.5')	Soluble	Solid	300.0	32583
890-2784-20	BH-179 (4.5')	Soluble	Solid	300.0	32583
890-2784-21	BH-180 (4.5')	Soluble	Solid	300.0	32583
890-2784-22	BH-181 (4.5')	Soluble	Solid	300.0	32583
890-2784-23	BH-182 (4.5')	Soluble	Solid	300.0	32583
890-2784-24	BH-183 (4.5')	Soluble	Solid	300.0	32583
390-2784-25	BH-184 (4.5')	Soluble	Solid	300.0	32583
890-2784-26	BH-185 (4.5')	Soluble	Solid	300.0	32583
390-2784-27	BH-186 (4.5')	Soluble	Solid	300.0	32583
390-2784-28	BH-187 (4.5')	Soluble	Solid	300.0	32583
390-2784-29	BH-188 (4.5')	Soluble	Solid	300.0	32583
890-2784-30	BH-189 (4.5')	Soluble	Solid	300.0	32583
890-2784-31	SW-38 (4.5-13')	Soluble	Solid	300.0	32583
890-2784-32	SW-42 (4.5-8')	Soluble	Solid	300.0	32583
890-2784-33	SW-43 (6-8')	Soluble	Solid	300.0	32583
MB 880-32583/1-A	Method Blank	Soluble	Solid	300.0	32583
LCS 880-32583/2-A	Lab Control Sample	Soluble	Solid	300.0	32583
LCSD 880-32583/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	32583
890-2784-14 MS	BH-173 (6')	Soluble	Solid	300.0	32583
390-2784-14 MSD	BH-173 (6')	Soluble	Solid	300.0	32583
890-2784-24 MS	BH-183 (4.5')	Soluble	Solid	300.0	32583
890-2784-24 MSD	BH-183 (4.5')	Soluble	Solid	300.0	32583

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-2784-1

SDG: Lea County NM

HPLC/IC

Analysis Batch: 33169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-2784-34	SW-44 (4.5-8')	Soluble	Solid	300.0	3258
390-2784-35	SW-45 (0-8')	Soluble	Solid	300.0	3258
390-2784-36	SW-46 (0-5')	Soluble	Solid	300.0	3258
390-2784-37	SW-47 (0-5')	Soluble	Solid	300.0	3258
390-2784-38	SW-48 (6-8')	Soluble	Solid	300.0	3258
390-2784-39	SW-49 (4.5-6')	Soluble	Solid	300.0	3258
890-2784-40	SW-53 (0-8')	Soluble	Solid	300.0	3258
890-2784-41	SW-54 (0-4.5')	Soluble	Solid	300.0	3258
890-2784-42	SW-55 (4.5-8')	Soluble	Solid	300.0	3258
390-2784-43	SW-56 (0-4.5')	Soluble	Solid	300.0	3258
390-2784-44	SW-57 (6-8')	Soluble	Solid	300.0	3258
390-2784-45	SW-58 (6-8')	Soluble	Solid	300.0	3258
390-2784-46	SW-59 (6-8')	Soluble	Solid	300.0	3258
390-2784-47	SW-60 (0-13')	Soluble	Solid	300.0	3258
390-2784-48	SW-61 (8-13')	Soluble	Solid	300.0	3258
390-2784-49	SW-62 (8-13')	Soluble	Solid	300.0	3258
390-2784-50	SW-63 (8-13')	Soluble	Solid	300.0	3258
390-2784-51	SW-64 (8-10')	Soluble	Solid	300.0	3258
390-2784-52	SW-65 (8-10')	Soluble	Solid	300.0	3258
390-2784-53	SW-66 (8-10')	Soluble	Solid	300.0	3258
MB 880-32584/1-A	Method Blank	Soluble	Solid	300.0	3258
CS 880-32584/2-A	Lab Control Sample	Soluble	Solid	300.0	3258
CSD 880-32584/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	3258
390-2784-34 MS	SW-44 (4.5-8')	Soluble	Solid	300.0	3258
390-2784-34 MSD	SW-44 (4.5-8')	Soluble	Solid	300.0	3258
390-2784-44 MS	SW-57 (6-8')	Soluble	Solid	300.0	3258
890-2784-44 MSD	SW-57 (6-8')	Soluble	Solid	300.0	3258

Analysis Batch: 33170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2784-54	SW-67 (8-10')	Soluble	Solid	300.0	32585
890-2784-55	SW-68 (0-6')	Soluble	Solid	300.0	32585
890-2784-56	SW-69 (0-6')	Soluble	Solid	300.0	32585
890-2784-57	SW-70 (0-4.5')	Soluble	Solid	300.0	32585
890-2784-58	SW-71 (0-4.5')	Soluble	Solid	300.0	32585
MB 880-32585/1-A	Method Blank	Soluble	Solid	300.0	32585
LCS 880-32585/2-A	Lab Control Sample	Soluble	Solid	300.0	32585
LCSD 880-32585/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	32585
890-2784-54 MS	SW-67 (8-10')	Soluble	Solid	300.0	32585
890-2784-54 MSD	SW-67 (8-10')	Soluble	Solid	300.0	32585

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Job ID: 890-2784-1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

SDG: Lea County NM

Lab Sample ID: 890-2784-1

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Client Sample ID: BH-120 (8')

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	33358	08/30/22 12:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 00:00	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32669	08/22/22 13:43	DM	EET MID
Total/NA	Analysis	8015B NM		1			32586	08/22/22 22:36	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	32582	08/21/22 19:23	SMC	EET MID
Soluble	Analysis	300.0		5	0 mL	0 mL	33167	08/29/22 04:12	CH	EET MID

Client Sample ID: BH-124 (8') Lab Sample ID: 890-2784-2

Date Collected: 08/18/22 00:00 Matrix: Solid

Date Received: 08/19/22 08:00

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 Total/NA Prep 5.01 g 5 mL 33358 08/30/22 12:01 EL EET MID Total/NA 8021B 5 mL 09/01/22 00:20 **EET MID** Analysis 1 5 mL 33411 MR Total/NA Total BTEX 33551 09/01/22 12:44 SM Analysis 1 **EET MID** Total/NA Analysis 8015 NM 32780 08/23/22 11:36 SM **EET MID** Total/NA 32669 Prep 8015NM Prep 10.03 g 08/22/22 13:43 DM EET MID 10 mL Total/NA Analysis 8015B NM 32586 08/22/22 23:41 SM **EET MID** Soluble 08/21/22 19:23 Leach DI Leach 4.98 g 50 mL 32582 SMC EET MID Soluble Analysis 300.0 0 mL 0 mL 33167 08/29/22 04:20 СН **EET MID**

Client Sample ID: BH-132 (8') Lab Sample ID: 890-2784-3 Date Collected: 08/18/22 00:00 **Matrix: Solid**

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	33358	08/30/22 12:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 00:41	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MIC
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32669	08/22/22 13:43	DM	EET MID
Total/NA	Analysis	8015B NM		1			32586	08/23/22 00:03	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	32582	08/21/22 19:23	SMC	EET MIC
Soluble	Analysis	300.0		1	0 mL	0 mL	33167	08/29/22 04:28	CH	EET MID

Lab Sample ID: 890-2784-4 Client Sample ID: BH-159 (8')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	33358	08/30/22 12:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 01:01	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID

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Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-159 (8')

Date Received: 08/19/22 08:00

Lab Sample ID: 890-2784-4 Date Collected: 08/18/22 00:00

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 8015 NM Analysis 32780 08/23/22 11:36 SM **EET MID** Total/NA Prep 8015NM Prep 10.02 g 10 mL 32669 08/22/22 13:43 DM **EET MID** Total/NA Analysis 8015B NM 32586 08/23/22 00:24 SM EET MID 1 Soluble 32582 08/21/22 19:23 SMC EET MID Leach DI Leach 5 g 50 mL 300.0 33167 08/29/22 04:35 Soluble Analysis 5 0 mL 0 mL СН **EET MID**

Client Sample ID: BH-162 (8') Lab Sample ID: 890-2784-5

Date Collected: 08/18/22 00:00 **Matrix: Solid** Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	33358	08/30/22 12:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 01:21	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32669	08/22/22 13:43	DM	EET MID
Total/NA	Analysis	8015B NM		1			32586	08/23/22 00:45	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	32582	08/21/22 19:23	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33167	08/29/22 04:59	CH	EET MID

Client Sample ID: BH-164 (8') Lab Sample ID: 890-2784-6 Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33358	08/30/22 12:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 01:42	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32669	08/22/22 13:43	DM	EET MID
Total/NA	Analysis	8015B NM		1			32586	08/23/22 01:06	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	32582	08/21/22 19:23	SMC	EET MID
Soluble	Analysis	300.0		5	0 mL	0 mL	33167	08/29/22 11:32	CH	EET MID

Client Sample ID: BH-166 (8') Lab Sample ID: 890-2784-7

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	33358	08/30/22 12:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 02:02	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g	10 mL	32669 32586	08/22/22 13:43 08/23/22 01:27	DM SM	EET MID EET MID

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Matrix: Solid

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-166 (8')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00 Lab Sample ID: 890-2784-7

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	32582	08/21/22 19:23	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33167	08/29/22 05:30	CH	EET MID

Client Sample ID: BH-167 (8')

Date Collected: 08/18/22 00:00

Lab Sample ID: 890-2784-8

Matrix: Solid

Date Collected: 08/18/22 00:00
Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	33358	08/30/22 12:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 02:23	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	32669	08/22/22 13:43	DM	EET MID
Total/NA	Analysis	8015B NM		1			32586	08/23/22 01:49	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	32582	08/21/22 19:23	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33167	08/29/22 05:38	CH	EET MID

Client Sample ID: BH-168 (5')

Lab Sample ID: 890-2784-9

Date Collected: 08/18/22 00:00 Matrix: Solid
Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	33358	08/30/22 12:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 02:43	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32669	08/22/22 13:43	DM	EET MID
Total/NA	Analysis	8015B NM		1			32586	08/23/22 02:10	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	32582	08/21/22 19:23	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33167	08/29/22 05:46	CH	EET MID

Client Sample ID: BH-169 (5')

Lab Sample ID: 890-2784-10

Date Collected: 08/18/22 00:00 Matrix: Solid
Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	33358	08/30/22 12:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 03:04	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32669	08/22/22 13:43	DM	EET MID
Total/NA	Analysis	8015B NM		1			32586	08/23/22 02:31	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	32582	08/21/22 19:23	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33167	08/29/22 05:54	CH	EET MID

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Client Sample ID: BH-170 (5')

Job ID: 890-2784-1 SDG: Lea County NM

Client: Tetra Tech, Inc.
Project/Site: Kaiser SWD

Lab Sample ID: 890-2784-11

Date Collected: 08/18/22 00:00 Matrix: Solid
Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33358	08/30/22 12:01	EL	EET MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 04:25	MR	EET MIC
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MI
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MI
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32669	08/22/22 13:43	DM	EET MIC
Total/NA	Analysis	8015B NM		1			32586	08/23/22 03:14	SM	EET MIC
Soluble	Leach	DI Leach			4.97 g	50 mL	32582	08/21/22 19:23	SMC	EET MIC
Soluble	Analysis	300.0		1	0 mL	0 mL	33167	08/29/22 06:02	CH	EET MI

Client Sample ID: BH-171 (5')

Lab Sample ID: 890-2784-12

Date Collected: 08/18/22 00:00 Matrix: Solid

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	33358	08/30/22 12:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 04:46	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32669	08/22/22 13:43	DM	EET MID
Total/NA	Analysis	8015B NM		1			32586	08/23/22 03:35	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	32582	08/21/22 19:23	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33167	08/29/22 06:10	CH	EET MID

Client Sample ID: BH-172 (6')

Date Collected: 08/18/22 00:00

Lab Sample ID: 890-2784-13

Matrix: Solid

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	33358	08/30/22 12:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 05:06	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32669	08/22/22 13:43	DM	EET MID
Total/NA	Analysis	8015B NM		1			32586	08/23/22 03:56	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	32582	08/21/22 19:23	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33167	08/29/22 06:17	CH	EET MID

Client Sample ID: BH-173 (6')

Date Collected: 08/18/22 00:00

Lab Sample ID: 890-2784-14

Matrix: Solid

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33358	08/30/22 12:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 05:26	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID

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Client Sample ID: BH-173 (6')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Job ID: 890-2784-1 SDG: Lea County NM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Lab Sample ID: 890-2784-14

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32669	08/22/22 13:43	DM	EET MID
Total/NA	Analysis	8015B NM		1			32586	08/23/22 04:17	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	32583	08/21/22 19:29	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33168	08/29/22 07:20	CH	EET MID

Client Sample ID: BH-174 (6') Lab Sample ID: 890-2784-15

Date Collected: 08/18/22 00:00 **Matrix: Solid**

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.09 g	5 mL	33358	08/30/22 12:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 05:47	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	32669	08/22/22 13:43	DM	EET MID
Total/NA	Analysis	8015B NM		1			32586	08/23/22 04:38	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	32583	08/21/22 19:29	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33168	08/29/22 07:44	CH	EET MID

Client Sample ID: BH-175 (4.5') Lab Sample ID: 890-2784-16

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	33358	08/30/22 12:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 06:07	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32669	08/22/22 13:43	DM	EET MID
Total/NA	Analysis	8015B NM		1			32586	08/23/22 04:59	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	32583	08/21/22 19:29	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33168	08/29/22 07:52	CH	EET MID

Lab Sample ID: 890-2784-17 Client Sample ID: BH-176 (4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33358	08/30/22 12:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 06:28	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.00 g	10 mL	32669 32586	08/22/22 13:43 08/23/22 05:21	DM SM	EET MID EET MID

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Matrix: Solid

Matrix: Solid

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-176 (4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00 Lab Sample ID: 890-2784-17

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	32583	08/21/22 19:29	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33168	08/29/22 08:00	CH	EET MID

Client Sample ID: BH-177 (4.5') Lab Sample ID: 890-2784-18

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	33358	08/30/22 12:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 06:48	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32669	08/22/22 13:43	DM	EET MID
Total/NA	Analysis	8015B NM		1			32586	08/23/22 05:42	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	32583	08/21/22 19:29	SMC	EET MID
Soluble	Analysis	300.0		5	0 mL	0 mL	33168	08/29/22 08:07	CH	EET MID

Client Sample ID: BH-178 (4.5') Lab Sample ID: 890-2784-19

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	33358	08/30/22 12:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 07:09	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32669	08/22/22 13:43	DM	EET MID
Total/NA	Analysis	8015B NM		1			32586	08/23/22 06:03	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	32583	08/21/22 19:29	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33168	08/29/22 08:31	CH	EET MID

Client Sample ID: BH-179 (4.5') Lab Sample ID: 890-2784-20

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	33358	08/30/22 12:01	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33411	09/01/22 07:29	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32669	08/22/22 13:43	DM	EET MID
Total/NA	Analysis	8015B NM		1			32586	08/23/22 06:24	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	32583	08/21/22 19:29	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33168	08/29/22 08:39	CH	EET MID

Job ID: 890-2784-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-180 (4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Lab Sample ID: 890-2784-21

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	33361	08/30/22 12:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	08/31/22 18:05	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32714	08/22/22 16:33	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/24/22 13:21	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	32583	08/21/22 19:29	SMC	EET MID
Soluble	Analysis	300.0		5	0 mL	0 mL	33168	08/29/22 08:47	CH	EET MID

Client Sample ID: BH-181 (4.5')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Lab Sample ID: 890-2784-22

Matrix: Solid

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 5.04 g 5 mL 33361 08/30/22 12:16 EL EET MID Total/NA 8021B 5 mL 33465 08/31/22 18:25 **EET MID** Analysis 1 5 mL MR Total/NA Total BTEX 33551 09/01/22 12:44 SM Analysis **EET MID** 1 Total/NA Analysis 8015 NM 32780 08/23/22 11:36 SM **EET MID** Total/NA 32714 Prep 8015NM Prep 10.03 g 08/22/22 16:33 DM EET MID 10 mL Total/NA Analysis 8015B NM 32806 08/24/22 14:26 SM **EET MID** Soluble 08/21/22 19:29 Leach DI Leach 4.99 g 50 mL 32583 SMC EET MID Soluble Analysis 300.0 5 0 mL 0 mL 33168 08/29/22 08:54 СН **EET MID**

Client Sample ID: BH-182 (4.5')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Lab Sample ID: 890-2784-23

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	33361	08/30/22 12:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	08/31/22 18:46	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32714	08/22/22 16:33	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/24/22 14:47	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	32583	08/21/22 19:29	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33168	08/29/22 09:02	CH	EET MID

Client Sample ID: BH-183 (4.5')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Lab Sample	ID:	890-2784-24
		Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	33361	08/30/22 12:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	08/31/22 19:06	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Client Sample ID: BH-183 (4.5') Lab Sample ID: 890-2784-24 Date Collected: 08/18/22 00:00

Matrix: Solid

Date Received: 08/19/22 08:00 Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Analysis 8015 NM 32780 08/23/22 11:36 SM **EET MID**

Total/NA Prep 8015NM Prep 10.02 g 10 mL 32714 08/22/22 16:33 DM **EET MID** Total/NA Analysis 8015B NM 32806 08/24/22 15:17 SM **EET MID** 1 32583 08/21/22 19:29 Soluble Leach DI Leach 5.03 g 50 mL SMC **EET MID** Soluble Analysis 300.0 1 0 mL 0 mL 33168 08/29/22 09:10 СН **EET MID**

Client Sample ID: BH-184 (4.5') Lab Sample ID: 890-2784-25

Date Collected: 08/18/22 00:00 **Matrix: Solid** Date Received: 08/19/22 08:00

Batch Batch Dil Initial Final Batch Prepared Method Amount Amount Number **Prep Type** Type Run Factor or Analyzed Analyst Lab Prep 5035 Total/NA 5.00 g 5 mL 33361 08/30/22 12:16 EL **EET MID** Total/NA Analysis 8021B 5 mL 5 mL 33465 08/31/22 19:26 MR **EET MID** 1 Total/NA Analysis Total BTEX 1 33551 09/01/22 12:44 SM **EET MID** Total/NA 8015 NM 32780 08/23/22 11:36 SM **EET MID** Analysis 1 Total/NA Prep 8015NM Prep 10.01 g 10 mL 32714 08/22/22 16:33 DM **EET MID** Total/NA 8015B NM 32806 08/24/22 16:17 SM **EET MID** Analysis 1 Soluble Leach DI Leach 4.95 g 50 mL 32583 08/21/22 19:29 SMC **EET MID** Soluble Analysis 300.0 1 0 mL $0 \, ml$ 33168 08/29/22 09:34 СН **EET MID**

Client Sample ID: BH-185 (4.5') Lab Sample ID: 890-2784-26

Date Collected: 08/18/22 00:00 **Matrix: Solid** Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	33361	08/30/22 12:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	08/31/22 19:47	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32714	08/22/22 16:33	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/24/22 16:39	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	32583	08/21/22 19:29	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33168	08/29/22 09:42	CH	EET MID

Client Sample ID: BH-186 (4.5') Lab Sample ID: 890-2784-27

Date Collected: 08/18/22 00:00 **Matrix: Solid** Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33361	08/30/22 12:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	08/31/22 20:07	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32714	08/22/22 16:33	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/24/22 18:48	SM	EET MID

Client Sample ID: BH-186 (4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Lab Sample ID: 890-2784-27

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	32583	08/21/22 19:29	SMC	EET MID
Soluble	Analysis	300.0		5	0 mL	0 mL	33168	08/29/22 10:05	CH	EET MID

Client Sample ID: BH-187 (4.5') Lab Sample ID: 890-2784-28

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 33361 EL EET MID Prep 4.96 g 5 mL 08/30/22 12:16 8021B Total/NA 5 mL Analysis 1 5 mL 33465 08/31/22 20:28 MR **EET MID** Total/NA Total BTEX 33551 09/01/22 12:44 Analysis SM **EET MID** 1 Total/NA Analysis 8015 NM 32780 08/23/22 11:36 SM **EET MID** Total/NA Prep 8015NM Prep 10.02 g 10 mL 32714 08/22/22 16:33 DM **EET MID** 8015B NM Total/NA Analysis 1 32806 08/24/22 17:01 SM **EET MID** Soluble DI Leach 5.03 g 50 mL 32583 08/21/22 19:29 SMC **EET MID** Leach 300.0 33168 08/29/22 10:13 СН **EET MID** Soluble Analysis 1 0 mL 0 mL

Lab Sample ID: 890-2784-29 Client Sample ID: BH-188 (4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Matrix: Solid

Dil Batch Batch Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 5.01 g 5 mL 33361 08/30/22 12:16 EL **EET MID** 5 mL Total/NA 8021B Analysis 1 5 mL 33465 08/31/22 20:48 MR **EET MID** Total/NA Analysis Total BTEX 33551 09/01/22 12:44 SM **EET MID** 1 Total/NA Analysis 8015 NM 1 32780 08/23/22 11:36 SM **EET MID** Total/NA Prep 8015NM Prep 10.01 g 32714 08/22/22 16:33 DM EET MID 10 mL 08/24/22 17:23 Total/NA Analysis 8015B NM 1 32806 SM **EET MID** Soluble Leach DI Leach 5.01 g 50 mL 32583 08/21/22 19:29 SMC **EET MID**

Client Sample ID: BH-189 (4.5') Lab Sample ID: 890-2784-30

0 mL

0 mL

33168

08/29/22 10:21

CH

5

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Analysis

300.0

Soluble

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	33361	08/30/22 12:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	08/31/22 22:59	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	32714	08/22/22 16:33	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/24/22 17:44	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	32583	08/21/22 19:29	SMC	EET MIC
Soluble	Analysis	300.0		1	0 mL	0 mL	33168	08/29/22 10:29	CH	EET MID

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EET MID

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-38 (4.5-13')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00 Lab Sample ID: 890-2784-31

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	33361	08/30/22 12:16	EL	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	33465	08/31/22 21:09	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32714	08/22/22 16:33	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/24/22 20:15	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	32583	08/21/22 19:29	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33168	08/29/22 10:36	CH	EET MID

Client Sample ID: SW-42 (4.5-8')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00 Lab Sample ID: 890-2784-32

Matrix: Solid

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 4.96 g 5 mL 33361 08/30/22 12:16 EL EET MID Total/NA 8021B 5 mL 33465 08/31/22 23:19 **EET MID** Analysis 1 5 mL MR Total/NA Total BTEX 33551 09/01/22 12:44 SM Analysis **EET MID** 1 Total/NA Analysis 8015 NM 32780 08/23/22 11:36 SM **EET MID** Total/NA 32714 Prep 8015NM Prep 10.03 g 08/22/22 16:33 DM **EET MID** 10 mL Total/NA Analysis 8015B NM 32806 08/24/22 18:06 SM **EET MID** Soluble 08/21/22 19:29 Leach DI Leach 5.03 g 50 mL 32583 SMC **EET MID** Soluble Analysis 300.0 0 mL 0 mL 33168 08/29/22 10:44 СН **EET MID**

Client Sample ID: SW-43 (6-8')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00 Lab Sample ID: 890-2784-33

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	33361	08/30/22 12:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	08/31/22 23:40	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32714	08/22/22 16:33	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/24/22 20:36	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	32583	08/21/22 19:29	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33168	08/29/22 10:52	CH	EET MID

Client Sample ID: SW-44 (4.5-8')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Lab	Sample	ID:	890-2784-34
			Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Total/NA	Prep	5035			5.05 g	5 mL	33361	08/30/22 12:16	EL	EET MID	
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 00:00	MR	EET MID	
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID	

Client Sample ID: SW-44 (4.5-8')

Job ID: 890-2784-1 SDG: Lea County NM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Lab Sample ID: 890-2784-34

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00 Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32714	08/22/22 16:33	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/24/22 20:58	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	32584	08/21/22 19:35	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33169	08/29/22 14:49	CH	EET MID

Client Sample ID: SW-45 (0-8') Lab Sample ID: 890-2784-35

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	33361	08/30/22 12:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 00:20	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32714	08/22/22 16:33	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/24/22 19:32	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	32584	08/21/22 19:35	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33169	08/29/22 15:12	CH	EET MID

Client Sample ID: SW-46 (0-5') Lab Sample ID: 890-2784-36

Date Collected: 08/18/22 00:00 **Matrix: Solid** Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	33361	08/30/22 12:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 00:41	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32714	08/22/22 16:33	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/24/22 21:19	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	32584	08/21/22 19:35	SMC	EET MID
Soluble	Analysis	300.0		5	0 mL	0 mL	33169	08/29/22 15:20	CH	EET MID

Client Sample ID: SW-47 (0-5') Lab Sample ID: 890-2784-37

Date Collected: 08/18/22 00:00 **Matrix: Solid** Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	33361	08/30/22 12:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 01:01	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32714	08/22/22 16:33	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/24/22 21:41	SM	EET MID

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Lab Sample ID: 890-2784-37

Matrix: Solid

Client Sample ID: SW-47 (0-5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep T	уре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	e	Leach	DI Leach			5.02 g	50 mL	32584	08/21/22 19:35	SMC	EET MID
Soluble	е	Analysis	300.0		1	0 mL	0 mL	33169	08/29/22 15:28	CH	EET MID

Client Sample ID: SW-48 (6-8') Lab Sample ID: 890-2784-38

Date Collected: 08/18/22 00:00 **Matrix: Solid**

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	33361	08/30/22 12:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 01:21	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	32714	08/22/22 16:33	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/24/22 19:53	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	32584	08/21/22 19:35	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33169	08/29/22 15:36	CH	EET MID

Client Sample ID: SW-49 (4.5-6')

Lab Sample ID: 890-2784-39 Date Collected: 08/18/22 00:00 **Matrix: Solid**

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	33361	08/30/22 12:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 01:42	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32714	08/22/22 16:33	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/24/22 19:10	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	32584	08/21/22 19:35	SMC	EET MID
Soluble	Analysis	300.0		5	0 mL	0 mL	33169	08/29/22 15:59	CH	EET MID

Client Sample ID: SW-53 (0-8')

Lab Sample ID: 890-2784-40 Date Collected: 08/18/22 00:00 Matrix: Solid

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	33361	08/30/22 12:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 02:02	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32714	08/22/22 16:33	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/24/22 22:02	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	32584	08/21/22 19:35	SMC	EET MID
Soluble	Analysis	300.0		5	0 mL	0 mL	33169	08/29/22 16:07	CH	EET MID

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-54 (0-4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00 Lab Sample ID: 890-2784-41

Lab Sample ID: 890-2784-43

Lab Sample ID: 890-2784-44

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	33362	08/30/22 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 05:39	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	32774	08/23/22 10:46	DM	EET MID
Total/NA	Analysis	8015B NM		1			32808	08/24/22 23:07	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	32584	08/21/22 19:35	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33169	08/29/22 16:15	CH	EET MID

Client Sample ID: SW-55 (4.5-8') Lab Sample ID: 890-2784-42 Matrix: Solid

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.08 g	5 mL	33362	08/30/22 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 06:00	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32774	08/23/22 10:46	DM	EET MID
Total/NA	Analysis	8015B NM		1			32808	08/24/22 23:29	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	32584	08/21/22 19:35	SMC	EET MID
Soluble	Analysis	300.0		5	0 mL	0 mL	33169	08/29/22 16:23	CH	EET MID

Client Sample ID: SW-56 (0-4.5')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33362	08/30/22 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 06:20	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32774	08/23/22 10:46	DM	EET MID
Total/NA	Analysis	8015B NM		1			32808	08/24/22 23:51	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	32584	08/21/22 19:35	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33169	08/29/22 16:31	CH	EET MID

Client Sample ID: SW-57 (6-8')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	33362	08/30/22 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 06:40	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID

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Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-57 (6-8')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00 Lab Sample ID: 890-2784-44

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32774	08/23/22 10:46	DM	EET MID
Total/NA	Analysis	8015B NM		1			32808	08/25/22 00:12	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	32584	08/21/22 19:35	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33169	08/29/22 16:39	CH	EET MID

Client Sample ID: SW-58 (6-8')

Lab Sample ID: 890-2784-45

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	33362	08/30/22 12:29	EL	EET MID
Total/NA	Analysis	8021B		5	5 mL	5 mL	33465	09/01/22 09:42	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	32774	08/23/22 10:46	DM	EET MID
Total/NA	Analysis	8015B NM		1			32808	08/25/22 00:33	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	32584	08/21/22 19:35	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33169	08/29/22 17:03	CH	EET MID

Client Sample ID: SW-59 (6-8')

Date Collected: 08/18/22 00:00

Lab Sample ID: 890-2784-46

Matrix: Solid

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	33362	08/30/22 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 07:01	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	32774	08/23/22 10:46	DM	EET MID
Total/NA	Analysis	8015B NM		1			32808	08/25/22 00:54	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	32584	08/21/22 19:35	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33169	08/29/22 17:10	CH	EET MID

Client Sample ID: SW-60 (0-13')

Lab Sample ID: 890-2784-47

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	33362	08/30/22 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 07:21	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g	10 mL	32774 32808	08/23/22 10:46 08/25/22 01:16	DM AJ	EET MID EET MID

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Matrix: Solid

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Released to Imaging: 9/1/2023 2:55:43 PM

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Client Sample ID: SW-60 (0-13')

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Lab Sample ID: 890-2784-47

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Method Prep Type Туре Run Factor Amount Amount Number or Analyzed Analyst Lab Soluble DI Leach 32584 SMC Leach 5.02 g 50 mL 08/21/22 19:35 **EET MID** 300.0 08/29/22 17:32 Soluble Analysis 5 0 mL 0 mL 33169 СН **EET MID**

Client Sample ID: SW-61 (8-13') Lab Sample ID: 890-2784-48

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	33362	08/30/22 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 07:42	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32713	08/22/22 16:29	DM	EET MID
Total/NA	Analysis	8015B NM		1			32730	08/23/22 20:43	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	32584	08/21/22 19:35	SMC	EET MID
Soluble	Analysis	300.0		10	0 mL	0 mL	33169	08/29/22 17:39	CH	EET MID

Client Sample ID: SW-62 (8-13') Lab Sample ID: 890-2784-49

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	33362	08/30/22 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 08:02	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32713	08/22/22 16:29	DM	EET MID
Total/NA	Analysis	8015B NM		1			32730	08/23/22 22:50	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	32584	08/21/22 19:35	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33169	08/29/22 17:46	CH	EET MID

Client Sample ID: SW-63 (8-13')

Lab Sample ID: 890-2784-50

Matrix: Solid

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	33362	08/30/22 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 08:22	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32713	08/22/22 16:29	DM	EET MID
Total/NA	Analysis	8015B NM		1			32730	08/23/22 21:04	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	32584	08/21/22 19:35	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33169	08/29/22 17:54	CH	EET MID

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Lab Sample ID: 890-2784-51

Client Sample ID: SW-64 (8-10') Date Collected: 08/18/22 00:00 Matrix: Solid Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	33362	08/30/22 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 11:32	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32713	08/22/22 16:29	DM	EET MID
Total/NA	Analysis	8015B NM		1			32730	08/23/22 23:11	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	32584	08/21/22 19:35	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33169	08/29/22 18:01	CH	EET MID

Client Sample ID: SW-65 (8-10') Lab Sample ID: 890-2784-52

Date Collected: 08/18/22 00:00 Matrix: Solid

Date Received: 08/19/22 08:00

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 Total/NA Prep 5.00 g 5 mL 33362 08/30/22 12:29 EL EET MID Total/NA 8021B 5 mL 33465 09/01/22 11:52 **EET MID** Analysis 1 5 mL MR Total/NA Total BTEX 33551 09/01/22 12:44 SM Analysis **EET MID** 1 Total/NA Analysis 8015 NM 32780 08/23/22 11:36 SM **EET MID** Total/NA 32713 08/22/22 16:29 Prep 8015NM Prep 10.02 g DM **EET MID** 10 mL Total/NA Analysis 8015B NM 32730 08/23/22 23:32 ΑJ **EET MID** Soluble Leach 08/21/22 19:35 SMC DI Leach 5.05 g 50 mL 32584 **EET MID** Soluble Analysis 300.0 0 mL 0 mL 33169 08/29/22 18:08 СН **EET MID**

Client Sample ID: SW-66 (8-10') Lab Sample ID: 890-2784-53

Date Collected: 08/18/22 00:00 **Matrix: Solid** Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	33362	08/30/22 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 12:13	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32713	08/22/22 16:29	DM	EET MID
Total/NA	Analysis	8015B NM		1			32730	08/23/22 23:53	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	32584	08/21/22 19:35	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33169	08/29/22 18:15	CH	EET MID

Client Sample ID: SW-67 (8-10') Lab Sample ID: 890-2784-54

Date Collected: 08/18/22 00:00 **Matrix: Solid** Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	33362	08/30/22 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 12:33	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Client Sample ID: SW-67 (8-10')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00 Lab Sample ID: 890-2784-54

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	32713	08/22/22 16:29	DM	EET MID
Total/NA	Analysis	8015B NM		1			32730	08/24/22 00:14	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	32585	08/21/22 19:42	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33170	08/29/22 09:12	CH	EET MID

Client Sample ID: SW-68 (0-6') Lab Sample ID: 890-2784-55

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	33362	08/30/22 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 12:53	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32713	08/22/22 16:29	DM	EET MID
Total/NA	Analysis	8015B NM		1			32730	08/24/22 00:36	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	32585	08/21/22 19:42	SMC	EET MID
Soluble	Analysis	300.0		5	0 mL	0 mL	33170	08/29/22 09:40	CH	EET MID

Client Sample ID: SW-69 (0-6') Lab Sample ID: 890-2784-56 Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	33362	08/30/22 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 13:14	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32713	08/22/22 16:29	DM	EET MID
Total/NA	Analysis	8015B NM		1			32730	08/23/22 22:07	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	32585	08/21/22 19:42	SMC	EET MID
Soluble	Analysis	300.0		10	0 mL	0 mL	33170	08/29/22 09:49	CH	EET MID

Client Sample ID: SW-70 (0-4.5') Lab Sample ID: 890-2784-57

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	33362	08/30/22 12:29	EL	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	33465	09/01/22 14:35	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.04 g	10 mL	32713 32730	08/22/22 16:29 08/23/22 22:29	DM AJ	EET MID EET MID

Eurofins Carlsbad

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Matrix: Solid

Matrix: Solid

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-70 (0-4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00 Lab Sample ID: 890-2784-57

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	32585	08/21/22 19:42	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33170	08/29/22 09:58	CH	EET MID

Client Sample ID: SW-71 (0-4.5') Lab Sample ID: 890-2784-58

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	33362	08/30/22 12:29	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	09/01/22 13:34	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			32780	08/23/22 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32713	08/22/22 16:29	DM	EET MID
Total/NA	Analysis	8015B NM		1			32730	08/24/22 00:57	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	32585	08/21/22 19:42	SMC	EET MID
Soluble	Analysis	300.0		5	0 mL	0 mL	33170	08/29/22 10:07	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-24	06-30-23
The following analytes	are included in this report, bu	n this report, but the laboratory is not certified	ed by the governing authority. This list ma	av include analytes for w
the agency does not of	fer certification.	•	, , ,	.,
the agency does not of Analysis Method	fer certification . Prep Method	Matrix	Analyte	-,,,
9 ,		Matrix Solid	Analyte Total TPH	

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Method Summary

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

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Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-2784-1

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2784-1	BH-120 (8')	Solid	08/18/22 00:00	08/19/22 08:00	8
890-2784-2	BH-124 (8')	Solid	08/18/22 00:00	08/19/22 08:00	8
890-2784-3	BH-132 (8')	Solid	08/18/22 00:00	08/19/22 08:00	8
890-2784-4	BH-159 (8')	Solid	08/18/22 00:00	08/19/22 08:00	8
890-2784-5	BH-162 (8')	Solid	08/18/22 00:00	08/19/22 08:00	8
890-2784-6	BH-164 (8')	Solid	08/18/22 00:00	08/19/22 08:00	8
890-2784-7	BH-166 (8')	Solid	08/18/22 00:00	08/19/22 08:00	8
890-2784-8	BH-167 (8')	Solid	08/18/22 00:00	08/19/22 08:00	8
890-2784-9	BH-168 (5')	Solid	08/18/22 00:00	08/19/22 08:00	5
890-2784-10	BH-169 (5')	Solid	08/18/22 00:00	08/19/22 08:00	5
890-2784-11	BH-170 (5')	Solid	08/18/22 00:00	08/19/22 08:00	5
890-2784-12	BH-171 (5')	Solid	08/18/22 00:00	08/19/22 08:00	5
890-2784-13	BH-172 (6')	Solid	08/18/22 00:00	08/19/22 08:00	6
890-2784-14	BH-173 (6')	Solid	08/18/22 00:00	08/19/22 08:00	6
890-2784-15	BH-174 (6')	Solid	08/18/22 00:00	08/19/22 08:00	6
890-2784-16	BH-175 (4.5')	Solid	08/18/22 00:00	08/19/22 08:00	4.5
890-2784-17	BH-176 (4.5')	Solid	08/18/22 00:00	08/19/22 08:00	4.5
890-2784-18	BH-177 (4.5')	Solid	08/18/22 00:00	08/19/22 08:00	4.5
890-2784-19	BH-178 (4.5')	Solid	08/18/22 00:00	08/19/22 08:00	4.5
890-2784-20	BH-179 (4.5')	Solid	08/18/22 00:00	08/19/22 08:00	4.5
890-2784-21	BH-180 (4.5')	Solid	08/18/22 00:00	08/19/22 08:00	4.5
890-2784-22	BH-181 (4.5')	Solid	08/18/22 00:00	08/19/22 08:00	4.5
890-2784-23	BH-182 (4.5')	Solid	08/18/22 00:00	08/19/22 08:00	4.5
890-2784-24	BH-183 (4.5')	Solid	08/18/22 00:00	08/19/22 08:00	4.5
890-2784-25	BH-184 (4.5')	Solid	08/18/22 00:00	08/19/22 08:00	4.5
890-2784-26	BH-185 (4.5')	Solid	08/18/22 00:00	08/19/22 08:00	4.5
890-2784-27	BH-186 (4.5')	Solid	08/18/22 00:00	08/19/22 08:00	4.5
890-2784-28	BH-187 (4.5')	Solid	08/18/22 00:00	08/19/22 08:00	4.5
890-2784-29	BH-188 (4.5')	Solid	08/18/22 00:00	08/19/22 08:00	4.5
890-2784-30	BH-189 (4.5')	Solid	08/18/22 00:00	08/19/22 08:00	4.5
890-2784-31	SW-38 (4.5-13')	Solid	08/18/22 00:00	08/19/22 08:00	4.5 - 13
890-2784-32	SW-42 (4.5-8')	Solid	08/18/22 00:00	08/19/22 08:00	4.5 - 8
890-2784-33	SW-43 (6-8')	Solid	08/18/22 00:00	08/19/22 08:00	6 - 8
890-2784-34	SW-44 (4.5-8')	Solid	08/18/22 00:00	08/19/22 08:00	4.5 - 8
890-2784-35	SW-45 (0-8')	Solid	08/18/22 00:00	08/19/22 08:00	0 - 8
890-2784-36	SW-46 (0-5')	Solid	08/18/22 00:00	08/19/22 08:00	0 - 5
890-2784-37	SW-47 (0-5')	Solid	08/18/22 00:00	08/19/22 08:00	0 - 5
890-2784-38	SW-48 (6-8')	Solid	08/18/22 00:00	08/19/22 08:00	6 - 8
890-2784-39	SW-49 (4.5-6')	Solid	08/18/22 00:00	08/19/22 08:00	4.5 - 6
890-2784-40	SW-53 (0-8')	Solid	08/18/22 00:00	08/19/22 08:00	0-8
890-2784-41	SW-54 (0-4.5')	Solid	08/18/22 00:00	08/19/22 08:00	0 - 4.5
890-2784-42	SW-55 (4.5-8')	Solid	08/18/22 00:00	08/19/22 08:00	4.5 - 8
890-2784-43	SW-56 (0-4.5')	Solid	08/18/22 00:00	08/19/22 08:00	0 - 4.5
890-2784-44	SW-57 (6-8')	Solid	08/18/22 00:00	08/19/22 08:00	6 - 8
890-2784-45	SW-58 (6-8')	Solid	08/18/22 00:00	08/19/22 08:00	6 - 8
890-2784-46	SW-59 (6-8')	Solid	08/18/22 00:00	08/19/22 08:00	6-8
890-2784-47	SW-60 (0-13')	Solid	08/18/22 00:00	08/19/22 08:00	0 - 13
890-2784-48	SW-61 (8-13')	Solid	08/18/22 00:00	08/19/22 08:00	8 - 13
890-2784-49	SW-62 (8-13')	Solid	08/18/22 00:00	08/19/22 08:00	8 - 13
890-2784-50	SW-63 (8-13')	Solid	08/18/22 00:00	08/19/22 08:00	8 - 13
890-2784-51	SW-64 (8-10')	Solid	08/18/22 00:00	08/19/22 08:00	8 - 10
890-2784-52	SW-65 (8-10')	Solid	08/18/22 00:00	08/19/22 08:00	8 - 10
890-2784-53	SW-66 (8-10')	Solid	08/18/22 00:00	08/19/22 08:00	8 - 10
890-2784-54	SW-67 (8-10')	Solid	08/18/22 00:00	08/19/22 08:00	8 - 10

Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-2784-1

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2784-55	SW-68 (0-6')	Solid	08/18/22 00:00	08/19/22 08:00	0 - 6
890-2784-56	SW-69 (0-6')	Solid	08/18/22 00:00	08/19/22 08:00	0 - 6
890-2784-57	SW-70 (0-4.5')	Solid	08/18/22 00:00	08/19/22 08:00	0 - 4.5
890-2784-58	SW-71 (0-4.5')	Solid	08/18/22 00:00	08/19/22 08:00	0 - 4.5

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		SAME	LING	МА	TRIX	F	PRESE ME	RVATI THOD	VE	RS	(Ž	E	GRO.		g As Ba	Ag As B	Solatiles		2608 / 6	Vol. 82	809	19		Sulfate	General Water Chemi	000		
LAB#	SAMPLE IDENTIFICATION	YEAR: 2020								AINE	ED (8021B	TX1005	8270C	tals A	etals /	olatile emi V		Vol. 8	Semi	3082	hocto		1 1	Water (B		
LAB USE)		DATE	TIME	WATE	SOIL	HCL	HNO ₃	Sone		# CONTAINERS	FILTERED (Y/N)		TPH T		Total Me	TCLP M	TCLP Volatiles TCLP Semi Volatiles	RCI	GC/MS Vol. 82608	GCAMS	PCB's	NORM PI M (Achector)	Chloride	Chloride	General \	All Inc.		
	BH-170 (5')	8/18/2022))	_				х	Х										х					
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	BH-172 (6')	8/18/2022			K		>	(x	X										X	Ц	\perp		Ц	\dashv
	BH-173 (6')	8/18/2022			X)	(X	X		Ш						_		Х	Ц	\perp		Ц	\perp
	BH-174 (6')	8/18/2022			K)	<				X	x					\perp				\perp	X	Ш	1		\sqcup	\dashv
	BH-175 (4.5')	8/18/2022			X		>	(х	X								\perp		Х	Ш			Ц	\perp
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	BH-177 (4.5')	8/18/2022)	X		>	<				х	Х				\perp						X	Ш			Ц	\perp
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Analysis R	equest of Chain of Custody Record																					Pag	е			<u>3</u> of		6
TŁ	Tetra Tech, Inc.			Mid	and,Te	682-4	4559																					
Client Name:	Permian Water Solutions	Site Manager		Clair			682-394 es	6				AN	IAL	/SIS	RE			- 0		16.		- Ala	الم	Ma I				
Project Name:	Kaiser SWD	- t	Clair.Gon	zales@	Dtet	rate	ech.c	om				1	1			Irci	e o		ped 	CITY	IVN	etho)a r	10.		1		
Project Locatio (county, state)	^{n:} Lea County, NM	Project #:		21	2C-	MD.	-022	30																ist)				
Invoice to:	Permian Water Solutions - Dusty McInturff												MRO)		윤	2								ached				
Receiving Labo	Eurofins Xenco	Sampler Sign	nature:	Pe	ytor	n Ol	iver						80		S de									ee af				
Comments:												8260B	080 - O		CdCr	3		,	70C/625				TDS	nistry (s	Q.			
		SAM	PLING	MATE	RIX	Р	RESER	NATIVE		ERS	Î,	BTE	GRO-		Ag As Ba	S	olatiles	0000	Vol 82	809		(SC	Sulfate	er Chen	Balanc			
LAB #	SAMPLE IDENTIFICATION	YEAR: 2020	TIME	WATER		HCL	HNO ₃	None		# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH 1X1005 (Ext to C35) TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Semi Vol 8270C/625	PCB's 8082/608	NORM	PLM (Asbestos)		General Water Chemistry (see attached list)	Anion/Cation Balance			Hold
	BH-180 (4.5')	8/18/2022		Х			×	1				х	X		T							×						
	BH-181 (4.5')	8/18/2022		Х			Х					х	Х									Х						
	BH-182 (4.5')	8/18/2022		Х			X					Х	Х									Х						
	BH-183 (4.5')	8/18/2022		Х			Х					х	Х				Ш					X						
	BH-184 (4.5')	8/18/2022		Х			Х					x	X				Ш					X		Ш				
	BH-185 (4.5')	8/18/2022		Х			X					X	Х							\perp	Ш	X						
	BH-186 (4.5')	8/18/2022		Х			Х					X	X				Ш					×		Ш				
	BH-187 (4.5')	8/18/2022		X			Х					X	X				Ш					X		Ш				
	BH-188 (4.5')	8/18/2022		Х		Ш	Х	Ц				X	X			\perp		1			Ц	X	$\overline{}$	Ц	\perp			
	BH-189 (4.5')	8/18/2022		Х			X					X	Х					\perp				Х	<u></u>					
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	Tetra Tech, Inc.					nd, Tex			•																		
Tt	retra reen, me.					(432) 6																					
ent Name:	Permian Water Solutions	Site Manager: Clair Gonzales							ANALYSIS REQUEST (Circle or Specify Method No.)																		
oject Name:	Kaiser SWD	Clair.Gonzales@tetratech.com						1	1	1	(C 	irc	le o	r Sp 	eci	ify I	Met 	hoo	i No) 	11	ı	ı				
oject Location	Lea County, NM	Project #:						223															=	2			
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celving Labo		Sampler Sign	ature:		Pey	yton	Oliv	er]_	000	020	Pb Se F	70 Se			5				#6	see attached list			
omments:												x 8260B	(35)	- 040	Total Metals Ag As Ba Cd Cr Pb Se Hg			624	70C/62				/^ I `	- 1			
		SAMI	PLING	MATRIX			PRESERVATIVE SY EX			(N	BTEX	Ext to	- CAD	g As B	Ag AS E	olatiles	260B /	Vol. 82	809	(S)	ì	Sulfate	Balan				
LAB#	SAMPLE IDENTIFICATION	YEAR: 2020		-		I				AIN	ED	8021B	1005	8270C	tals A	etals,	j m	100	Semi.	1085/	pesto	(III	S	ation			
LAB USE)		DATE	TIME	WATER	SOIL	Ġ	H H	ICE	None	# CONTAINERS	FILTERED (Y/N)	BTEX 8	TPH TX1005 (Ext to C35)	PAH 82	Total Me	TCLP Volatiles	TCLP Semi Volatiles	RCI GCANS	GC/MS Semi. Vol. 8270C/625	PCB's 8	NORM PLM (Asbestos)	Chloride	Chloride	General Water Chemistry Anion/Cation Balance			Hold
	SW-38 (4.5-13')	8/18/2022		Ť	Х			х				Х	×									х					
	SW-42 (4.5-8')	8/18/2022			Х			Х				Х	Х									Х	\prod				
	SW-43 (6-8')	8/18/2022			х			х		T		Х	X		П							Х	\Box				\perp
	SW-44 (4.5-8')	8/18/2022			Х			х				X	X		П						T	Х					\perp
	SW-45 (0-8')	8/18/2022			Х	T		х				X	X		П			T			T	Х					
	SW-46 (0-5')	8/18/2022			х			х				х	X									Х					\perp
	SW-47 (0-5')	8/18/2022			х		T	Х				Х	Х				П					Х					L
	SW-48 (6-8')	8/18/2022			X			х				X	X			T						Х					
	SW-49 (4.5-6')	8/18/2022			х			х		T		X	X				П	T				Х					I
	SW-53 (0-8')	8/18/2022			X			Х		T		Х	X				П	Т			T	Х	\Box	T		T	I
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TŁ	Tetra Tech, Inc.				Midlar	nd, Tex	Street, S (as 7970)	5																	
lient Name:		Tel (432) 682-4559 Fax (432) 682-3946 Site Manager:																							
roject Name	Permian Water Solutions	Oite Manager.		CI	ai r G	Sonz	ales					ANALYSIS REQUEST (Circle or Specify Method No.)													
	Kaiser SWD	Clair.Gonzales@tetratech.com												1				hec	l I	IVICE		1			
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ments:						-						8260B		Cd Cr Pt	TCLP Metals Ag As Ba Cd Cr Pb Se Hg			24 0C/625				Chloride Sulfate TDS			
		SAMP	SAMPLING			TRIX PRESERVATIVE METHOD				RS	2	TX1005 (Ext to C35)	GRO - D	As Ba	g As Ba	latiles		2608 / 624 Vol. 82700	PCB's 8082/608	(G)		Sulfate			
LAB#	SAMPLE IDENTIFICATION	YEAR: 2 020		-						AINE	λ) <u>(1</u>	1005	8015M(8270C Metals A	etals A	Volatiles Semi Vol		ol. &	082/	pesto	1 1	ชี			
ONLY		DATE	TIME	WATER	SOIL	2	HNO	ICE	2	CONTAINERS	FILTERED (Y/N)	BIEX 8021B	тРН 80	PAH 82 Total Me	CLP Me	TCLP Volatiles TCLP Semi Volatiles	RC.	GC/MS Vol. 82608 GC/MS Semi. Vol.	CB's 8	NORM PLM (Asbestos)	Chloride	Chloride			
	SW-5 (0-4.5')	8/18/2022		_	×	1	-	X		445		(x					1			x	Ť			
	SW-5 (4.5-8')	8/18/2022			×			х)	(x		П		П				X				
	SW-5 (0-4.5')	8/18/2022			×			х)		х								Х	\Box			
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	SW-6C(0-13')	8/18/2022			×			х			>	d	х		П		П				X	T			
	SW-6-1 (8-13')	8/18/2022			×	T		x)	7	x		П		П		П	T	X				
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Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2784-1

SDG Number: Lea County NM

List Source: Eurofins Carlsbad

Login Number: 2784 List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2784-1 SDG Number: Lea County NM

List Source: Eurofins Midland

List Source: Eurotins Midland
List Creation: 08/22/22 08:49 AM

List Number: 2 Creator: Rodriguez, Leticia

Login Number: 2784

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2785-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Kaiser SWD

For:

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Clair Gonzales

RAMER

Authorized for release by: 9/1/2022 12:08:19 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-2785-1 SDG: Lea County NM

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Definitions/Glossary

Job ID: 890-2785-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits. Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DΙ

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL ML Minimum Level (Dioxin) Most Probable Number MPN MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NFG Negative / Absent POS Positive / Present PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points RPD

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Tetra Tech, Inc.

Job ID: 890-2785-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Job ID: 890-2785-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2785-1

Receipt

The samples were received on 8/19/2022 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 7.0°C

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: BH-110 (6') (890-2785-1), BH-154 (8') (890-2785-2) and SW-41 (6-13') (890-2785-3). There was no cooling media present in the cooler. The client was contacted regarding this issue, and the laboratory was instructed to <CHOOSE_ONE> proceed with/cancel analysis

890-2785 Sample temp 7.2/7.0 there was no temp blank and samples were taken on the 18th- client said they just brought samples from fridge with no cooler and no temp blank- wants to processed with testing

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-2781-A-1-D). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike duplicate (MSD) recoveries for preparation batch 880-32668 and analytical batch 880-32588 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client: Tetra Tech, Inc. Job ID: 890-2785-1 Project/Site: Kaiser SWD SDG: Lea County NM

RL

0.00200

0.00200

0.00200

0.00399

0.00200

0.00399

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Client Sample ID: BH-110 (6')

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

Date Collected: 08/18/22 12:00 Date Received: 08/19/22 08:00

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00200 U

<0.00200 U

<0.00200 U

<0.00399 U

<0.00200 U

<0.00399 U

<49.9 U

Lab Sample ID: 890-2785-1

Matrix: Solid

Prepared	Analyzed	Dil Fac	
08/30/22 11:43	09/01/22 02:53	1	
08/30/22 11:43	09/01/22 02:53	1	
08/30/22 11:43	09/01/22 02:53	1	
08/30/22 11:43	09/01/22 02:53	1	
08/30/22 11:43	09/01/22 02:53	1	
08/30/22 11:43	09/01/22 02:53	1	

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115	70 - 130	08/30/22 11:43	09/01/22 02:53	1
1,4-Difluorobenzene (Surr)	97	70 - 130	08/30/22 11:43	09/01/22 02:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result Qua	alifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399 U	0.00399	mg/Kg			09/01/22 12:38	1

Method: 8015 NM - Diesel Range O	rganics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/k	g		08/23/22 14:48	1

Method: 8015B NM - Diesel Rang	ge Organics (DF	RO) (GC)						
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		08/22/22 13:39	08/23/22 04:59	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		08/22/22 13:39	08/23/22 04:59	1
C10-C28)								

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	08/22/22 13:39	08/23/22 04:59	1
o-Terphenyl	96		70 - 130	08/22/22 13:39	08/23/22 04:59	1

49.9

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	388		4.98		mg/Kg			08/29/22 10:38	1

Client Sample ID: BH-154 (8') Lab Sample ID: 890-2785-2 Date Collected: 08/18/22 12:00 **Matrix: Solid**

Date Received: 08/19/22 08:00

Oll Range Organics (Over C28-C36)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/30/22 11:43	09/01/22 03:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/30/22 11:43	09/01/22 03:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/30/22 11:43	09/01/22 03:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/30/22 11:43	09/01/22 03:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/30/22 11:43	09/01/22 03:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/30/22 11:43	09/01/22 03:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				08/30/22 11:43	09/01/22 03:19	1
1,4-Difluorobenzene (Surr)	95		70 - 130				08/30/22 11:43	09/01/22 03:19	1

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08/22/22 13:39

08/23/22 04:59

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2785-1

SDG: Lea County NM

Lab Sample ID: 890-2785-2

Matrix: Solid

Date Collected: 08/18/22 12:00 Date Received: 08/19/22 08:00

Client Sample ID: BH-154 (8')

Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			09/01/22 12:38	1
- Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/23/22 14:48	1
- Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/22/22 13:39	08/23/22 05:21	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		08/22/22 13:39	08/23/22 05:21	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 13:39	08/23/22 05:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113	·	70 - 130				08/22/22 13:39	08/23/22 05:21	1
o-Terphenyl	104		70 - 130				08/22/22 13:39	08/23/22 05:21	1
- Method: 300.0 - Anions, Ion Chr	omatography -	Soluble							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.9		5.03		mg/Kg			08/29/22 10:47	1

Client Sample ID: SW-41 (6-13')

Date Collected: 08/18/22 12:00 Date Received: 08/19/22 08:00

Lab Sample ID: 890-2785-3 **Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0403	U	0.0403		mg/Kg		08/30/22 11:43	09/01/22 00:23	20
Toluene	< 0.0403	U	0.0403		mg/Kg		08/30/22 11:43	09/01/22 00:23	20
Ethylbenzene	< 0.0403	U	0.0403		mg/Kg		08/30/22 11:43	09/01/22 00:23	20
m-Xylene & p-Xylene	<0.0806	U	0.0806		mg/Kg		08/30/22 11:43	09/01/22 00:23	20
o-Xylene	< 0.0403	U	0.0403		mg/Kg		08/30/22 11:43	09/01/22 00:23	20
Xylenes, Total	<0.0806	U	0.0806		mg/Kg		08/30/22 11:43	09/01/22 00:23	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				08/30/22 11:43	09/01/22 00:23	20
	00		70 - 130				08/30/22 11:43	09/01/22 00:23	20
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total B Analyte		Qualifier		MDI	Unit	n			
			70 - 130				06/30/22 11.43	09/01/22 00.23	20
	TEX Calculation	Qualifier U	RL 0.0806	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 09/01/22 12:38	Dil Fac
Method: Total BTEX - Total B Analyte Total BTEX	TEX Calculation Result <0.0806	U	RL	MDL		<u> </u>		Analyzed	Dil Fac
Method: Total BTEX - Total B Analyte	TEX Calculation Result <0.0806 nge Organics (DR0	U	RL	MDL MDL	mg/Kg	<u>D</u>		Analyzed	Dil Fac
Method: Total BTEX - Total B Analyte Total BTEX Method: 8015 NM - Diesel Ra	TEX Calculation Result <0.0806 nge Organics (DR0	U O) (GC) Qualifier	RL 0.0806		mg/Kg		Prepared	Analyzed 09/01/22 12:38	Dil Fac
Method: Total BTEX - Total B Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte	TEX Calculation Result <0.0806 nge Organics (DRO Result <49.9	O) (GC) Qualifier	RL 		mg/Kg		Prepared	Analyzed 09/01/22 12:38 Analyzed	Dil Fac
Method: Total BTEX - Total B Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte Total TPH	TEX Calculation Result <0.0806 nge Organics (DRO Result <49.9 ange Organics (DI	O) (GC) Qualifier	RL 		mg/Kg Unit mg/Kg		Prepared	Analyzed 09/01/22 12:38 Analyzed	Dil Fac
Method: Total BTEX - Total B Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte Total TPH Method: 8015B NM - Diesel R	TEX Calculation Result <0.0806 nge Organics (DRO Result <49.9 ange Organics (DI	O) (GC) Qualifier U RO) (GC) Qualifier	RL 0.0806 RL 49.9	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 09/01/22 12:38 Analyzed 08/23/22 14:48	Dil Fac

Client Sample Results

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-2785-1

SDG: Lea County NM

Client Sample ID: SW-41 (6-13')

Date Collected: 08/18/22 12:00 Date Received: 08/19/22 08:00 **Lab Sample ID: 890-2785-3**

Matrix: Solid

Organics (D	RO) (GC) (C	ontinued)					
Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
<49.9	U	49.9	mg/Kg		08/22/22 13:39	08/23/22 05:42	1
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
109		70 - 130			08/22/22 13:39	08/23/22 05:42	1
99		70 - 130			08/22/22 13:39	08/23/22 05:42	1
	Result <49.9	Result Qualifier	<49.9	Result Qualifier RL MDL model Unit mg/Kg **Recovery 109 Qualifier Limits 70 - 130	Result Qualifier RL MDL mit mg/Kg D 49.9 U 49.9 mg/Kg D %Recovery 109 Qualifier Limits 70 - 130 Limits 70 - 130 D	Result Qualifier RL MDL mg/Kg D Prepared <49.9 U	Result Qualifier RL MDL unit mg/Kg D Prepared 08/22/22 13:39 Analyzed 08/23/22 05:42 %Recovery 109

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	707		4.99		mg/Kg			08/29/22 10:56	1

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13

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-2785-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-18581-A-21-E MS	Matrix Spike	101	104	
880-18581-A-21-F MSD	Matrix Spike Duplicate	110	108	
890-2785-1	BH-110 (6')	115	97	
890-2785-2	BH-154 (8')	107	95	
890-2785-3	SW-41 (6-13')	113	93	
LCS 880-33353/1-A	Lab Control Sample	107	106	
LCSD 880-33353/2-A	Lab Control Sample Dup	101	101	
MB 880-33353/5-A	Method Blank	74	82	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-2781-A-1-E MS	Matrix Spike	117	90
890-2781-A-1-F MSD	Matrix Spike Duplicate	87	76
890-2785-1	BH-110 (6')	107	96
890-2785-2	BH-154 (8')	113	104
890-2785-3	SW-41 (6-13')	109	99
LCS 880-32668/2-A	Lab Control Sample	98	91
LCSD 880-32668/3-A	Lab Control Sample Dup	92	91
MB 880-32668/1-A	Method Blank	101	96

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-2785-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-33353/5-A

Lab Sample ID: LCS 880-33353/1-A

Matrix: Solid Analysis Batch: 33469 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33353

	мв	мв							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 11:43	08/31/22 20:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 11:43	08/31/22 20:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 11:43	08/31/22 20:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/30/22 11:43	08/31/22 20:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 11:43	08/31/22 20:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/30/22 11:43	08/31/22 20:07	1

MB MB

Surrogate	%Recovery Qualit	ier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74	70 - 130	08/30/22 11:43	08/31/22 20:07	1
1,4-Difluorobenzene (Surr)	82	70 - 130	08/30/22 11:43	08/31/22 20:07	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33353

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits mg/Kg Benzene 0.100 0.1114 111 70 - 130 0.1082 Toluene 0.100 mg/Kg 108 70 - 130 0.100 0.1049 Ethylbenzene mg/Kg 105 70 - 130 0.200 106 70 - 130 m-Xylene & p-Xylene 0.2121 mg/Kg 0.100 70 - 130 o-Xylene 0.1197 mg/Kg 120

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	107	70 - 130
1,4-Difluorobenzene (Surr)	106	70 - 130

Lab Sample ID: LCSD 880-33353/2-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 33469

Analysis Batch: 33469

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 33353

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit 96 Benzene 0.100 0.09634 mg/Kg 70 - 130 14 35 Toluene 0.100 0.09803 mg/Kg 98 70 - 130 10 35 Ethylbenzene 0.100 0.09504 mg/Kg 95 70 - 130 10 35 0.200 m-Xylene & p-Xylene 0.1926 mg/Kg 96 70 - 130 10 35 0.100 0.1063 o-Xylene mg/Kg 106 70 - 130 12 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1.4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-18581-A-21-E MS

Matrix: Solid

Analysis Batch: 33469

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 33353

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.101	0.1065		mg/Kg		105	70 - 130	
Toluene	<0.00199	U	0.101	0.1017		mg/Kg		101	70 - 130	

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Prep Type: Total/NA

Prep Batch: 32668

Job ID: 890-2785-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-18581-A-21-E MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 33469 Prep Batch: 33353 Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits D

< 0.00199 U 0.101 0.09276 92 70 - 130 Ethylbenzene mg/Kg m-Xylene & p-Xylene <0.00398 0.202 0.1866 mg/Kg 92 70 - 130 <0.00199 U 0.101 0.1040 70 - 130 o-Xylene mg/Kg 103

MS MS Surrogate Qualifier Limits %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 101 1,4-Difluorobenzene (Surr) 70 - 130 104

Lab Sample ID: 880-18581-A-21-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 33469

Prep Batch: 33353 Sample Sample Spike MSD MSD RPD Result Qualifier RPD Limit Analyte babbA Result Qualifier %Rec Limits Unit Benzene <0.00199 U 0.100 0.1162 mg/Kg 116 70 - 130 9 35 Toluene <0.00199 0.100 0.1098 mg/Kg 110 70 - 130 8 35 Ethylbenzene <0.00199 0.100 0.1011 101 70 - 130 35 U mg/Kg 9 m-Xylene & p-Xylene <0.00398 U 0.200 0.2022 mg/Kg 101 70 - 130 8 35 70 - 130 0.100 35 o-Xylene <0.00199 U 0.1134 mg/Kg 113

MSD MSD Qualifier Limits Surrogate %Recovery 4-Bromofluorobenzene (Surr) 110 70 - 130 1,4-Difluorobenzene (Surr) 108 70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-32668/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 32588

l		MB	MB							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/22/22 13:39	08/22/22 21:31	1
	Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/22/22 13:39	08/22/22 21:31	1
	Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 13:39	08/22/22 21:31	1

MB MB %Recovery Dil Fac Qualifier Limits Prepared Analyzed Surrogate 08/22/22 13:39 1-Chlorooctane 101 70 - 130 08/22/22 21:31 96 70 - 130 08/22/22 13:39 08/22/22 21:31 o-Terphenyl

Lab Sample ID: LCS 880-32668/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 32588

LCS LCS %Rec Spike Analyte Added Result Qualifier Unit %Rec Limits 1000 96 962.3 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10

Diesel Range Organics (Over 1000 942.6 mg/Kg 94 70 - 130 C10-C28)

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Prep Batch: 32668

Job ID: 890-2785-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

LCS LCS

Lab Sample ID: LCS 880-32668/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 32588

Prep Type: Total/NA

Prep Batch: 32668

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 98 70 - 130 o-Terphenyl 91 70 - 130

Lab Sample ID: LCSD 880-32668/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 32588

Prep Type: Total/NA

Prep Batch: 32668

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 887.7 89 70 - 1308 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 941.0 94 mg/Kg 70 - 1300 20 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 92 70 - 130 1-Chlorooctane 91 70 - 130 o-Terphenyl

Lab Sample ID: 890-2781-A-1-E MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 32588

Prep Type: Total/NA

Prep Batch: 32668

Sample Sample MS MS Spike Analyte Added Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U F1 999 1306 mg/Kg 127 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 999 1201 mg/Kg 120 70 - 130

C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 117 o-Terphenyl 90 70 - 130

Lab Sample ID: 890-2781-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

Analysis Batch: 32588

Matrix: Solid

Prep Type: Total/NA

Prep Batch: 32668

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit U F1 998 1415 F1 Gasoline Range Organics <49.9 mg/Kg 138 70 - 130 8 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 998 1042 mg/Kg 104 70 - 130 14 20

C10-C28)

MSD MSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	87	70 - 130
o-Terphenyl	76	70 - 130

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2785-1 SDG: Lea County NM

Prep Type: Soluble

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-32585/1-A

Lab Sample ID: LCS 880-32585/2-A

Matrix: Solid

Analysis Batch: 33170

MB MB

MDL Unit Dil Fac Analyte Result Qualifier RL D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 08/29/22 08:44

Client Sample ID: Lab Control Sample

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Client Sample ID: Method Blank

Prep Type: Soluble

Analysis Batch: 33170

Matrix: Solid

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 250.5 mg/Kg 100 90 - 110

Lab Sample ID: LCSD 880-32585/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 33170

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 248.0 mg/Kg 90 - 110

Lab Sample ID: 890-2784-A-54-B MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 33170

Spike MS MS Sample Sample %Rec Analyte Result Qualifier Added Qualifier %Rec Result Unit Limits Chloride 215 252 478.7 105 90 - 110 mg/Kg

Lab Sample ID: 890-2784-A-54-C MSD

Matrix: Solid

Analysis Batch: 33170

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 252 215 486.1 mg/Kg 108 90 - 110 20

QC Association Summary

Client: Tetra Tech, Inc.

Job ID: 890-2785-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC VOA

Prep Batch: 33353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2785-1	BH-110 (6')	Total/NA	Solid	5035	
890-2785-2	BH-154 (8')	Total/NA	Solid	5035	
890-2785-3	SW-41 (6-13')	Total/NA	Solid	5035	
MB 880-33353/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-33353/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-33353/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-18581-A-21-E MS	Matrix Spike	Total/NA	Solid	5035	
880-18581-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 33469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2785-1	BH-110 (6')	Total/NA	Solid	8021B	33353
890-2785-2	BH-154 (8')	Total/NA	Solid	8021B	33353
890-2785-3	SW-41 (6-13')	Total/NA	Solid	8021B	33353
MB 880-33353/5-A	Method Blank	Total/NA	Solid	8021B	33353
LCS 880-33353/1-A	Lab Control Sample	Total/NA	Solid	8021B	33353
LCSD 880-33353/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	33353
880-18581-A-21-E MS	Matrix Spike	Total/NA	Solid	8021B	33353
880-18581-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	33353

Analysis Batch: 33548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2785-1	BH-110 (6')	Total/NA	Solid	Total BTEX	
890-2785-2	BH-154 (8')	Total/NA	Solid	Total BTEX	
890-2785-3	SW-41 (6-13')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 32588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2785-1	BH-110 (6')	Total/NA	Solid	8015B NM	32668
890-2785-2	BH-154 (8')	Total/NA	Solid	8015B NM	32668
890-2785-3	SW-41 (6-13')	Total/NA	Solid	8015B NM	32668
MB 880-32668/1-A	Method Blank	Total/NA	Solid	8015B NM	32668
LCS 880-32668/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	32668
LCSD 880-32668/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	32668
890-2781-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	32668
890-2781-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	32668

Prep Batch: 32668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2785-1	BH-110 (6')	Total/NA	Solid	8015NM Prep	
890-2785-2	BH-154 (8')	Total/NA	Solid	8015NM Prep	
890-2785-3	SW-41 (6-13')	Total/NA	Solid	8015NM Prep	
MB 880-32668/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-32668/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-32668/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2781-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2781-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-2785-1

SDG: Lea County NM

GC Semi VOA

Analysis Batch: 32787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2785-1	BH-110 (6')	Total/NA	Solid	8015 NM	
890-2785-2	BH-154 (8')	Total/NA	Solid	8015 NM	
890-2785-3	SW-41 (6-13')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 32585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2785-1	BH-110 (6')	Soluble	Solid	DI Leach	 .
890-2785-2	BH-154 (8')	Soluble	Solid	DI Leach	
890-2785-3	SW-41 (6-13')	Soluble	Solid	DI Leach	
MB 880-32585/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-32585/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-32585/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2784-A-54-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2784-A-54-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 33170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2785-1	BH-110 (6')	Soluble	Solid	300.0	32585
890-2785-2	BH-154 (8')	Soluble	Solid	300.0	32585
890-2785-3	SW-41 (6-13')	Soluble	Solid	300.0	32585
MB 880-32585/1-A	Method Blank	Soluble	Solid	300.0	32585
LCS 880-32585/2-A	Lab Control Sample	Soluble	Solid	300.0	32585
LCSD 880-32585/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	32585
890-2784-A-54-B MS	Matrix Spike	Soluble	Solid	300.0	32585
890-2784-A-54-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	32585

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Client: Tetra Tech, Inc. Job ID: 890-2785-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-110 (6')

Date Collected: 08/18/22 12:00 Date Received: 08/19/22 08:00 Lab Sample ID: 890-2785-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33353	08/30/22 11:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33469	09/01/22 02:53	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33548	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			32787	08/23/22 14:48	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g	10 mL	32668 32588	08/22/22 13:39 08/23/22 04:59	DM SM	EET MID EET MID
Soluble Soluble	Leach Analysis	DI Leach 300.0		1	5.02 g 0 mL	50 mL 0 mL	32585 33170	08/21/22 19:42 08/29/22 10:38	SMC CH	EET MID EET MID

Client Sample ID: BH-154 (8') Lab Sample ID: 890-2785-2

Date Collected: 08/18/22 12:00 Date Received: 08/19/22 08:00

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	33353	08/30/22 11:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33469	09/01/22 03:19	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33548	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			32787	08/23/22 14:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	32668	08/22/22 13:39	DM	EET MID
Total/NA	Analysis	8015B NM		1			32588	08/23/22 05:21	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	32585	08/21/22 19:42	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33170	08/29/22 10:47	CH	EET MID

Client Sample ID: SW-41 (6-13')

Date Collected: 08/18/22 12:00 Date Received: 08/19/22 08:00

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	33353	08/30/22 11:43	EL	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	33469	09/01/22 00:23	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33548	09/01/22 12:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			32787	08/23/22 14:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32668	08/22/22 13:39	DM	EET MID
Total/NA	Analysis	8015B NM		1			32588	08/23/22 05:42	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	32585	08/21/22 19:42	SMC	EET MIC
Soluble	Analysis	300.0		1	0 mL	0 mL	33170	08/29/22 10:56	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Lab Sample ID: 890-2785-3

Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Job ID: 890-2785-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-24	06-30-23
The following analytes	are included in this report, bu	it the laboratory is not certific	ed by the governing authority. This list ma	av include analytes for
the agency does not of	fer certification.	•	, , ,	·, ·····
the agency does not of Analysis Method	fer certification . Prep Method	Matrix	Analyte	,
0 ,		Matrix Solid	, , ,	

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Method Summary

Client: Tetra Tech, Inc.

Job ID: 890-2785-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Sample Summary

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-2785-1

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-2785-1	BH-110 (6')	Solid	08/18/22 12:00	08/19/22 08:00
890-2785-2	BH-154 (8')	Solid	08/18/22 12:00	08/19/22 08:00
890-2785-3	SW-41 (6-13')	Solid	08/18/22 12:00	08/19/22 08:00

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890-2785 Chain of Custody

9/1/2022

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Analysis Re	equest of Chain of Custody Record						-	90-270	33 011	ain or v	0400	-				-	_				Pag	ge			<u>1</u> of		1
TŁ	Tetra Tech, Inc.			Midland	1,Te	xas 7970 882-4559)5	•																			
Client Name:	Permian Water Solutions	Site Manager		Clair Go		32) 682- zales	3946				A	NAL	YSI						.15.	. 8.4	a d la	a d	Ma	1			
Project Name:	Kaiser SWD		Clair.Gor	nzales@te	etr	atech	,cor	n				1	I		IIC	le c	or S	pet 	iny 	IVI	em			., 	1	1	
Project Location county, state)	Lea County, NM	Project #:		2120)-N	ИD-02	2230)															ist)				
nvoice to:	Permian Water Solutions - Dusty McInturff												(DAMA)	Нg	운								ached				
Receiving Labor	Eurofins Xenco	Sampler Sign	ature:	Peyto	on	Olive	er				98	000	250	r Pb Se	S da 1			25					(see att				
omiliones.					_						EX 8260B	523	- DRO	Ba Cd C	Ba Cd	۵	700	3270C/6				The	emistry	<u>ş</u>			
		SAMF	PLING	MATRIX	1		SERV	ATIVE DD	VERS	(Y/N)	IB BT	35 (Ext to	N GRO	s Ag As	ls Ag As	Volatile	00000	ozona ni Vol	2/608		stos)	Suffeto	fater Chemistry (see attached list)	on Bala			
LAB#	SAMPLE IDENTIFICATION	DATE	TIME	WATER		HNO3	ICE	None	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH TX1005 (Ext to C35)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metal	TCLP Semi Volatiles	RCI	GC/MS Ser	PCB's 8082/608	NORM	PLM (Asbestos)	Chloride	General Water C	Anion/Cation Balance			Hold
	BH-110 (6')	8/18/2022		х	1		Х				Х	>										x					
	BH-154 (8')	8/18/2022		Х	I		Х				X	>								Ш		X					
	SW-41 (6-13')	8/18/2022		X	+	+	Х				X	,	(+			+				X	+				
					+				1	+			+		+				-		H	#	+		1		H
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telinquished by	y: Date: Time:	Received by				Date:	- 1	me:			-	7. c 7. r	۲M.	00	1		Spec	ial R	Repor	t Lin	nits c	or TR	RP F	Керог			
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9/1/2022

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2785-1

SDG Number: Lea County NM

List Source: Eurofins Carlsbad

Login Number: 2785 List Number: 1

Creator: Stutzman, Amanda

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2785-1 SDG Number: Lea County NM

List Source: Eurofins Midland

List Creation: 08/22/22 08:49 AM

Login Number: 2785 List Number: 2

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6 mm (1/4").	N/A	



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Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-2791-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Kaiser SWD

For:

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Clair Gonzales

RAMER

Authorized for release by: 9/2/2022 10:38:17 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-2791-1 SDG: Lea County NM

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Definitions/Glossary

Client: Tetra Tech, Inc.

Job ID: 890-2791-1

Project/Site: Kaiser SWD

SDG: Lea County NM

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Qualifiers

GC VOA
Qualifier Qualifier Description

MS and/or MSD recovery exceeds control limits.

Indicates the analyte was analyzed for but not detected.

U GC Semi VOA

Qualifier Qualifier Description

S1- Surrogate recovery exceeds control limits, low biased.
U Indicates the analyte was analyzed for but not detected.

HPLC/IC

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Case Narrative

Client: Tetra Tech, Inc.

Job ID: 890-2791-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Job ID: 890-2791-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2791-1

Receipt

The samples were received on 8/19/2022 3:48 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 26.6°C

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: SW-72 (0-4.5') (890-2791-1), BH-190 (4.5') (890-2791-2), BH-191 (4.5') (890-2791-3), BH-192 (4.5) (890-2791-4) and BH-193 (4.5') (890-2791-5). This does not meet regulatory requirements. The client was contacted regarding this issue, and the laboratory was instructed to <CHOOSE_ONE> proceed with/cancel analysis.

Samples received out of temp range 26.8/26.6 client wanted to proceed with sampling.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-33466 and analytical batch 880-33557 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The following samples were diluted because the initial analysis produced a significant negative result - the absolute value exceeded the reporting limit (RL): SW-72 (0-4.5') (890-2791-1) and BH-193 (4.5') (890-2791-5). Reporting limits (RLs) are elevated as a result.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: BH-193 (4.5') (890-2791-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2791-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-72 (0-4.5')

Date Collected: 08/19/22 12:00 Date Received: 08/19/22 15:48

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-2791-1

	Matrix:	Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0502	U	0.0502		mg/Kg		08/31/22 14:40	09/01/22 21:12	25
Toluene	<0.0502	U	0.0502		mg/Kg		08/31/22 14:40	09/01/22 21:12	25
Ethylbenzene	<0.0502	U	0.0502		mg/Kg		08/31/22 14:40	09/01/22 21:12	25
m-Xylene & p-Xylene	<0.100	U	0.100		mg/Kg		08/31/22 14:40	09/01/22 21:12	25
o-Xylene	<0.0502	U	0.0502		mg/Kg		08/31/22 14:40	09/01/22 21:12	25
Xylenes, Total	<0.100	U	0.100		mg/Kg		08/31/22 14:40	09/01/22 21:12	25
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				08/31/22 14:40	09/01/22 21:12	25
1,4-Difluorobenzene (Surr)	92		70 - 130				08/31/22 14:40	09/01/22 21:12	25
Method: Total BTEX - Total BTEX	K Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.100	U	0.100		mg/Kg			09/02/22 11:24	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
•		O) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte			RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/25/22 16:03	
Analyte Total TPH	Result 921	Qualifier		MDL		<u>D</u>	Prepared		
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Result 921 ge Organics (D	Qualifier		MDL MDL	mg/Kg	<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Result 921 ge Organics (D	Qualifier RO) (GC) Qualifier	49.9		mg/Kg			08/25/22 16:03	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result 921 ge Organics (D	Qualifier RO) (GC) Qualifier	49.9		mg/Kg Unit mg/Kg		Prepared	08/25/22 16:03 Analyzed	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 921 ge Organics (D	Qualifier RO) (GC) Qualifier	49.9		mg/Kg		Prepared	08/25/22 16:03 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 921 ge Organics (Di Result <49.9 921	Qualifier RO) (GC) Qualifier U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/23/22 15:10 08/23/22 15:10	08/25/22 16:03 Analyzed 08/25/22 01:58 08/25/22 01:58	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 921 ge Organics (Di Result <49.9	Qualifier RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 08/23/22 15:10	08/25/22 16:03 Analyzed 08/25/22 01:58	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result 921	Qualifier RO) (GC) Qualifier U	49.9 RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/23/22 15:10 08/23/22 15:10 08/23/22 15:10 Prepared	08/25/22 16:03 Analyzed 08/25/22 01:58 08/25/22 01:58 08/25/22 01:58 Analyzed	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 921	Qualifier RO) (GC) Qualifier U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/23/22 15:10 08/23/22 15:10 08/23/22 15:10	08/25/22 16:03 Analyzed 08/25/22 01:58 08/25/22 01:58	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result 921	Qualifier RO) (GC) Qualifier U	49.9 RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/23/22 15:10 08/23/22 15:10 08/23/22 15:10 Prepared	08/25/22 16:03 Analyzed 08/25/22 01:58 08/25/22 01:58 08/25/22 01:58 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result 921	Qualifier RO) (GC) Qualifier U	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/23/22 15:10 08/23/22 15:10 08/23/22 15:10 Prepared 08/23/22 15:10	08/25/22 16:03 Analyzed 08/25/22 01:58 08/25/22 01:58 Analyzed 08/25/22 01:58	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result 921 ge Organics (D) Result <49.9 921 49.9 %Recovery 112 105 omatography -	Qualifier RO) (GC) Qualifier U	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg		Prepared 08/23/22 15:10 08/23/22 15:10 08/23/22 15:10 Prepared 08/23/22 15:10	08/25/22 16:03 Analyzed 08/25/22 01:58 08/25/22 01:58 Analyzed 08/25/22 01:58	Dil Fac 1 Dil Fac 1 1 Dil Fac 1 Dil Fac

Client Sample ID: BH-190 (4.5') Lab Sample ID: 890-2791-2

Date Collected: 08/19/22 12:00

Date Received: 08/19/22 15:48

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/31/22 14:40	09/01/22 18:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/31/22 14:40	09/01/22 18:29	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		08/31/22 14:40	09/01/22 18:29	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399		mg/Kg		08/31/22 14:40	09/01/22 18:29	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		08/31/22 14:40	09/01/22 18:29	1
Xylenes, Total	<0.00399	U F1	0.00399		mg/Kg		08/31/22 14:40	09/01/22 18:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				08/31/22 14:40	09/01/22 18:29	1
1,4-Difluorobenzene (Surr)	101		70 - 130				08/31/22 14:40	09/01/22 18:29	1

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Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2791-1
Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-190 (4.5')

Date Collected: 08/19/22 12:00 Date Received: 08/19/22 15:48 Lab Sample ID: 890-2791-2

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/02/22 11:24	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	234		49.9		mg/Kg			08/25/22 16:03	1
Method: 8015B NM - Diesel Rang Analyte	,	RO) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9		49.9		mg/Kg	=	08/23/22 15:10	08/25/22 08:35	1
Diesel Range Organics (Over C10-C28)	234		49.9		mg/Kg		08/23/22 15:10	08/25/22 08:35	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/23/22 15:10	08/25/22 08:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Carrogate	,	-,							

Method: 300.0 - Anions, Ion Chromatography - SolubleAnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FacChloride6865.02mg/Kg08/24/22 15:251

70 - 130

Client Sample ID: BH-191 (4.5')

Date Collected: 08/19/22 12:00 Date Received: 08/19/22 15:48

o-Terphenyl

REMOVED FROM ANALYSIS TABLE

113

Lab Sample ID: 890-2791-3

08/25/22 08:35

08/23/22 15:10

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/31/22 14:40	09/01/22 18:49	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/31/22 14:40	09/01/22 18:49	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/31/22 14:40	09/01/22 18:49	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/31/22 14:40	09/01/22 18:49	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/31/22 14:40	09/01/22 18:49	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/31/22 14:40	09/01/22 18:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				08/31/22 14:40	09/01/22 18:49	1
			70 - 130				08/31/22 14:40	09/01/22 18:49	
Method: Total BTEX - Total BT Analyte	EX Calculation Result	Qualifier	RL	MDL	Unit	<u>D</u>	08/31/22 14:40 Prepared	Analyzed	Dil Fac
Method: Total BTEX - Total BTEAnalyte Total BTEX	EX Calculation Result <0.00402	U		MDL	Unit mg/Kg	<u>D</u>			Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Rang	EX Calculation Result <0.00402 ge Organics (DR	U (GC)	RL		mg/Kg		Prepared	Analyzed 09/02/22 11:24	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Rang Analyte	EX Calculation Result <0.00402 ge Organics (DR) Result	U			mg/Kg	<u>D</u>		Analyzed 09/02/22 11:24 Analyzed	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Rang	EX Calculation Result <0.00402 ge Organics (DR	U (GC)	RL		mg/Kg		Prepared	Analyzed 09/02/22 11:24	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Rang Analyte	EX Calculation Result <0.00402 ge Organics (DR) Result 1800	O) (GC) Qualifier			mg/Kg		Prepared	Analyzed 09/02/22 11:24 Analyzed	Dil Fac
Method: Total BTEX - Total BTEA Analyte Total BTEX Method: 8015 NM - Diesel Rang Analyte Total TPH Method: 8015B NM - Diesel Ra	EX Calculation Result <0.00402 ge Organics (DR) Result 1800 nge Organics (D	O) (GC) Qualifier		MDL	mg/Kg		Prepared	Analyzed 09/02/22 11:24 Analyzed	Dil Fac
Method: Total BTEX - Total BTEA Analyte Total BTEX Method: 8015 NM - Diesel Rang Analyte Total TPH	EX Calculation Result <0.00402 ge Organics (DR) Result 1800 nge Organics (D	O) (GC) Qualifier RO) (GC) Qualifier	RL 0.00402 RL 50.0	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 09/02/22 11:24 Analyzed 08/25/22 16:03	Dil Fac

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2791-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-191 (4.5') Date Collected: 08/19/22 12:00

Date Received: 08/19/22 15:48

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-2791-3

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/23/22 15:10	08/25/22 02:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				08/23/22 15:10	08/25/22 02:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit Dil Fac Prepared Analyzed 25.2 08/24/22 15:49 Chloride 249 mg/Kg

Client Sample ID: BH-192 (4.5)

Date Collected: 08/19/22 12:00 Date Received: 08/19/22 15:48 **REMOVED FROM ANALYSIS TABLE**

Lab Sample ID: 890-2791-4

Matrix: Solid

Method: 8021B - Volatile Orga	inic Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/31/22 14:40	09/01/22 19:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/31/22 14:40	09/01/22 19:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/31/22 14:40	09/01/22 19:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/31/22 14:40	09/01/22 19:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/31/22 14:40	09/01/22 19:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/31/22 14:40	09/01/22 19:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				08/31/22 14:40	09/01/22 19:09	1
1 A-Diffuorobenzene (Surr)	103		70 130				08/31/22 14:40	00/01/22 10:00	1

Surrogate	%Recovery Qu	uaimer Limits	Prepared	Anaiyzea	DII Fac
4-Bromofluorobenzene (Surr)	91	70 - 130	08/31/22 14:40	09/01/22 19:09	1
1,4-Difluorobenzene (Surr)	103	70 - 130	08/31/22 14:40	09/01/22 19:09	1

Method: Total BTEX - Total BTEX (Saiculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Total BTFX	<0.00399	U	0.00399		ma/Ka			09/02/22 11:24	

Method: 8015 NM - Diesel Range C	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2050		49.9		mg/Kg			08/25/22 16:03	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/23/22 15:10	08/25/22 03:02	1
Diesel Range Organics (Over C10-C28)	2050		49.9		mg/Kg		08/23/22 15:10	08/25/22 03:02	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/23/22 15:10	08/25/22 03:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				08/23/22 15:10	08/25/22 03:02	1

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.0		5.01		mg/Kg			08/24/22 15:57	1

70 - 130

95

Eurofins Carlsbad

08/25/22 03:02

08/23/22 15:10

Fac

o-Terphenyl

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-2791-1 SDG: Lea County NM

Client Sample ID: BH-193 (4.5')

Date Collected: 08/19/22 12:00

REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-2791-5

Matrix: Solid

	c Compounds ((GC)							
Method: 8021B - Volatile Organi Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.0497	U	0.0497		mg/Kg		08/31/22 14:40	09/01/22 21:32	2
Toluene	< 0.0497	U	0.0497		mg/Kg		08/31/22 14:40	09/01/22 21:32	2
Ethylbenzene	< 0.0497	U	0.0497		mg/Kg		08/31/22 14:40	09/01/22 21:32	2
m-Xylene & p-Xylene	<0.0994	U	0.0994		mg/Kg		08/31/22 14:40	09/01/22 21:32	2
o-Xylene	< 0.0497	U	0.0497		mg/Kg		08/31/22 14:40	09/01/22 21:32	2
Xylenes, Total	<0.0994	U	0.0994		mg/Kg		08/31/22 14:40	09/01/22 21:32	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	96		70 - 130				08/31/22 14:40	09/01/22 21:32	2
1,4-Difluorobenzene (Surr)	85		70 - 130				08/31/22 14:40	09/01/22 21:32	2
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.0994	U	0.0994		mg/Kg			09/02/22 11:24	
Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	16000		250		mg/Kg			08/25/22 16:03	
•									
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)							
		RO) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	
Analyte Gasoline Range Organics		Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared 08/23/22 15:10	Analyzed 08/25/22 03:23	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier		MDL		<u>D</u>	<u>.</u>		Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <250	Qualifier U	250	MDL	mg/Kg	<u> </u>	08/23/22 15:10	08/25/22 03:23	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <250 16000	Qualifier U	250 250	MDL	mg/Kg	<u>D</u>	08/23/22 15:10 08/23/22 15:10	08/25/22 03:23 08/25/22 03:23	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <250 16000 <250	Qualifier U Qualifier	250 250 250	MDL	mg/Kg	<u>D</u>	08/23/22 15:10 08/23/22 15:10 08/23/22 15:10	08/25/22 03:23 08/25/22 03:23 08/25/22 03:23	Dil Fa
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <250 16000 <250 %Recovery	Qualifier U Qualifier	250 250 250 <i>Limits</i>	MDL	mg/Kg	<u>D</u>	08/23/22 15:10 08/23/22 15:10 08/23/22 15:10 Prepared	08/25/22 03:23 08/25/22 03:23 08/25/22 03:23 Analyzed	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <250 16000 <250	Qualifier U Qualifier S1-	250 250 250 Limits 70 - 130	MDL	mg/Kg	<u>D</u>	08/23/22 15:10 08/23/22 15:10 08/23/22 15:10 Prepared 08/23/22 15:10	08/25/22 03:23 08/25/22 03:23 08/25/22 03:23 Analyzed 08/25/22 03:23	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <250 16000 <250 %Recovery 69 101	Qualifier U Qualifier S1-	250 250 250 Limits 70 - 130		mg/Kg	<u>D</u>	08/23/22 15:10 08/23/22 15:10 08/23/22 15:10 Prepared 08/23/22 15:10	08/25/22 03:23 08/25/22 03:23 08/25/22 03:23 Analyzed 08/25/22 03:23	Dil Fa

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 890-2791-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2791-1	SW-72 (0-4.5')	104	92	
890-2791-2	BH-190 (4.5')	93	101	
890-2791-2 MS	BH-190 (4.5')	94	109	
890-2791-2 MSD	BH-190 (4.5')	93	108	
890-2791-3	BH-191 (4.5')	88	103	
890-2791-4	BH-192 (4.5)	91	103	
890-2791-5	BH-193 (4.5')	96	85	
LCS 880-33466/1-A	Lab Control Sample	94	99	
LCSD 880-33466/2-A	Lab Control Sample Dup	96	101	
MB 880-33466/5-A	Method Blank	78	116	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2791-1	SW-72 (0-4.5')	112	105	
890-2791-2	BH-190 (4.5')	113	113	
890-2791-3	BH-191 (4.5')	104	96	
890-2791-4	BH-192 (4.5)	101	95	
890-2791-5	BH-193 (4.5')	69 S1-	101	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Tetra Tech, Inc. Job ID: 890-2791-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-33466/5-A

Matrix: Solid

Analysis Batch: 33557

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33466

ı		MB	MB							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	<0.00200	U	0.00200		mg/Kg		08/31/22 14:40	09/01/22 18:00	1
	Toluene	<0.00200	U	0.00200		mg/Kg		08/31/22 14:40	09/01/22 18:00	1
	Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/31/22 14:40	09/01/22 18:00	1
I	m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/31/22 14:40	09/01/22 18:00	1
	o-Xylene	<0.00200	U	0.00200		mg/Kg		08/31/22 14:40	09/01/22 18:00	1
	Xylenes, Total	< 0.00400	U	0.00400		mg/Kg		08/31/22 14:40	09/01/22 18:00	1
ı										

мв мв

MD MD

Surrogate	%Recovery Qualif	ier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78	70 - 130	08/31/22 14:40	09/01/22 18:00	1
1,4-Difluorobenzene (Surr)	116	70 - 130	08/31/22 14:40	09/01/22 18:00	1

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 880-33466/1-A

Matrix: Solid

Analysis Batch: 33557

Prep Type: Total/NA

Prep Batch: 33466

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1098		mg/Kg		110	70 - 130	
Toluene	0.100	0.1103		mg/Kg		110	70 - 130	
Ethylbenzene	0.100	0.1076		mg/Kg		108	70 - 130	
m-Xylene & p-Xylene	0.200	0.1975		mg/Kg		99	70 - 130	
o-Xylene	0.100	0.1037		mg/Kg		104	70 - 130	

LCS LCS

Surrogate	%Recovery Qualific	er Limits
4-Bromofluorobenzene (Surr)	94	70 - 130
1,4-Difluorobenzene (Surr)	99	70 - 130

Lab Sample ID: LCSD 880-33466/2-A

Matrix: Solid

Analysis Batch: 33557

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33466

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1142		mg/Kg		114	70 - 130	4	35	
Toluene	0.100	0.1143		mg/Kg		114	70 - 130	4	35	
Ethylbenzene	0.100	0.1120		mg/Kg		112	70 - 130	4	35	
m-Xylene & p-Xylene	0.200	0.2059		mg/Kg		103	70 - 130	4	35	
o-Xylene	0.100	0.1080		mg/Kg		108	70 - 130	4	35	

LCSD LCSD

Surrogate	%Recovery Qualifie	r Limits
4-Bromofluorobenzene (Surr)	96	70 - 130
1 4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: 890-2791-2 MS

Matrix: Solid

Analysis Batch: 33557

Client Sample ID: BH-190 (4.5') Prep Type: Total/NA

Prep Batch: 33466

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0998	0.09295		mg/Kg		93	70 - 130	
Toluene	<0.00200	U	0.0998	0.06941		mg/Kg		70	70 - 130	

QC Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2791-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2791-2 MS

Matrix: Solid

Analysis Batch: 33557

Client Sample ID: BH-190 (4.5')

Prep Type: Total/NA

Prep Batch: 33466

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Ethylbenzene	<0.00200	U F1	0.0998	0.04751	F1	mg/Kg		48	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.08400	F1	mg/Kg		42	70 - 130
o-Xylene	< 0.00200	U F1	0.0998	0.04484	F1	mg/Kg		45	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 890-2791-2 MSD

Matrix: Solid

Client Sample ID: BH-190 (4.5')

Prep Type: Total/NA

Analysis Batch: 33557

Prep Batch: 33466

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0994	0.09702		mg/Kg		98	70 - 130	4	35
Toluene	<0.00200	U	0.0994	0.07575		mg/Kg		76	70 - 130	9	35
Ethylbenzene	<0.00200	U F1	0.0994	0.05323	F1	mg/Kg		54	70 - 130	11	35
m-Xylene & p-Xylene	<0.00399	U F1	0.199	0.09324	F1	mg/Kg		47	70 - 130	10	35
o-Xylene	<0.00200	U F1	0.0994	0.05060	F1	mg/Kg		51	70 - 130	12	35
I and the second											

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-32736/1-A

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Soluble

Analysis Batch: 32797

		MB	MB							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	<5.00	U	5.00		mg/Kg			08/24/22 12:02	1

Lab Sample ID: LCS 880-32736/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 32797

 Spike
 LCS
 LCS
 LCS
 %Rec

 Analyte
 Added
 Result Qualifier
 Unit
 D
 %Rec
 Limits

 Chloride
 250
 243.9
 mg/Kg
 98
 90 - 110

Lab Sample ID: LCSD 880-32736/3-A

Client Sample ID: Lab Control Sample Dup
Matrix: Solid

Prep Type: Soluble

Analysis Batch: 32797

LCSD LCSD RPD Spike %Rec Added Result Qualifier %Rec Limits RPD Limit Analyte Unit D Chloride 250 243.8 mg/Kg 98 90 - 110 20

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2791-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2791-2 MS Client Sample ID: BH-190 (4.5') **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 32797

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	686		251	919.6		mg/Kg		93	90 - 110	

Lab Sample ID: 890-2791-2 MSD **Client Sample ID: BH-190 (4.5')**

Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 32797

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	686		251	918.4		mg/Kg		93	90 - 110	0	20

QC Association Summary

Client: Tetra Tech, Inc.

Job ID: 890-2791-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC VOA

Prep Batch: 33466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2791-1	SW-72 (0-4.5')	Total/NA	Solid	5035	
890-2791-2	BH-190 (4.5')	Total/NA	Solid	5035	
890-2791-3	BH-191 (4.5')	Total/NA	Solid	5035	
890-2791-4	BH-192 (4.5)	Total/NA	Solid	5035	
890-2791-5	BH-193 (4.5')	Total/NA	Solid	5035	
MB 880-33466/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-33466/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-33466/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2791-2 MS	BH-190 (4.5')	Total/NA	Solid	5035	
890-2791-2 MSD	BH-190 (4.5')	Total/NA	Solid	5035	

Analysis Batch: 33557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2791-1	SW-72 (0-4.5')	Total/NA	Solid	8021B	33466
890-2791-2	BH-190 (4.5')	Total/NA	Solid	8021B	33466
890-2791-3	BH-191 (4.5')	Total/NA	Solid	8021B	33466
890-2791-4	BH-192 (4.5)	Total/NA	Solid	8021B	33466
890-2791-5	BH-193 (4.5')	Total/NA	Solid	8021B	33466
MB 880-33466/5-A	Method Blank	Total/NA	Solid	8021B	33466
LCS 880-33466/1-A	Lab Control Sample	Total/NA	Solid	8021B	33466
LCSD 880-33466/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	33466
890-2791-2 MS	BH-190 (4.5')	Total/NA	Solid	8021B	33466
890-2791-2 MSD	BH-190 (4.5')	Total/NA	Solid	8021B	33466

Analysis Batch: 33637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2791-1	SW-72 (0-4.5')	Total/NA	Solid	Total BTEX	
890-2791-2	BH-190 (4.5')	Total/NA	Solid	Total BTEX	
890-2791-3	BH-191 (4.5')	Total/NA	Solid	Total BTEX	
890-2791-4	BH-192 (4.5)	Total/NA	Solid	Total BTEX	
890-2791-5	BH-193 (4.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 32793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2791-1	SW-72 (0-4.5')	Total/NA	Solid	8015NM Prep	
890-2791-2	BH-190 (4.5')	Total/NA	Solid	8015NM Prep	
890-2791-3	BH-191 (4.5')	Total/NA	Solid	8015NM Prep	
890-2791-4	BH-192 (4.5)	Total/NA	Solid	8015NM Prep	
890-2791-5	BH-193 (4.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 32806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2791-1	SW-72 (0-4.5')	Total/NA	Solid	8015B NM	32793
890-2791-2	BH-190 (4.5')	Total/NA	Solid	8015B NM	32793
890-2791-3	BH-191 (4.5')	Total/NA	Solid	8015B NM	32793
890-2791-4	BH-192 (4.5)	Total/NA	Solid	8015B NM	32793
890-2791-5	BH-193 (4.5')	Total/NA	Solid	8015B NM	32793

QC Association Summary

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-2791-1

SDG: Lea County NM

GC Semi VOA

Analysis Batch: 32998

Lab Sample ID 890-2791-1	Client Sample ID SW-72 (0-4.5')	Prep Type Total/NA	Matrix Solid	Method 8015 NM	Prep Batch
890-2791-2	BH-190 (4.5')	Total/NA	Solid	8015 NM	
890-2791-3	BH-191 (4.5')	Total/NA	Solid	8015 NM	
890-2791-4	BH-192 (4.5)	Total/NA	Solid	8015 NM	
890-2791-5	BH-193 (4.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 32736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2791-1	SW-72 (0-4.5')	Soluble	Solid	DI Leach	
890-2791-2	BH-190 (4.5')	Soluble	Solid	DI Leach	
890-2791-3	BH-191 (4.5')	Soluble	Solid	DI Leach	
890-2791-4	BH-192 (4.5)	Soluble	Solid	DI Leach	
890-2791-5	BH-193 (4.5')	Soluble	Solid	DI Leach	
MB 880-32736/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-32736/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-32736/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2791-2 MS	BH-190 (4.5')	Soluble	Solid	DI Leach	
890-2791-2 MSD	BH-190 (4.5')	Soluble	Solid	DI Leach	

Analysis Batch: 32797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2791-1	SW-72 (0-4.5')	Soluble	Solid	300.0	32736
890-2791-2	BH-190 (4.5')	Soluble	Solid	300.0	32736
890-2791-3	BH-191 (4.5')	Soluble	Solid	300.0	32736
890-2791-4	BH-192 (4.5)	Soluble	Solid	300.0	32736
890-2791-5	BH-193 (4.5')	Soluble	Solid	300.0	32736
MB 880-32736/1-A	Method Blank	Soluble	Solid	300.0	32736
LCS 880-32736/2-A	Lab Control Sample	Soluble	Solid	300.0	32736
LCSD 880-32736/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	32736
890-2791-2 MS	BH-190 (4.5')	Soluble	Solid	300.0	32736
890-2791-2 MSD	BH-190 (4.5')	Soluble	Solid	300.0	32736

Eurofins Carlsbad

Job ID: 890-2791-1 SDG: Lea County NM

Project/Site: Kaiser SWD

Client: Tetra Tech, Inc.

Lab Sample ID: 890-2791-1

Matrix: Solid

Matrix: Solid

Client Sample ID: SW-72 (0-4.5')

Date Collected: 08/19/22 12:00 Date Received: 08/19/22 15:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	33466	08/31/22 14:40	MR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	33557	09/01/22 21:12	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33637	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			32998	08/25/22 16:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32793	08/23/22 15:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/25/22 01:58	SM	EET MID
Soluble	Leach	DI Leach			5,05 g	50 mL	32736	08/23/22 09:11	KS	EET MID
Soluble	Analysis	300.0		1			32797	08/24/22 15:18	SMC	EET MID

Client Sample ID: BH-190 (4.5') Lab Sample ID: 890-2791-2

Date Collected: 08/19/22 12:00

Date Received: 08/19/22 15:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33466	08/31/22 14:40	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33557	09/01/22 18:29	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33637	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			32998	08/25/22 16:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32793	08/23/22 15:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/25/22 08:35	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	32736	08/23/22 09:11	KS	EET MID
Soluble	Analysis	300.0		1			32797	08/24/22 15:25	SMC	EET MID

Client Sample ID: BH-191 (4.5')

Date Collected: 08/19/22 12:00

Date Received: 08/19/22 15:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	33466	08/31/22 14:40	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33557	09/01/22 18:49	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33637	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			32998	08/25/22 16:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32793	08/23/22 15:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/25/22 02:41	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	32736	08/23/22 09:11	KS	EET MID
Soluble	Analysis	300.0		5			32797	08/24/22 15:49	SMC	EET MID

Client Sample ID: BH-192 (4.5)

Date Collected: 08/19/22 12:00

Date Received: 08/19/22 15:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	33466	08/31/22 14:40	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33557	09/01/22 19:09	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33637	09/02/22 11:24	AJ	EET MID

Eurofins Carlsbad

Lab Sample ID: 890-2791-4

Page 15 of 22

Matrix: Solid

Lab Sample ID: 890-2791-3

Matrix: Solid

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 890-2791-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-192 (4.5)

Date Collected: 08/19/22 12:00 Date Received: 08/19/22 15:48 Lab Sample ID: 890-2791-4

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			32998	08/25/22 16:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32793	08/23/22 15:10	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/25/22 03:02	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	32736	08/23/22 09:11	KS	EET MID
Soluble	Analysis	300.0		1			32797	08/24/22 15:57	SMC	EET MID

Client Sample ID: BH-193 (4.5') Lab Sample ID: 890-2791-5

Date Collected: 08/19/22 12:00

Date Received: 08/19/22 15:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	33466	08/31/22 14:40	MR	EET MID
Total/NA	Analysis	8021B		25	5 mL	5 mL	33557	09/01/22 21:32	EL	EET MID
Total/NA	Analysis	Total BTEX		1			33637	09/02/22 11:24	AJ	EET MID
Total/NA	Analysis	8015 NM		1			32998	08/25/22 16:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32793	08/23/22 15:10	DM	EET MID
Total/NA	Analysis	8015B NM		5			32806	08/25/22 03:23	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	32736	08/23/22 09:11	KS	EET MID
Soluble	Analysis	300.0		5			32797	08/24/22 16:20	SMC	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Job ID: 890-2791-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date 06-30-23	
Texas	NE	ELAP	T104704400-22-24		
The following analytes	are included in this report by	it the laboratory is not cortifi	ad by the gayerning outbority. This list ma	arrimalizada amaliztaa farri	
the agency does not of	• •	it the laboratory is not certifi	ed by the governing authority. This list ma	ay include arialytes for t	
,	• •	Matrix	ed by the governing authority. This list ma	ay include analytes for t	
the agency does not of	fer certification.	•	, , ,	ay include analytes for v	

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Method Summary

Client: Tetra Tech, Inc.

Job ID: 890-2791-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

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Sample Summary

Client: Tetra Tech, Inc.

Job ID: 890-2791-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-2791-1	SW-72 (0-4.5')	Solid	08/19/22 12:00	08/19/22 15:48
890-2791-2	BH-190 (4.5')	Solid	08/19/22 12:00	08/19/22 15:48
890-2791-3	BH-191 (4.5')	Solid	08/19/22 12:00	08/19/22 15:48
890-2791-4	BH-192 (4.5)	Solid	08/19/22 12:00	08/19/22 15:48
890-2791-5	BH-193 (4.5')	Solid	08/19/22 12:00	08/19/22 15:48

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890-2791 Chain of Custody

Analysis R	lequest of Chain of Custody Record																		F	⊃age	,		01	'	
TŁ	Tetra Tech, Inc.				Midlar Tel (Vall Street nd,Texas (432) 682 (432) 682	79705 -4559)										-							
Client Name:	Permian Water Solution	Site Manager	Clair	- 1	101	nza	RIPS	5											UES	-					
Project Name:	Voices CLD									-	١.	1 1	(Ci	rcle	or	Sp	ecif	y M	leth	od	No.)			
Project Locatio		Project#:							1.60	m	1		1	11											
(county, state)	Lea County, NM	7	-12C	- M	D-	07	273	30													;	(i)			
Invoice to:	Permian Water Solution	s-Du	574	ME	1	to	w.f	ç				(S)		, 무								jed i			
Receiving Labo	ratory: Eurofins Xenco	Sampler Sign	ature: Vo	yto		(3)	ive	/			1	30 - M	A S	b Se								e attac		$ \ $	
Comments:	DON'T THE PARTY OF		4.1	7910							82608	0-0	d C	d Cr			1 Pear	82/0C/625	Ш		SS	ry (se			
							ESERVA	70/5			EX 8	E S	Ra	Ba C	,	2	3 / 624	9210	П		Sulfate TDS	noe		$ \ $	
	1		PLING	MATE	SIX		METHO		ERS	(N)	8 BT	(GR)	An As	Ag A	SS	Olatil	8260	, voi.	1	íso	Sulfate	Ball C		11	
LAB#	SAMPLE IDENTIFICATION	YEAR: 2020		~					AN	SED (8021B	015M	270C	Aetais	/olatile		Vol.	8082	1	ăi l	9	Cation			
(LAB USE ONLY)	DATE	TIME	WATER		HCL	빙	None	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 82	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 82700 Total Metak	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	RC.	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. PCB's 8082 / 608	NORM	PLM (Asbestos) Chloride	Chloric	General Water Chemistry (see attached list) Anion/Cation Balance			Hold
	6W-72(0-4.5')	8/19/22		X			_	X			N	X			T		Ĭ			X					
	13H-190 (4.5")	8/19/22		X			l l	X			Ý.	X								X	4	Ш		Ц	
	BH-191 (4.5')	8/19/22		X				X.			X	K			\perp		Ц	\perp	\sqcup	TX		Ш		Ш	_
	BH-195 (4.5)	8/19/22		X				X			X	M		\sqcup				\perp	Ц	下	Ц	Ш	4	Ш	_
	BH-193 (4.5")	8/19/27		K			1	4		_	X	74	_	H	+	_	H	+	4	大	-	+	+	\vdash	_
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Received by OCD: 8/28/2023 2:02:22 PM

Login Sample Receipt Checklist

Client: Tetra Tech, Inc. Job Number: 890-2791-1

SDG Number: Lea County NM

List Source: Eurofins Carlsbad Login Number: 2791 List Number: 1

Creator: Stutzman, Amanda

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

<6mm (1/4").

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2791-1 SDG Number: Lea County NM

List Source: Eurofins Midland

List Creation: 08/23/22 10:32 AM

Login Number: 2791 List Number: 2

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or ampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	True	
here are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
ppropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is 6mm (1/4").	N/A	

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Released to Imaging: 9/1/2023 2:55:43 PM

Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-3009-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Kaiser SWD

For:

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Clair Gonzales

RAMER

Authorized for release by: 10/1/2022 7:08:10 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-3009-1

SDG: Lea County NM

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Definitions/Glossary

Job ID: 890-3009-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Qualifiers

GC VOA

Qualifier **Qualifier Description**

S1+ Surrogate recovery exceeds control limits, high biased. U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

*1 LCS/LCSD RPD exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Carlsbad

Case Narrative

Job ID: 890-3009-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Job ID: 890-3009-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3009-1

Receipt

The samples were received on 9/20/2022 10:22 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCSD 880-35620/2-A) and (880-19424-A-41-E MS). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-35018 and analytical batch 880-35120 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Matrix: Solid

Lab Sample ID: 890-3009-1

Client: Tetra Tech, Inc.

Job ID: 890-3009-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-185 (13')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 13:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 13:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 13:44	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/28/22 14:52	10/01/22 13:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 13:44	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/28/22 14:52	10/01/22 13:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				09/28/22 14:52	10/01/22 13:44	1
1,4-Difluorobenzene (Surr)	91		70 - 130				09/28/22 14:52	10/01/22 13:44	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/01/22 19:44	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
								Allaryzea	Dii Fac
Total TPH	<50.0	U	50.0		mg/Kg		·	09/23/22 16:01	
- -			50.0		mg/Kg		<u> </u>		
- -	ge Organics (D		50.0 RL	MDL	mg/Kg Unit		Prepared		1
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC) Qualifier		MDL		<u>D</u>	Prepared 09/21/22 08:32	09/23/22 16:01	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier U *1	RL	MDL	Unit	<u>D</u>	<u>·</u>	09/23/22 16:01 Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D Result <50.0	RO) (GC) Qualifier U*1	RL	MDL	Unit mg/Kg	<u>D</u>	09/21/22 08:32	09/23/22 16:01 Analyzed 09/23/22 04:27	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <50.0	RO) (GC) Qualifier U *1 U	RL 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	09/21/22 08:32 09/21/22 08:32	09/23/22 16:01 Analyzed 09/23/22 04:27 09/23/22 04:27	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D Result <50.0 <50.0	RO) (GC) Qualifier U *1 U	RL 50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	09/21/22 08:32 09/21/22 08:32 09/21/22 08:32	09/23/22 16:01 Analyzed 09/23/22 04:27 09/23/22 04:27 09/23/22 04:27	Dil Face 1 1 1 Dil Face
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	ge Organics (D Result <50.0 <50.0 <50.0	RO) (GC) Qualifier U *1 U	RL 50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	09/21/22 08:32 09/21/22 08:32 09/21/22 08:32 Prepared	09/23/22 16:01 Analyzed 09/23/22 04:27 09/23/22 04:27 09/23/22 04:27 Analyzed	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	ge Organics (D) Result <50.0 <50.0 <50.0 <80.0 <80.0 *Recovery 121 111	RO) (GC) Qualifier U*1 U Qualifier	RL 50.0 50.0 50.0 50.0 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	09/21/22 08:32 09/21/22 08:32 09/21/22 08:32 Prepared 09/21/22 08:32	09/23/22 16:01 Analyzed 09/23/22 04:27 09/23/22 04:27 Analyzed 09/23/22 04:27	Dil Face 1 Dil Face 1
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	ge Organics (D Result <50.0 <50.0 <50.0 **Recovery 121 111 romatography -	RO) (GC) Qualifier U*1 U Qualifier	RL 50.0 50.0 50.0 50.0 Limits 70 - 130		Unit mg/Kg mg/Kg	<u>D</u>	09/21/22 08:32 09/21/22 08:32 09/21/22 08:32 Prepared 09/21/22 08:32	09/23/22 16:01 Analyzed 09/23/22 04:27 09/23/22 04:27 Analyzed 09/23/22 04:27	Dil Fac

Client Sample ID: BH-186 (13')

Date Collected: 09/19/22 00:00

Date Received: 09/20/22 10:22

Sample Depth: 13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 14:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 14:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 14:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/28/22 14:52	10/01/22 14:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 14:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/28/22 14:52	10/01/22 14:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				09/28/22 14:52	10/01/22 14:04	1

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Lab Sample ID: 890-3009-2

Matrix: Solid

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Matrix: Solid

Lab Sample ID: 890-3009-2

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-3009-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-186 (13')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 13

Analyte

Chloride

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	90		70 - 130				09/28/22 14:52	10/01/22 14:04	1
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			10/01/22 19:44	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	84.3		49.9		mg/Kg			09/23/22 16:01	1
Method: 8015B NM - Diesel Ranç	ge Organics (DI	RO) (GC) Qualifier	49.9	MDL	mg/Kg	<u>D</u>	Prepared	09/23/22 16:01 Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (DI	Qualifier		MDL		<u>D</u>	Prepared 09/21/22 08:32		Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (DI Result	Qualifier	RL	MDL	Unit	<u> </u>	<u> </u>	Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (DI Result <49.9	Qualifier U *1	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	09/21/22 08:32	Analyzed 09/23/22 04:06	1 Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (DI Result <49.9	Qualifier U *1	RL 49.9	MDL	Unit mg/Kg mg/Kg	<u> </u>	09/21/22 08:32 09/21/22 08:32	Analyzed 09/23/22 04:06 09/23/22 04:06	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (DI Result <49.9 84.3 <49.9	Qualifier U *1	RL 49.9 49.9 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	09/21/22 08:32 09/21/22 08:32 09/21/22 08:32	Analyzed 09/23/22 04:06 09/23/22 04:06 09/23/22 04:06	1 1

25.1

MDL Unit

mg/Kg

Prepared

Analyzed

09/23/22 22:58

Result Qualifier

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Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-3009-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-19424-A-41-E MS	Matrix Spike	131 S1+	108	
880-19424-A-41-F MSD	Matrix Spike Duplicate	136 S1+	109	
890-3009-1	BH-185 (13')	125	91	
890-3009-2	BH-186 (13')	117	90	
LCS 880-35620/1-A	Lab Control Sample	127	104	
LCSD 880-35620/2-A	Lab Control Sample Dup	140 S1+	106	
MB 880-35620/5-A	Method Blank	107	86	
MB 880-35630/5-A	Method Blank	101	89	

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-19424-A-53-C MS	Matrix Spike	85	76	
880-19424-A-53-D MSD	Matrix Spike Duplicate	82	74	
890-3009-1	BH-185 (13')	121	111	
890-3009-2	BH-186 (13')	104	94	
LCS 880-35018/2-A	Lab Control Sample	113	105	
LCSD 880-35018/3-A	Lab Control Sample Dup	98	86	
MB 880-35018/1-A	Method Blank	105	103	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-3009-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-35620/5-A

Matrix: Solid

Analysis Batch: 35744

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35620

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 07:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 07:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 07:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/28/22 14:52	10/01/22 07:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 07:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/28/22 14:52	10/01/22 07:33	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepare	₽d	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	09/28/22 1	4:52	10/01/22 07:33	1
1,4-Difluorobenzene (Surr)	86		70 - 130	09/28/22 1	4:52	10/01/22 07:33	1

Lab Sample ID: LCS 880-35620/1-A

Matrix: Solid

Analysis Batch: 35744

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 35620

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09300 mg/Kg 93 70 - 130 Toluene 0.100 0.08450 mg/Kg 85 70 - 130 0.100 0.09159 92 Ethylbenzene mg/Kg 70 - 130 0.200 0.1871 94 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.1192 70 - 130 o-Xylene mg/Kg 119

LCS LCS

Surrogate	%Recovery (Qualifier	Limits
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-35620/2-A

Matrix: Solid

Analysis Batch: 35744

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35620

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.08642		mg/Kg		86	70 - 130	7	35	
Toluene	0.100	0.08244		mg/Kg		82	70 - 130	2	35	
Ethylbenzene	0.100	0.09331		mg/Kg		93	70 - 130	2	35	
m-Xylene & p-Xylene	0.200	0.1962		mg/Kg		98	70 - 130	5	35	
o-Xylene	0.100	0.1206		mg/Kg		121	70 - 130	1	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130
1 4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-19424-A-41-E MS

Matrix: Solid

Analysis Batch: 35744

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 35620

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.101	0.09638		mg/Kg		96	70 - 130	
Toluene	<0.00201	U	0.101	0.08691		mg/Kg		86	70 - 130	

Eurofins Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-3009-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-19424-A-41-E MS

Matrix: Solid

Analysis Batch: 35744

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 35620

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00201	U	0.101	0.09656		mg/Kg		96	70 - 130	
m-Xylene & p-Xylene	<0.00402	U	0.202	0.1955		mg/Kg		97	70 - 130	
o-Xylene	<0.00201	U	0.101	0.1131		mg/Kg		112	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 880-19424-A-41-F MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA

 Matrix: Solid
 Prep Type: Total/NA

 Analysis Batch: 35744
 Prep Batch: 35620

 Sample
 Sample
 Spike
 MSD
 MSD
 %Rec
 RPD

 Analyte
 Result
 Qualifier
 Added
 Result
 Qualifier
 Unit
 D
 %Rec
 Limits
 RPD
 Limit

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.0994	0.1013		mg/Kg		102	70 - 130	5	35
Toluene	<0.00201	U	0.0994	0.09069		mg/Kg		91	70 - 130	4	35
Ethylbenzene	<0.00201	U	0.0994	0.1024		mg/Kg		103	70 - 130	6	35
m-Xylene & p-Xylene	<0.00402	U	0.199	0.2076		mg/Kg		104	70 - 130	6	35
o-Xylene	<0.00201	U	0.0994	0.1207		mg/Kg		121	70 - 130	6	35

١		MSD	MSD	
	Surrogate	%Recovery	Qualifier	Limits
	4-Bromofluorobenzene (Surr)	136	S1+	70 - 130
l	1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: MB 880-35630/5-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 35744

Prep Batch: 35630

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:29	09/30/22 20:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:29	09/30/22 20:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:29	09/30/22 20:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/28/22 16:29	09/30/22 20:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:29	09/30/22 20:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/28/22 16:29	09/30/22 20:58	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	09/28/22 16:29	09/30/22 20:58	1
1,4-Difluorobenzene (Surr)	89		70 - 130	09/28/22 16:29	09/30/22 20:58	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-35018/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 35120

MB MB

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 mg/Kg 09/21/22 08:32 09/22/22 19:31 1 (GRO)-C6-C10

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Client: Tetra Tech, Inc. Job ID: 890-3009-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-35018/1-A **Matrix: Solid**

Lab Sample ID: LCS 880-35018/2-A

Matrix: Solid

Analysis Batch: 35120

MB MB

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35018

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		09/21/22 08:32	09/22/22 19:31	1
C10-C28) OII Range Organics (Over C28-C36)	<50.0	П	50.0	mg/Kg		09/21/22 08:32	09/22/22 19:31	1
Christings Organics (Over 020-000)	100.0	Ü	00.0	mg/itg		03/21/22 00:02	03/22/22 10.01	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	09/21/22 08:32	09/22/22 19:31	1
o-Terphenyl	103		70 - 130	09/21/22 08:32	09/22/22 19:31	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35018

Analysis Batch: 35120 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1066 107 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1068 mg/Kg 107 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	113	70 _ 130
o-Terphenyl	105	70 - 130

Lab Sample ID: LCSD 880-35018/3-A

Matrix: Solid

Analysis Batch: 35120

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 35018

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	821.3	*1	mg/Kg		82	70 - 130	26	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	889.0		mg/Kg		89	70 - 130	18	20
C10-C28)									

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 98 70 - 130 o-Terphenyl 86 70 - 130

Lab Sample ID: 880-19424-A-53-C MS

Matrix: Solid

Analysis Batch: 35120

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 35018

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	996	826.0		mg/Kg		83	70 - 130	
Diesel Range Organics (Over	<49.9	U	996	868.7		mg/Kg		87	70 - 130	

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	76		70 - 130

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Job ID: 890-3009-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-19424-A-53-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA Analysis Batch: 35120 Prep Batch: 35018

Sample Sample MSD MSD RPD Spike Analyte Result Qualifier Added Result Qualifier %Rec Limits RPD Limit Unit D Gasoline Range Organics <49.9 U *1 999 786.3 mg/Kg 79 70 - 130 5 20 (GRO)-C6-C10 999 872.5 87 70 - 130Diesel Range Organics (Over <49.9 U mg/Kg n 20

C10-C28)

MSD MSD %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 82 o-Terphenyl 74 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-35023/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 35314

Result Qualifier MDL Analyte RL Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 09/23/22 22:29 mg/Kg

Lab Sample ID: LCS 880-35023/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 35314

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 246.3 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-35023/3-A Client Sample ID: Lab Control Sample Dup

MB MB

Matrix: Solid

Analysis Batch: 35314

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec RPD Limits Limit Chloride 250 247.2 99 90 - 110 mg/Kg 0

Lab Sample ID: 890-3009-1 MS Client Sample ID: BH-185 (13')

Matrix: Solid

Analysis Batch: 35314

Sample Sample Spike MS MS %Rec Qualifier Added Qualifier Analyte Result Result Unit %Rec Limits Chloride 1240 90 - 110 591 1868 mg/Kg 103

Lab Sample ID: 890-3009-1 MSD Client Sample ID: BH-185 (13')

Matrix: Solid

Analysis Batch: 35314

Sample Sample Spike MSD MSD %Rec RPD Qualifier Added Result Result Qualifier %Rec Limits RPD Limit Analyte Unit 1240 Chloride 1873 103 90 - 110 20 591 mg/Kg n

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Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

QC Association Summary

Client: Tetra Tech, Inc.

Job ID: 890-3009-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC VOA

Prep Batch: 35620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3009-1	BH-185 (13')	Total/NA	Solid	5035	
890-3009-2	BH-186 (13')	Total/NA	Solid	5035	
MB 880-35620/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35620/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35620/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-19424-A-41-E MS	Matrix Spike	Total/NA	Solid	5035	
880-19424-A-41-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 35630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-35630/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 35744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3009-1	BH-185 (13')	Total/NA	Solid	8021B	35620
890-3009-2	BH-186 (13')	Total/NA	Solid	8021B	35620
MB 880-35620/5-A	Method Blank	Total/NA	Solid	8021B	35620
MB 880-35630/5-A	Method Blank	Total/NA	Solid	8021B	35630
LCS 880-35620/1-A	Lab Control Sample	Total/NA	Solid	8021B	35620
LCSD 880-35620/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35620
880-19424-A-41-E MS	Matrix Spike	Total/NA	Solid	8021B	35620
880-19424-A-41-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	35620

Analysis Batch: 35877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3009-1	BH-185 (13')	Total/NA	Solid	Total BTEX	
890-3009-2	BH-186 (13')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 35018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3009-1	BH-185 (13')	Total/NA	Solid	8015NM Prep	
890-3009-2	BH-186 (13')	Total/NA	Solid	8015NM Prep	
MB 880-35018/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-35018/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-35018/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-19424-A-53-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-19424-A-53-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 35120

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3009-1	BH-185 (13')	Total/NA	Solid	8015B NM	35018
890-3009-2	BH-186 (13')	Total/NA	Solid	8015B NM	35018
MB 880-35018/1-A	Method Blank	Total/NA	Solid	8015B NM	35018
LCS 880-35018/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35018
LCSD 880-35018/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35018
880-19424-A-53-C MS	Matrix Spike	Total/NA	Solid	8015B NM	35018
880-19424-A-53-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	35018

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QC Association Summary

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-3009-1

SDG: Lea County NM

GC Semi VOA

Analysis Batch: 35298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3009-1	BH-185 (13')	Total/NA	Solid	8015 NM	
890-3009-2	BH-186 (13')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 35023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3009-1	BH-185 (13')	Soluble	Solid	DI Leach	_
890-3009-2	BH-186 (13')	Soluble	Solid	DI Leach	
MB 880-35023/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-35023/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-35023/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3009-1 MS	BH-185 (13')	Soluble	Solid	DI Leach	
890-3009-1 MSD	BH-185 (13')	Soluble	Solid	DI Leach	

Analysis Batch: 35314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3009-1	BH-185 (13')	Soluble	Solid	300.0	35023
890-3009-2	BH-186 (13')	Soluble	Solid	300.0	35023
MB 880-35023/1-A	Method Blank	Soluble	Solid	300.0	35023
LCS 880-35023/2-A	Lab Control Sample	Soluble	Solid	300.0	35023
LCSD 880-35023/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	35023
890-3009-1 MS	BH-185 (13')	Soluble	Solid	300.0	35023
890-3009-1 MSD	BH-185 (13')	Soluble	Solid	300.0	35023

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Client: Tetra Tech, Inc. Job ID: 890-3009-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-185 (13')

Date Received: 09/20/22 10:22

Lab Sample ID: 890-3009-1 Date Collected: 09/19/22 00:00

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35620	09/28/22 14:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35744	10/01/22 13:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35877	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35298	09/23/22 16:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	35018	09/21/22 08:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35120	09/23/22 04:27	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	35023	09/21/22 10:05	SMC	EET MID
Soluble	Analysis	300.0		5			35314	09/23/22 22:44	CH	EET MID

Client Sample ID: BH-186 (13') Lab Sample ID: 890-3009-2

Date Collected: 09/19/22 00:00 Matrix: Solid

Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	35620	09/28/22 14:52	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35744	10/01/22 14:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35877	10/01/22 19:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35298	09/23/22 16:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35018	09/21/22 08:32	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35120	09/23/22 04:06	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	35023	09/21/22 10:05	SMC	EET MIC
Soluble	Analysis	300.0		5			35314	09/23/22 22:58	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Job ID: 890-3009-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority		ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-24	06-30-23
The following analytes	are included in this report, but	it the laboratory is not certific	ed by the governing authority. This list ma	av include analytes fo
the agency does not of	• •	it the laboratory is not certific	su by the governing authority. This list his	ay include analytes to
,	• •	Matrix	Analyte	ay include analytes to
the agency does not of	fer certification.	,	, , ,	ay illicitude allalytes lo

Method Summary

Client: Tetra Tech, Inc.

Job ID: 890-3009-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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BH-186 (13')

Sample Summary

Solid

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Lab Sample ID

890-3009-1

890-3009-2

Job ID: 890-3009-1 SDG: Lea County NM

Client Sample ID	Matrix	Collected	Received	Depth
				Бериі
BH-185 (13')	Solid	09/19/22 00:00	09/20/22 10:22	13

09/19/22 00:00

09/20/22 10:22 13

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Received by OCD: 8/28/2023 2:02:22|PM

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10/1/2022

Analysis R	equest of Chain of Custody Record																						Pa	age			1	of	1
TŁ	Tetra Tech, Inc.			1	901VV VVI Viidiand,T Tei (432	rexa:	s 79705																						
Client Name:	Permian Water Solutions	Site Manager:		Cla	ir Gor	nza	ales						AN	ALY	/SIS					C-		£. 1	flat.	ha	4 M	- 1			
Project Name:	Kaiser SWD		Clair.Gon	zales	s@tet	trat	tech.	com	1				1	ı	11	10	JITC 	le l	or 	Spi 	eci	fy N	net 	1		0.)	11	1	1
Project Location (county, state)	Lea County, NM	Project #:																		st)	П								
invoice to:	Permian Water Solutions - Dusty McInturff													(RO)		윤	B P								Chloride Sulfate TDS	ached li			
Receiving Labo	ratory: Eurofins Xenco	Sampler Signa	ature:	I	Peyto	n C	Olive	r					_	RO-A		Pb Se	Pb Se				5					see aft			
Comments:													82608	ORO-C	PAH 8270C	CQ C	CLP Metals Ag As Ba Cd Cr Pb Se Hg			324	GC/MS Semi. Vol. 8270C/625				TDS	nistry (s			
		SAMP	LING	MA	TRIX		PRES	ERVA"			RS	(N	BTEX	GRO-1		g As Ba	Ag As B	latiles		GC/MS Vol. 8260B / 624	Vol. 82	809	(S)		ulfate	General Water Chemi			
LAB#	SAMPLE IDENTIFICATION	YEAR: 2020		~							TAINE	SED (Y	BTEX 8021B BTEX 82 IPH TX1005 (Ext to C35)		270C	fotal Metals Ag As Ba Cd Cr Pb Se Hg	CLP Metals A	ICLP Semi Volatiles		Vol. 8	Semi	8082/	spesto	0	e S	al Wate			
(LAB USE)		DATE	TIME	WATER	SOIL	된	HNO	E SE	200		# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	PH 8	PAH 8	Total M	TCLP	TCLPS	RCI	GC/MS	GC/MS	PCB's 8082/608	PLM (Asbestos)	Chloride	Chloric	General Anion/			Hold
	вн-185 (13')	9/19/2022			X			x		I			x	Х									I	х					
	вн-186 (13')	9/19/2022)	X			x	\perp	1	_		X	X		1		1		Ц		1	1	Х		+	\perp	+	
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		ORIGINAL	COPT																										

Login Sample Receipt Checklist

Client: Tetra Tech, Inc. Job Number: 890-3009-1

SDG Number: Lea County NM

Login Number: 3009 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Eurofins Carlsbad

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Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-3009-1 SDG Number: Lea County NM

List Source: Eurofins Midland

List Creation: 09/21/22 11:23 AM

List Number: 2 Creator: Rodriguez, Leticia

Login Number: 3009

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

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<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-3010-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Kaiser SWD

For:

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Clair Gonzales

RAMER

Authorized for release by: 10/3/2022 6:53:25 PM

Jessica Kramer, Project Manager (432)704-5440

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-3010-1

SDG: Lea County NM

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Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 890-3010-1 Project/Site: Kaiser SWD SDG: Lea County NM

Qualifiers

GC	VOA
Qual	ifier

Qualifier	Qualifier Description
*_	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.

S1+ Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualitier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

LOD

DLC

DL, RA, RE, IN

EDL Estimated Detection Limit (Dioxin) Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE) MCL EPA recommended "Maximum Contaminant Level"

Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

Decision Level Concentration (Radiochemistry)

Method Detection Limit MDL ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit NC

Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Carlsbad

Case Narrative

Client: Tetra Tech, Inc.

Job ID: 890-3010-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Job ID: 890-3010-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3010-1

Receipt

The samples were received on 9/20/2022 10:22 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-35625 and analytical batch 880-35815 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following sample was outside control limits: Trench-1 (10') (890-3010-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-35172 and analytical batch 880-35220 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Matrix: Solid

Lab Sample ID: 890-3010-1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-3010-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: Trench-1 (10')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.201	U *+ *1	0.201		mg/Kg		09/29/22 16:18	10/03/22 18:54	100
Toluene	12.5	*+ *1	0.201		mg/Kg		09/29/22 16:18	10/03/22 18:54	100
Ethylbenzene	23.9	*+ *1	0.201		mg/Kg		09/29/22 16:18	10/03/22 18:54	100
m-Xylene & p-Xylene	35.1	*+ *1	0.402		mg/Kg		09/29/22 16:18	10/03/22 18:54	100
o-Xylene	14.3	*+ *1	0.201		mg/Kg		09/29/22 16:18	10/03/22 18:54	100
Xylenes, Total	49.4	*+ *1	0.402		mg/Kg		09/29/22 16:18	10/03/22 18:54	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	196	S1+	70 - 130				09/29/22 16:18	10/03/22 18:54	100
1,4-Difluorobenzene (Surr)	82		70 - 130				09/29/22 16:18	10/03/22 18:54	100
· Method: Total BTEX - Total BTI	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	85.8		0.402		mg/Kg			10/02/22 08:53	1
Method: 8015 NM - Diesel Rang	no Organice (DP	O) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	4270		49.9		mg/Kg			09/26/22 13:20	1
Method: 8015B NM - Diesel Ra	nge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	936		49.9		mg/Kg		09/22/22 11:26	09/24/22 03:48	1
Diesel Range Organics (Over C10-C28)	2930		49.9		mg/Kg		09/22/22 11:26	09/24/22 03:48	1
Oll Range Organics (Over C28-C36)	404		49.9		mg/Kg		09/22/22 11:26	09/24/22 03:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				09/22/22 11:26	09/24/22 03:48	1
o-Terphenyl	102		70 - 130				09/22/22 11:26	09/24/22 03:48	1
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble							
Analyte	Posult	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Allalyte	ixesuit	Qualifici		MIDE	Oilit		ricparca	Allalyzou	Dii i uc

Client Sample ID: Trench-2 (5')

Date Collected: 09/19/22 00:00

Date Received: 09/20/22 10:22

Sample Depth: 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *-	0.00201		mg/Kg		09/28/22 16:17	10/01/22 21:30	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/28/22 16:17	10/01/22 21:30	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/28/22 16:17	10/01/22 21:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/28/22 16:17	10/01/22 21:30	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/28/22 16:17	10/01/22 21:30	1
Xylenes, Total	< 0.00402	U	0.00402		mg/Kg		09/28/22 16:17	10/01/22 21:30	1

Eurofins Carlsbad

Lab Sample ID: 890-3010-2

Matrix: Solid

Matrix: Solid

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

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Job ID: 890-3010-1

SDG: Lea County NM

Lab Sample ID: 890-3010-2

Client Sample ID: Trench-2 (5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 5

Analyte

Chloride

Released to Imaging: 9/1/2023 2:55:43 PM

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				09/28/22 16:17	10/01/22 21:30	1
1,4-Difluorobenzene (Surr)	104		70 - 130				09/28/22 16:17	10/01/22 21:30	1
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/02/22 08:53	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/26/22 13:20	1
			49.9		mg/Kg			09/26/22 13:20	1
Total TPH	ge Organics (D		49.9 RL	MDL			Prepared	09/26/22 13:20 Analyzed	1 Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier		MDL		<u>D</u>	Prepared 09/22/22 11:26		Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D	RO) (GC) Qualifier	RL	MDL	Unit	<u>D</u>		Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Ranç	ge Organics (Di Result <49.9	RO) (GC) Qualifier U	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	09/22/22 11:26	Analyzed 09/23/22 21:40	Dil Fac 1 1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (Di Result <49.9	RO) (GC) Qualifier U	RL 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	09/22/22 11:26 09/22/22 11:26	Analyzed 09/23/22 21:40 09/23/22 21:40	Dil Fac 1 1 Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D) Result <49.9 <49.9	RO) (GC) Qualifier U	RL 49.9 49.9 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	09/22/22 11:26 09/22/22 11:26 09/22/22 11:26	Analyzed 09/23/22 21:40 09/23/22 21:40 09/23/22 21:40	1 1

50.4

MDL Unit

mg/Kg

Prepared

Analyzed

09/23/22 23:08

Dil Fac

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 890-3010-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limit
		BFB1	DFBZ1	
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
380-19417-A-1-E MS	Matrix Spike	109	105	
380-19417-A-1-F MSD	Matrix Spike Duplicate	112	100	
390-3010-1	Trench-1 (10')	196 S1+	82	
390-3010-2	Trench-2 (5')	116	104	
390-3015-A-1-E MS	Matrix Spike	101	94	
390-3015-A-1-F MSD	Matrix Spike Duplicate	108	107	
_CS 880-35625/1-A	Lab Control Sample	109	100	
_CS 880-35724/1-A	Lab Control Sample	76	73	
_CSD 880-35625/2-A	Lab Control Sample Dup	104	99	
_CSD 880-35724/2-A	Lab Control Sample Dup	128	123	
MB 880-35625/5-A	Method Blank	101	114	
MB 880-35628/5-A	Method Blank	105	105	
MB 880-35692/5-A	Method Blank	99	83	
MB 880-35724/5-A	Method Blank	100	76	
Surrogate Legend				
BFB = 4-Bromofluorobe	nzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3010-1	Trench-1 (10')	110	102	
890-3010-2	Trench-2 (5')	95	103	
890-3010-2 MS	Trench-2 (5')	90	88	
890-3010-2 MSD	Trench-2 (5')	103	99	
LCS 880-35172/2-A	Lab Control Sample	99	105	
LCSD 880-35172/3-A	Lab Control Sample Dup	106	108	
MB 880-35172/1-A	Method Blank	120	139 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-3010-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-35625/5-A

Lab Sample ID: LCS 880-35625/1-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 35815

Analysis Batch: 35815

Matrix: Solid Analysis Batch: 35815 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35625

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:17	10/01/22 20:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:17	10/01/22 20:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:17	10/01/22 20:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/28/22 16:17	10/01/22 20:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:17	10/01/22 20:00	1
Xylenes, Total	< 0.00400	U	0.00400		mg/Kg		09/28/22 16:17	10/01/22 20:00	1

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	09.	/28/22 16:17	10/01/22 20:00	1
1,4-Difluorobenzene (Surr)	114		70 - 130	09.	/28/22 16:17	10/01/22 20:00	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35625

Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.06312 mg/Kg 63 70 - 130 Toluene 0.100 0.07231 mg/Kg 72 70 - 130 0.100 0.07030 70 Ethylbenzene mg/Kg 70 - 130 0.200 74 70 - 130 m-Xylene & p-Xylene 0.1471 mg/Kg 0.100 0.07531 70 - 130 o-Xylene mg/Kg 75

LCS LCS

Surrogate	%Recovery Quality	fier Limits
4-Bromofluorobenzene (Surr)	109	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35625

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.06587	*_	mg/Kg		66	70 - 130	4	35
Toluene	0.100	0.07114		mg/Kg		71	70 - 130	2	35
Ethylbenzene	0.100	0.07179		mg/Kg		72	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1452		mg/Kg		73	70 - 130	1	35
o-Xylene	0.100	0.07431		mg/Kg		74	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery Qual	ifier Limits
4-Bromofluorobenzene (Surr)	104	70 - 130
1,4-Difluorobenzene (Surr)	99	70 - 130

Lab Sample ID: 880-19417-A-1-E MS

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Lab Sample ID: LCSD 880-35625/2-A

Matrix: Solid

Analysis Batch: 35815

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 35625

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U *-	0.101	0.09573		mg/Kg		95	70 - 130	
Toluene	<0.00201	U	0.101	0.09812		mg/Kg		98	70 - 130	

Client: Tetra Tech, Inc. Job ID: 890-3010-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-19417-A-1-E MS

Matrix: Solid

Analysis Batch: 35815

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 35625

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00201	U	0.101	0.08958		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene	<0.00402	U	0.201	0.1802		mg/Kg		90	70 - 130	
o-Xylene	< 0.00201	U	0.101	0.09000		mg/Kg		89	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 35625

Lab Sample ID: 880-19417-A-1-F MSD **Matrix: Solid**

Analysis Batch: 35815

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U *-	0.0990	0.09175		mg/Kg		93	70 - 130	4	35
Toluene	<0.00201	U	0.0990	0.1021		mg/Kg		103	70 - 130	4	35
Ethylbenzene	<0.00201	U	0.0990	0.1028		mg/Kg		104	70 - 130	14	35
m-Xylene & p-Xylene	<0.00402	U	0.198	0.2097		mg/Kg		106	70 - 130	15	35
o-Xylene	<0.00201	U	0.0990	0.1043		mg/Kg		105	70 - 130	15	35

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	112	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: MB 880-35628/5-A

Matrix: Solid

Xylenes, Total

Analysis Batch: 35815

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 35628

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:25	10/01/22 06:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:25	10/01/22 06:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:25	10/01/22 06:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/28/22 16:25	10/01/22 06:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:25	10/01/22 06:46	1

0.00400

MB MB

мв мв

<0.00400 U

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	09/28/22 16:25	10/01/22 06:46	1
1,4-Difluorobenzene (Surr)	105		70 - 130	09/28/22 16:25	10/01/22 06:46	1

Lab Sample ID: MB 880-35692/5-A

Matrix: Solid

Analyte

Benzene

Analysis Batch: 35890

Client Sample ID: Method Blank

10/01/22 06:46

09/28/22 16:25

Prep Type: Total/NA

Prep Batch: 35692

Result Qualifier MDL Unit Prepared Analyzed Dil Fac RL <0.00200 U 0.00200 09/29/22 11:56 10/02/22 22:18 mg/Kg 09/29/22 11:56 0.00200 mg/Kg 10/02/22 22:18

mg/Kg

Toluene <0.00200 U Ethylbenzene <0.00200 U 0.00200 mg/Kg 09/29/22 11:56 10/02/22 22:18 <0.00400 U 0.00400 09/29/22 11:56 10/02/22 22:18 m-Xylene & p-Xylene mg/Kg

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-3010-1 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-35692/5-A

Matrix: Solid

Analysis Batch: 35890

Client Sample	ID:	Method	Blank
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Prep Type: Total/NA

Prep Batch: 35692

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/29/22 11:56	10/02/22 22:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/29/22 11:56	10/02/22 22:18	1

MP MP

MB MB

	IVID IVID				
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99	70 - 130	09/29/22 11:56	10/02/22 22:18	1
1,4-Difluorobenzene (Surr)	83	70 - 130	09/29/22 11:56	10/02/22 22:18	1

Client Sample ID: Method Blank

Prep Type: Total/NA

10/03/22 08:58

Prep Batch: 35724

Matrix: Solid

Lab Sample ID: MB 880-35724/5-A

Analysis Batch: 35890

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/29/22 16:18	10/03/22 08:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/29/22 16:18	10/03/22 08:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/29/22 16:18	10/03/22 08:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/29/22 16:18	10/03/22 08:58	1
o-Xylene	< 0.00200	U	0.00200		mg/Kg		09/29/22 16:18	10/03/22 08:58	1

0.00400

mg/Kg

мв мв

<0.00400 U

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100	70 - 130	09/29/22 16:18	10/03/22 08:58	1
1,4-Difluorobenzene (Surr)	76	70 - 130	09/29/22 16:18	10/03/22 08:58	1

Lab Sample ID: LCS 880-35724/1-A

Matrix: Solid

Xylenes, Total

Analysis Batch: 35890

Client Sample ID: Lab Control Samp	le
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09/29/22 16:18

Prep Type: Total/NA

Prep Batch: 35724

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07829		mg/Kg		78	70 - 130	
Toluene	0.100	0.08089		mg/Kg		81	70 - 130	
Ethylbenzene	0.100	0.07734		mg/Kg		77	70 - 130	
m-Xylene & p-Xylene	0.200	0.1621		mg/Kg		81	70 - 130	
o-Xylene	0.100	0.08300		mg/Kg		83	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	76	70 - 130
1,4-Difluorobenzene (Surr)	73	70 - 130

Lab Sample ID: LCSD 880-35724/2-A

Matrix: Solid

Analysis Batch: 35890

Client Sample ID: Lab Control Samp	In Dun

Prep Type: Total/NA

Prep Batch: 35724

	Spike	LCSD	LCSD				%Rec		RPD
	•				_	0/ 5			
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1318	*+ *1	mg/Kg		132	70 - 130	51	35
Toluene	0.100	0.1408	*+ *1	mg/Kg		141	70 - 130	54	35
Ethylbenzene	0.100	0.1312	*+ *1	mg/Kg		131	70 - 130	52	35
m-Xylene & p-Xylene	0.200	0.2759	*+ *1	mg/Kg		138	70 - 130	52	35
o-Xylene	0.100	0.1422	*+ *1	mg/Kg		142	70 - 130	53	35

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-3010-1 SDG: Lea County NM

Prep Batch: 35724

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	123		70 - 130

Lab Sample ID: 890-3015-A-1-E MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 35890

l		Sample	Sample	Spike	MS	MS				%Rec	
l	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
l	Benzene	<0.00200	U *+ *1	0.0998	0.09073		mg/Kg		91	70 - 130	
	Toluene	<0.00200	U *+ *1	0.0998	0.09593		mg/Kg		96	70 - 130	
	Ethylbenzene	<0.00200	U *+ *1	0.0998	0.08487		mg/Kg		85	70 - 130	
	m-Xylene & p-Xylene	<0.00401	U *+ *1	0.200	0.1756		mg/Kg		88	70 - 130	
	o-Xylene	<0.00200	U *+ *1	0.0998	0.09418		mg/Kg		94	70 - 130	
н											

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 890-3015-A-1-F MSD

Matrix: Solid

Analysis Batch: 35890

Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Prep Batch: 35724

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U *+ *1	0.0990	0.09916		mg/Kg		100	70 - 130	9	35
Toluene	<0.00200	U *+ *1	0.0990	0.1009		mg/Kg		102	70 - 130	5	35
Ethylbenzene	<0.00200	U *+ *1	0.0990	0.08894		mg/Kg		90	70 - 130	5	35
m-Xylene & p-Xylene	<0.00401	U *+ *1	0.198	0.1820		mg/Kg		92	70 - 130	4	35
o-Xylene	<0.00200	U *+ *1	0.0990	0.09773		mg/Kg		99	70 - 130	4	35

MSD MSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 70 - 130 108 1,4-Difluorobenzene (Surr) 107

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-35172/1-A

Matrix: Solid

Analysis Batch: 35220

Client Sample ID: Method Blank
Prep Type: Total/NA
Duan Bataki 25470

Prep Batch: 35172

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/22/22 11:26	09/23/22 20:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/22/22 11:26	09/23/22 20:35	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/22/22 11:26	09/23/22 20:35	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120	70 - 130	09/22/22 11:26	09/23/22 20:35	1
o-Terphenyl	139 S1+	70 - 130	09/22/22 11:26	09/23/22 20:35	1

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-3010-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-35172/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 35220 Prep Batch: 35172

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	960.3		mg/Kg	_	96	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	891.9		mg/Kg		89	70 - 130	
C10-C28)								

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: LCSD 880-35172/3-A **Client Sample ID: Lab Control Sample Dup** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 35220

-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	 1000	960.5		mg/Kg		96	70 - 130	0	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	951.2		mg/Kg		95	70 - 130	6	20
C10-C28)									

LCSD LCSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 106 70 - 130 o-Terphenyl 108 70 - 130

Lab Sample ID: 890-3010-2 MS Client Sample ID: Trench-2 (5') **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 35220									Pre	p Batch: 35172
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	887.9		mg/Kg		87	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	996	998.1		mg/Kg		100	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 90 70 - 130 88 70 - 130 o-Terphenyl

Lab Sample ID: 890-3010-2 MSD Client Sample ID: Trench-2 (5') **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 35220									Prep	Batch:	35172
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1050		mg/Kg		103	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1135		mg/Kg		114	70 - 130	13	20

MSD MSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 103

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Prep Batch: 35172

RL

5.00

Spike

Added

250

Spike

Added

250

Spike

Added

1240

MDL Unit

LCS LCS

LCSD LCSD

MS MS

Qualifier

Result Qualifier

246.3

247.2

Result

1868

Result Qualifier

mg/Kg

Unit

Unit

Unit

mg/Kg

mg/Kg

mg/Kg

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Prepared

%Rec

%Rec

%Rec

103

99

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-3010-1 SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-3010-2 MSD

Matrix: Solid

Analysis Batch: 35220

Client Sample ID: Trench-2 (5')

Client Sample ID: Method Blank

Analyzed

09/23/22 22:29

Client Sample ID: Lab Control Sample

%Rec

Limits

Client Sample ID: Lab Control Sample Dup

90 - 110

%Rec

Limits

90 - 110

%Rec

Limits

Client Sample ID: Matrix Spike Duplicate

%Rec

90 - 110

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 35172

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

RPD

Prep Type: Soluble

Prep Type: Soluble

MSD MSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-35023/1-A

Matrix: Solid

Analysis Batch: 35314

MB MB

Result Qualifier

Analyte

U

Chloride <5.00

Lab Sample ID: LCS 880-35023/2-A

Matrix: Solid

Analysis Batch: 35314

Analyte

Chloride

Lab Sample ID: LCSD 880-35023/3-A

Matrix: Solid

Analysis Batch: 35314

Analyte

Chloride

Lab Sample ID: 890-3009-A-1-C MS

Matrix: Solid

Analysis Batch: 35314

Analyte

Lab Sample ID: 890-3009-A-1-D MSD

Matrix: Solid

Chloride

Analysis Batch: 35314

Sample Sample Result Qualifier Analyte Chloride

Spike Added 1240 591

Sample Sample

Result

591

Qualifier

Result 1873

MSD MSD Qualifier

Unit mg/Kg

%Rec 103

Limits RPD 90 - 110

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Dil Fac

RPD

Limit

RPD

Limit

20

QC Association Summary

Client: Tetra Tech, Inc.

Job ID: 890-3010-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC VOA

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3010-2	Trench-2 (5')	Total/NA	Solid	5035	
MB 880-35625/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35625/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35625/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-19417-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-19417-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 35628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-35628/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 35692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-35692/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 35724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3010-1	Trench-1 (10')	Total/NA	Solid	5035	
MB 880-35724/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35724/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35724/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3015-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-3015-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 35815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3010-2	Trench-2 (5')	Total/NA	Solid	8021B	35625
MB 880-35625/5-A	Method Blank	Total/NA	Solid	8021B	35625
MB 880-35628/5-A	Method Blank	Total/NA	Solid	8021B	35628
LCS 880-35625/1-A	Lab Control Sample	Total/NA	Solid	8021B	35625
LCSD 880-35625/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35625
880-19417-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	35625
880-19417-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	35625

Analysis Batch: 35881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3010-1	Trench-1 (10')	Total/NA	Solid	Total BTEX	
890-3010-2	Trench-2 (5')	Total/NA	Solid	Total BTEX	

Analysis Batch: 35890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3010-1	Trench-1 (10')	Total/NA	Solid	8021B	35724
MB 880-35692/5-A	Method Blank	Total/NA	Solid	8021B	35692
MB 880-35724/5-A	Method Blank	Total/NA	Solid	8021B	35724
LCS 880-35724/1-A	Lab Control Sample	Total/NA	Solid	8021B	35724
LCSD 880-35724/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35724
890-3015-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	35724
890-3015-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	35724

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QC Association Summary

Client: Tetra Tech, Inc. Job ID: 890-3010-1 Project/Site: Kaiser SWD SDG: Lea County NM

GC Semi VOA

Prep Batch: 35172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3010-1	Trench-1 (10')	Total/NA	Solid	8015NM Prep	
890-3010-2	Trench-2 (5')	Total/NA	Solid	8015NM Prep	
MB 880-35172/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-35172/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-35172/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3010-2 MS	Trench-2 (5')	Total/NA	Solid	8015NM Prep	
890-3010-2 MSD	Trench-2 (5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 35220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3010-1	Trench-1 (10')	Total/NA	Solid	8015B NM	35172
890-3010-2	Trench-2 (5')	Total/NA	Solid	8015B NM	35172
MB 880-35172/1-A	Method Blank	Total/NA	Solid	8015B NM	35172
LCS 880-35172/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35172
LCSD 880-35172/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35172
890-3010-2 MS	Trench-2 (5')	Total/NA	Solid	8015B NM	35172
890-3010-2 MSD	Trench-2 (5')	Total/NA	Solid	8015B NM	35172

Analysis Batch: 35412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3010-1	Trench-1 (10')	Total/NA	Solid	8015 NM	
890-3010-2	Trench-2 (5')	Total/NA	Solid	8015 NM	

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Leach Batch: 35023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3010-1	Trench-1 (10')	Soluble	Solid	DI Leach	
890-3010-2	Trench-2 (5')	Soluble	Solid	DI Leach	
MB 880-35023/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-35023/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-35023/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3009-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3009-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 35314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3010-1	Trench-1 (10')	Soluble	Solid	300.0	35023
890-3010-2	Trench-2 (5')	Soluble	Solid	300.0	35023
MB 880-35023/1-A	Method Blank	Soluble	Solid	300.0	35023
LCS 880-35023/2-A	Lab Control Sample	Soluble	Solid	300.0	35023
LCSD 880-35023/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	35023
890-3009-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	35023
890-3009-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	35023

Client: Tetra Tech, Inc.

Job ID: 890-3010-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: Trench-1 (10')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22 Lab Sample ID: 890-3010-1

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35724	09/29/22 16:18	MNR	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	35890	10/03/22 18:54	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35881	10/02/22 08:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35412	09/26/22 13:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35172	09/22/22 11:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35220	09/24/22 03:48	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	35023	09/21/22 10:05	SMC	EET MID
Soluble	Analysis	300.0		5			35314	09/23/22 23:03	CH	EET MID

Client Sample ID: Trench-2 (5')

Lab Sample ID: 890-3010-2

Date Collected: 09/19/22 00:00

Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35625	09/28/22 16:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35815	10/01/22 21:30	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35881	10/02/22 08:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35412	09/26/22 13:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35172	09/22/22 11:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35220	09/23/22 21:40	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	35023	09/21/22 10:05	SMC	EET MID
Soluble	Analysis	300.0		10			35314	09/23/22 23:08	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Released to Imaging: 9/1/2023 2:55:43 PM

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Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-3010-1

SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority		ogram	Identification Number	Expiration Date
Texas		ELAP	T104704400-22-24	06-30-23
The following analytes	are included in this report, bu	it the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for w
the agency does not of	fer certification.	•	, , ,	.,
the agency does not of Analysis Method	fer certification . Prep Method	Matrix	Analyte	-,,,
9 ,		Matrix Solid	Analyte Total TPH	

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Method Summary

Client: Tetra Tech, Inc.

Job ID: 890-3010-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

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Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-3010-1

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	De
890-3010-1	Trench-1 (10')	Solid	09/19/22 00:00	09/20/22 10:22	10
890-3010-2	Trench-2 (5')	Solid	09/19/22 00:00	09/20/22 10:22	5

Received by OCD: 8/28/2023 2:02:22|PM

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Perman Water Solutions Clair Gonzales Clair Gonzales	Analysis Re	equest of Chain of Custody Record																						Pa	ge			1_	of _	
Clair Manager Permian Water Solutions Kaiser SWD Clair Gonzales Clair Gonzales Clair Gonzales Clair Gonzales ANALYSIS REQUEST (Circle or Specify Method No.) Project Recovering Liberatory Eurofine Xence Permian Water Solutions - Dusty Mointurff Received by: Sampler Signature: PeyCon Oliver Sampler Signature: PeyCon	TŁ	Tetra Tech, Inc.			M	idiand,T Fei (432)	exas) 682	79705 -4559																						
Clair Gonzales@terratech.com Clair Gonzales@terratech.com Project Location Clair Gonzales@terratech.com Project Location Clair Gonzales@terratech.com Clair Gonzales@terrate	Client Name;	Permian Water Solutions	Site Manager:		Clair								Α	NAL	LYS					0		-16		0 - A1		l NL	- \			
Project Locations (county, state) Lea County, NM Project Segment Sequence (county, state) Permian Water Solutions - Dusty McInburff Receiving Laboratory: Eurofins Xenco Samplar Signature: Peyton Oliver Samplar Signature: Sa	Project Name:	Kaiser SWD		Clair.Gon	zales	@tet	rate	ech.c	om						1	1		rci	0	rs	pe 	CIT	у N 	ieti 	100) 		1	1
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Trench-1 (10)	Comments:												8260	35)	- OR	2	S S S				24	/0C/62								
Trench-1 (10)			SAMP	LING	MA	TRIX					RS	(Ž	втех	(Ext to (GRO - I	a a c	Ag As B		olatiles		2608 / 6	Vol. 82	900	©		ulfate	Balanc			
Trench-1 (10)	LAB#	SAMPLE IDENTIFICATION			H.						TAINE	RED (Y	8021B	X1005	015M (3270C	Metals /	Volatile	Semi Vo		S Vol. 8	Semi	2908	Asbesto		de S	Cation			
Trench-2 (5) 9/19/2022 X			DATE	TIME	WAT	3	占	ON L	None Pole		© #	FILTE	BTEX	L H H	THE S	PAH	TCLP	TCLP	TOLP	RC.	GC/M	GCAM	NOR!	PLM (Chlori	Chlori	Anion			Hold
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Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-3010-1

SDG Number: Lea County NM

List Source: Eurofins Carlsbad

Login Number: 3010 List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-3010-1 SDG Number: Lea County NM

List Source: Eurofins Midland

List Creation: 09/21/22 11:23 AM

Creator: Rodriguez, Leticia

Login Number: 3010

List Number: 2

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

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<6mm (1/4").





ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-3011-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Kaiser SWD

For:

eurofins

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Clair Gonzales

RAMER

Authorized for release by: 10/3/2022 6:54:20 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

.....LINKS

Received by OCD: 8/28/2023 2:02:22 PM

Review your project results through EOL

Have a Question?



Visit us at:

www.eurofinsus.com/Env Released to Imaging: 9/1/2023 2:55:43 PM

Results relate only to the items tested and the sample(s) as received by the laboratory.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-3011-1 SDG: Lea County NM

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Definitions/Glossary

Client: Tetra Tech, Inc.

Job ID: 890-3011-1

Project/Site: Kaiser SWD

SDG: Lea County NM

2

Qualifiers

GC VOA

 Qualifier
 Qualifier Description

 * LCS and/or LCSD is outside acceptance limits, low biased.

 *+
 LCS and/or LCSD is outside acceptance limits, high biased.

 *1
 LCS/LCSD RPD exceeds control limits.

 S1 Surrogate recovery exceeds control limits, low biased.

S1+ U

Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected.

GC Semi VOA

 Qualifier
 Qualifier Description

 S1+
 Surrogate recovery exceeds control limits, high biased.

 U
 Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Tetra Tech, Inc.

Job ID: 890-3011-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Job ID: 890-3011-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3011-1

Receipt

The samples were received on 9/20/2022 10:22 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-35621 and analytical batch 880-35814 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-195 (8') (890-3011-12), BH-200 (4.5') (890-3011-17) and BH-201 (4.5') (890-3011-18). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-35625 and analytical batch 880-35815 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following sample was outside control limits: BH-206 (4.5') (890-3011-23). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: BH-205 (4.5') (890-3011-22). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-35103 and analytical batch 880-35007 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW-74 (8-13') (890-3011-28). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-35262 and analytical batch 880-35322 was outside the upper control limits.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-35172 and analytical batch 880-35220 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Lab Sample ID: 890-3011-1

Client: Tetra Tech, Inc.

Job ID: 890-3011-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: H-1 (0-2')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 0 - 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/28/22 14:59	10/01/22 06:49	1
Toluene	< 0.00199	U *-	0.00199		mg/Kg		09/28/22 14:59	10/01/22 06:49	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		09/28/22 14:59	10/01/22 06:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/28/22 14:59	10/01/22 06:49	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		09/28/22 14:59	10/01/22 06:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/28/22 14:59	10/01/22 06:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				09/28/22 14:59	10/01/22 06:49	1
1,4-Difluorobenzene (Surr)	95		70 - 130				09/28/22 14:59	10/01/22 06:49	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/01/22 19:48	1
Method: 8015 NM - Diesel Range	e Organics (DR)	O) (GC)							
_			RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte		Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 09/23/22 12:25	
Analyte Total TPH		Qualifier U		MDL		<u>D</u>	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Ran	Result <49.9 ge Organics (Di	Qualifier U RO) (GC)	49.9		mg/Kg			09/23/22 12:25	1
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte	Result <49.9 ge Organics (DI Result	Qualifier U RO) (GC) Qualifier	49.9	MDL	mg/Kg	<u>D</u>	Prepared	09/23/22 12:25 Analyzed	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics	Result <49.9 ge Organics (Di	Qualifier U RO) (GC) Qualifier	49.9		mg/Kg			09/23/22 12:25	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 ge Organics (DI Result	Qualifier U RO) (GC) Qualifier U	49.9		mg/Kg		Prepared	09/23/22 12:25 Analyzed	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (DI Result <49.9	Qualifier U RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 09/22/22 08:45	09/23/22 12:25 Analyzed 09/22/22 20:34	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 09/22/22 08:45	09/23/22 12:25 Analyzed 09/22/22 20:34 09/22/22 20:34	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 09/22/22 08:45 09/22/22 08:45	09/23/22 12:25 Analyzed 09/22/22 20:34 09/22/22 20:34	Dil Face 1 1 1 Dil Face
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 09/22/22 08:45 09/22/22 08:45 09/22/22 08:45 Prepared	09/23/22 12:25 Analyzed 09/22/22 20:34 09/22/22 20:34 09/22/22 20:34 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U RO) (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 09/22/22 08:45 09/22/22 08:45 09/22/22 08:45 Prepared 09/22/22 08:45	09/23/22 12:25 Analyzed 09/22/22 20:34 09/22/22 20:34 Analyzed 09/22/22 20:34	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.9	Qualifier U RO) (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 09/22/22 08:45 09/22/22 08:45 09/22/22 08:45 Prepared 09/22/22 08:45	09/23/22 12:25 Analyzed 09/22/22 20:34 09/22/22 20:34 Analyzed 09/22/22 20:34	Dil Fac 1 Dil Fac 1 1 Dil Fac 1 Dil Fac 1 Dil Fac

Client Sample ID: H-2 (0-2')

Date Collected: 09/19/22 00:00

Date Received: 09/20/22 10:22

Sample Depth: 0 - 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 07:16	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		09/28/22 14:59	10/01/22 07:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 07:16	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/28/22 14:59	10/01/22 07:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 07:16	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/28/22 14:59	10/01/22 07:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				09/28/22 14:59	10/01/22 07:16	1

Eurofins Carlsbad

Lab Sample ID: 890-3011-2

Matrix: Solid

Lab Sample ID: 890-3011-2

Client: Tetra Tech, Inc.

Job ID: 890-3011-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: H-2 (0-2')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 0 - 2

Method: 8021B - Volatile Organic Compou	unds (GC) (Continued)
---	-----------------------

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99	70 - 130	09/28/22 14:59	10/01/22 07:16	1

Mothod	Total BTEX	Total B	TEV Ca	loulation
wetnoa:	TOTAL BIEN	Total 🗖		liculation

Analyte	Result	Qualifier	RL	MDL	Unit	כ	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg		_	10/01/22 19:48	1

1 1	Mothod:	8015 NM	Discol	Pango O	raaniee i		(CC)
1	vietilou.	OU 13 INIVI	- Diesei	Rallye C	n yanicə i	UNU	1001

Analyte		Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH		<49.9	U	49.9		mg/Kg	 		09/23/22 12:25	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		09/22/22 08:45	09/22/22 21:39	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		09/22/22 08:45	09/22/22 21:39	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/22/22 08:45	09/22/22 21:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				09/22/22 08:45	09/22/22 21:39	1

1-Chlorooctane	86	70 - 130
o-Terphenyl	94	70 - 130

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.1		5.00		mg/Kg			09/23/22 23:27	1

Client Sample ID: H-3 (0-2')

Date Collected: 09/19/22 00:00

Date Received: 09/20/22 10:22

Sample Depth: 0 - 2

Mothod: 9021D	Volatile Organie	Compounds (GC)
I WIELIIOU. OUZ ID '	- voiatile Organic	Compounds (GC)

		()							
Analyte	Result	Qualifier	RL	MDL Uni	it	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/	/Kg		09/28/22 14:59	10/01/22 07:42	1
Toluene	<0.00199	U *-	0.00199	mg/	/Kg		09/28/22 14:59	10/01/22 07:42	1
Ethylbenzene	< 0.00199	U	0.00199	mg/	/Kg		09/28/22 14:59	10/01/22 07:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/	/Kg		09/28/22 14:59	10/01/22 07:42	1
o-Xylene	< 0.00199	U	0.00199	mg/	/Kg		09/28/22 14:59	10/01/22 07:42	1
Xylenes, Total	<0.00398	U	0.00398	mg/	/Kg		09/28/22 14:59	10/01/22 07:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				09/28/22 14:59	10/01/22 07:42	1
1,4-Difluorobenzene (Surr)	96		70 - 130				09/28/22 14:59	10/01/22 07:42	1

Mothod:	Total RTF	Y - Total R	TFX Calculatio	n

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg		_	10/01/22 19:48	1

Method: 8015 NM - Diese	Range Organics	(DRO)	(GC)	
Method, out of Min - Diese	I Range Organics	(DIXO)	(00)	

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/23/22 12:25	1

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09/22/22 08:45 09/22/22 21:39

Lab Sample ID: 890-3011-3

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-3011-3

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: H-3 (0-2')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 0 - 2

Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/22/22 08:45	09/22/22 22:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/22/22 08:45	09/22/22 22:00	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/22/22 08:45	09/22/22 22:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				09/22/22 08:45	09/22/22 22:00	1
o-Terphenyl	118		70 - 130				09/22/22 08:45	09/22/22 22:00	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57.3		5.00		mg/Kg			09/23/22 23:32	1

Client Sample ID: H-4 (0-2') Lab Sample ID: 890-3011-4

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 0 - 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 08:08	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		09/28/22 14:59	10/01/22 08:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 08:08	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/28/22 14:59	10/01/22 08:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 08:08	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/28/22 14:59	10/01/22 08:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				09/28/22 14:59	10/01/22 08:08	1
1,4-Difluorobenzene (Surr)	91		70 - 130				09/28/22 14:59	10/01/22 08:08	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/01/22 19:48	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/23/22 12:25	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/22/22 08:45	09/22/22 22:22	1
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		09/22/22 08:45	09/22/22 22:22	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/22/22 08:45	09/22/22 22:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				09/22/22 08:45	09/22/22 22:22	1
o-Terphenyl	115		70 - 130				09/22/22 08:45	09/22/22 22:22	1

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10/3/2022

Lab Sample ID: 890-3011-4

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: H-4 (0-2')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 0 - 2

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	27.5		5.00		mg/Kg			09/23/22 23:37	1

Client Sample ID: H-5 (0-2') Lab Sample ID: 890-3011-5 Matrix: Solid

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 0 - 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 08:35	
Toluene	<0.00200	U *-	0.00200		mg/Kg		09/28/22 14:59	10/01/22 08:35	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 08:35	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/28/22 14:59	10/01/22 08:35	
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 08:35	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/28/22 14:59	10/01/22 08:35	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	116		70 - 130				09/28/22 14:59	10/01/22 08:35	1
1,4-Difluorobenzene (Surr)	95		70 - 130				09/28/22 14:59	10/01/22 08:35	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			10/01/22 19:48	1
Method: 8015 NM - Diesel Range	•								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/23/22 12:25	1
Method: 8015B NM - Diesel Rang	•								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/22/22 08:45	09/22/22 22:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/22/22 08:45	09/22/22 22:43	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/22/22 08:45	09/22/22 22:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	95		70 - 130				09/22/22 08:45	09/22/22 22:43	1
o-Terphenyl	104		70 - 130				09/22/22 08:45	09/22/22 22:43	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-3011-6

Client: Tetra Tech, Inc.

Job ID: 890-3011-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: H-6 (0-2')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 0 - 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/28/22 14:59	10/01/22 09:01	1
Toluene	<0.00201	U *-	0.00201		mg/Kg		09/28/22 14:59	10/01/22 09:01	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/28/22 14:59	10/01/22 09:01	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/28/22 14:59	10/01/22 09:01	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/28/22 14:59	10/01/22 09:01	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/28/22 14:59	10/01/22 09:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				09/28/22 14:59	10/01/22 09:01	1
1,4-Difluorobenzene (Surr)	95		70 - 130				09/28/22 14:59	10/01/22 09:01	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/01/22 19:48	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
_		O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte		Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 09/23/22 12:25	
Method: 8015 NM - Diesel Range Analyte Total TPH		Qualifier U		MDL		<u>D</u>	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Ran	Result <50.0	Qualifier U RO) (GC)	50.0		mg/Kg	=		09/23/22 12:25	1
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte	Result <50.0 ge Organics (Dige Result	Qualifier U RO) (GC) Qualifier	50.0		mg/Kg	<u>D</u>	Prepared	09/23/22 12:25 Analyzed	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Randanalyte Gasoline Range Organics	Result <50.0	Qualifier U RO) (GC) Qualifier	50.0		mg/Kg	=		09/23/22 12:25	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0 ge Organics (Dige Result	Qualifier U RO) (GC) Qualifier U	50.0		mg/Kg	=	Prepared	09/23/22 12:25 Analyzed	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran		Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 09/22/22 08:45	09/23/22 12:25 Analyzed 09/22/22 23:05	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0		mg/Kg Unit mg/Kg	=	Prepared 09/22/22 08:45	09/23/22 12:25 Analyzed 09/22/22 23:05	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0 Limits		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 09/22/22 08:45 09/22/22 08:45 09/22/22 08:45 Prepared	09/23/22 12:25 Analyzed 09/22/22 23:05 09/22/22 23:05 09/22/22 23:05 Analyzed	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 09/22/22 08:45 09/22/22 08:45	09/23/22 12:25 Analyzed 09/22/22 23:05 09/22/22 23:05	Dil Face 1 1 1 Dil Face
Analyte Total TPH Method: 8015B NM - Diesel Randanalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0 Limits		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 09/22/22 08:45 09/22/22 08:45 09/22/22 08:45 Prepared	09/23/22 12:25 Analyzed 09/22/22 23:05 09/22/22 23:05 09/22/22 23:05 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Randanalyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0	Qualifier U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 09/22/22 08:45 09/22/22 08:45 09/22/22 08:45 Prepared 09/22/22 08:45	09/23/22 12:25 Analyzed 09/22/22 23:05 09/22/22 23:05 Analyzed 09/22/22 23:05	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <50.0	Qualifier U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg	=	Prepared 09/22/22 08:45 09/22/22 08:45 09/22/22 08:45 Prepared 09/22/22 08:45	09/23/22 12:25 Analyzed 09/22/22 23:05 09/22/22 23:05 Analyzed 09/22/22 23:05	Dil Fac

Client Sample ID: H-7 (0-2')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Date (CCC) VCG. 05/20/22 10.2

Sample Depth: 0 - 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/28/22 14:59	10/01/22 09:37	1
Toluene	<0.00199	U *-	0.00199		mg/Kg		09/28/22 14:59	10/01/22 09:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/28/22 14:59	10/01/22 09:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/28/22 14:59	10/01/22 09:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/28/22 14:59	10/01/22 09:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/28/22 14:59	10/01/22 09:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				09/28/22 14:59	10/01/22 09:37	1

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Lab Sample ID: 890-3011-7

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Matrix: Solid

Lab Sample ID: 890-3011-7

Lab Sample ID: 890-3011-8

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-3011-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: H-7 (0-2')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 0 - 2

Method: 8021B - Volatile Organic Compou	unds (GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	88	70 - 130	09/28/22 14:59	10/01/22 09:37	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/01/22 19:48	1

Mothod: 8015 NM -	Diosal Panga	Organice	(DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/23/22 12:25	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL I	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		09/22/22 08:45	09/22/22 23:26	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8	ı	mg/Kg		09/22/22 08:45	09/22/22 23:26	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	ı	mg/Kg		09/22/22 08:45	09/22/22 23:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				09/22/22 08:45	09/22/22 23:26	1

1-Chlorooctane	88	70 - 130	
o-Terphenyl	93	70 - 130	

– Method: 300.0 - Anions, Ion Chrom	atography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.7		5.03		mg/Kg			09/23/22 23:52	1

Client Sample ID: BH-191 (8')

Date Collected: 09/19/22 00:00

Date Received: 09/20/22 10:22

Sample Depth: 8

Mothod: 9021D	Volatile Organie	Compounds (GC)
I WIELIIOU. OUZ ID '	- voiatile Organic	Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 10:04	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		09/28/22 14:59	10/01/22 10:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 10:04	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/28/22 14:59	10/01/22 10:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 10:04	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/28/22 14:59	10/01/22 10:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				09/28/22 14:59	10/01/22 10:04	1
1,4-Difluorobenzene (Surr)	90		70 - 130				09/28/22 14:59	10/01/22 10:04	1

Mothod:	Total RTF	Y - Total R	TFX Calculatio	n

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/01/22 19:48	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	94.3	50.0	mg/Kg			09/23/22 12:25	1

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Lab Sample ID: 890-3011-8

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-191 (8')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/22/22 08:45	09/23/22 02:18	1
Diesel Range Organics (Over C10-C28)	94.3		50.0		mg/Kg		09/22/22 08:45	09/23/22 02:18	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/22/22 08:45	09/23/22 02:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130				09/22/22 08:45	09/23/22 02:18	1
o-Terphenyl	119		70 - 130				09/22/22 08:45	09/23/22 02:18	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	267		4.99		mg/Kg			09/24/22 00:07	1

Lab Sample ID: 890-3011-9 Client Sample ID: BH-192 (8') Date Collected: 09/19/22 00:00 Matrix: Solid

Date Received: 09/20/22 10:22

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/28/22 14:59	10/01/22 10:30	1
Toluene	<0.00202	U *-	0.00202		mg/Kg		09/28/22 14:59	10/01/22 10:30	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/28/22 14:59	10/01/22 10:30	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		09/28/22 14:59	10/01/22 10:30	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/28/22 14:59	10/01/22 10:30	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		09/28/22 14:59	10/01/22 10:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				09/28/22 14:59	10/01/22 10:30	1
1,4-Difluorobenzene (Surr)	99		70 - 130				09/28/22 14:59	10/01/22 10:30	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			10/01/22 19:48	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/23/22 12:25	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/22/22 08:45	09/22/22 23:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/22/22 08:45	09/22/22 23:47	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/22/22 08:45	09/22/22 23:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				09/22/22 08:45	09/22/22 23:47	1
o-Terphenyl	92		70 ₋ 130				09/22/22 08:45	09/22/22 23:47	1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-3011-1

SDG: Lea County NM

Client Sample ID: BH-192 (8')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 8

Lab Sample ID: 890-3011-9

Matrix: Solid

Method: 300.0 - A	inions, Ion Chromatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	249		4.99		mg/Kg			09/24/22 00:12	1

Client Sample ID: BH-193 (8') Lab Sample ID: 890-3011-10 Matrix: Solid

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201		mg/Kg		09/28/22 14:59	10/01/22 10:57	
Toluene	<0.00201	U *-	0.00201		mg/Kg		09/28/22 14:59	10/01/22 10:57	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/28/22 14:59	10/01/22 10:57	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/28/22 14:59	10/01/22 10:57	
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/28/22 14:59	10/01/22 10:57	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/28/22 14:59	10/01/22 10:57	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	123		70 - 130				09/28/22 14:59	10/01/22 10:57	
1,4-Difluorobenzene (Surr)	91		70 - 130				09/28/22 14:59	10/01/22 10:57	
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402	U	0.00402		mg/Kg			10/01/22 19:48	
Method: 8015 NM - Diesel Range	o Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	64.0		50.0		mg/Kg			09/23/22 12:25	
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/22/22 08:45	09/23/22 01:56	
Diesel Range Organics (Over C10-C28)	64.0		50.0		mg/Kg		09/22/22 08:45	09/23/22 01:56	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/22/22 08:45	09/23/22 01:56	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	88		70 - 130				09/22/22 08:45	09/23/22 01:56	
o-Terphenyl	94		70 - 130				09/22/22 08:45	09/23/22 01:56	
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	66.4	· 	4.96		mg/Kg	_		09/24/22 00:26	

Lab Sample ID: 890-3011-11

Client: Tetra Tech, Inc.

Job ID: 890-3011-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-194 (8')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199		mg/Kg		09/28/22 14:59	10/01/22 12:42	
Toluene	< 0.00199	U *-	0.00199		mg/Kg		09/28/22 14:59	10/01/22 12:42	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		09/28/22 14:59	10/01/22 12:42	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/28/22 14:59	10/01/22 12:42	
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/28/22 14:59	10/01/22 12:42	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/28/22 14:59	10/01/22 12:42	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	118		70 - 130				09/28/22 14:59	10/01/22 12:42	
1,4-Difluorobenzene (Surr)	92		70 - 130				09/28/22 14:59	10/01/22 12:42	
Method: Total BTEX - Total BTI	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/01/22 19:48	
Total TPH	986		49.9		mg/Kg			09/23/22 12:25	
								09/23/22 12.23	
			DI.	MDI	11-24		Dogwood		DU E
Analyte	Result	Qualifier	RL	MDL		D	Prepared 00/20/20 00:45	Analyzed	Dil Fa
Analyte Gasoline Range Organics		Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared 09/22/22 08:45		Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier		MDL		<u>D</u>		Analyzed	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over		Qualifier	49.9	MDL	mg/Kg	<u>D</u>	09/22/22 08:45	Analyzed 09/23/22 02:40	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)		Qualifier U	49.9	MDL	mg/Kg	<u>D</u>	09/22/22 08:45 09/22/22 08:45	Analyzed 09/23/22 02:40 09/23/22 02:40	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9 817 169	Qualifier U	49.9 49.9 49.9	MDL	mg/Kg	<u>D</u>	09/22/22 08:45 09/22/22 08:45 09/22/22 08:45	Analyzed 09/23/22 02:40 09/23/22 02:40 09/23/22 02:40	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9 817 169 %Recovery	Qualifier U	49.9 49.9 49.9 <i>Limits</i>	MDL	mg/Kg	<u>D</u>	09/22/22 08:45 09/22/22 08:45 09/22/22 08:45 Prepared	Analyzed 09/23/22 02:40 09/23/22 02:40 09/23/22 02:40 Analyzed	
Method: 8015B NM - Diesel Rai Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Ch	Result <49.9 817 169	Qualifier U Qualifier	49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg	<u> </u>	09/22/22 08:45 09/22/22 08:45 09/22/22 08:45 Prepared 09/22/22 08:45	Analyzed 09/23/22 02:40 09/23/22 02:40 09/23/22 02:40 Analyzed 09/23/22 02:40	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.9 817 169	Qualifier U Qualifier	49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	09/22/22 08:45 09/22/22 08:45 09/22/22 08:45 Prepared 09/22/22 08:45	Analyzed 09/23/22 02:40 09/23/22 02:40 09/23/22 02:40 Analyzed 09/23/22 02:40	Dil Fa

Client Sample ID: BH-195 (8')

Date Collected: 09/19/22 00:00

Date Received: 09/20/22 10:22

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/28/22 14:59	10/01/22 13:08	1
Toluene	<0.00198	U *-	0.00198		mg/Kg		09/28/22 14:59	10/01/22 13:08	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/28/22 14:59	10/01/22 13:08	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		09/28/22 14:59	10/01/22 13:08	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/28/22 14:59	10/01/22 13:08	1
Xylenes, Total	< 0.00397	U	0.00397		mg/Kg		09/28/22 14:59	10/01/22 13:08	1

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Lab Sample ID: 890-3011-12

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Matrix: Solid

Client: Tetra Tech, Inc.
Project/Site: Kaiser SWD

Job ID: 890-3011-1 SDG: Lea County NM

Lab Sample ID: 890-3011-12

Lab Sample ID: 890-3011-13

Matrix: Solid

Matrix: Solid

Client Sample ID: BH-195 (8')
Date Collected: 09/19/22 00:00

Date Received: 09/19/22 10:22

Sample Depth: 8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	09/28/22 14:59	10/01/22 13:08	1
1,4-Difluorobenzene (Surr)	9	S1-	70 - 130	09/28/22 14:59	10/01/22 13:08	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL Un	it D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg	/Kg		10/01/22 19:48	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte		Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH		<49.9	U	49.9		mg/Kg	 		09/23/22 12:25	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/22/22 08:45	09/23/22 00:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/22/22 08:45	09/23/22 00:09	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/22/22 08:45	09/23/22 00:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				09/22/22 08:45	09/23/22 00:09	1

1-Chlorooctane	87	70 - 130
o-Terphenyl	94	70 - 130

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.5		5.05		mg/Kg			09/24/22 00:36	1

Client Sample ID: BH-196 (4.5')

Date Collected: 09/19/22 00:00

Date Received: 09/20/22 10:22

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 13:34	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		09/28/22 14:59	10/01/22 13:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 13:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/28/22 14:59	10/01/22 13:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 13:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/28/22 14:59	10/01/22 13:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				09/28/22 14:59	10/01/22 13:34	1
1,4-Difluorobenzene (Surr)	90		70 - 130				09/28/22 14:59	10/01/22 13:34	1

wetnoa:	rotai	BIEX -	lotal B I EX	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			10/01/22 19:48	1

Method: 8015 NM - Diesel Range Organics	(DRO)	(GC)
	()	(,

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8 U	49.8	mg/Kg			09/23/22 12:25	1

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Lab Sample ID: 890-3011-13

Lab Sample ID: 890-3011-14

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-196 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		09/22/22 08:45	09/23/22 00:30	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		09/22/22 08:45	09/23/22 00:30	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/22/22 08:45	09/23/22 00:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				09/22/22 08:45	09/23/22 00:30	1
o-Terphenyl	102		70 - 130				09/22/22 08:45	09/23/22 00:30	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH-197 (4.5')

Date Collected: 09/19/22 00:00

Date Received: 09/20/22 10:22

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/28/22 14:59	10/01/22 14:00	1
Toluene	<0.00198	U *-	0.00198		mg/Kg		09/28/22 14:59	10/01/22 14:00	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/28/22 14:59	10/01/22 14:00	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		09/28/22 14:59	10/01/22 14:00	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/28/22 14:59	10/01/22 14:00	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/28/22 14:59	10/01/22 14:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				09/28/22 14:59	10/01/22 14:00	1
1,4-Difluorobenzene (Surr)	91		70 - 130				09/28/22 14:59	10/01/22 14:00	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			10/01/22 19:48	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	96.5		50.0		mg/Kg			09/23/22 12:25	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/22/22 08:45	09/23/22 03:01	1
Diesel Range Organics (Over C10-C28)	96.5		50.0		mg/Kg		09/22/22 08:45	09/23/22 03:01	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/22/22 08:45	09/23/22 03:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				09/22/22 08:45	09/23/22 03:01	1
o-Terphenyl	111		70 ₋ 130				09/22/22 08:45	09/23/22 03:01	1

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10/3/2022

Lab Sample ID: 890-3011-14

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-3011-1 SDG: Lea County NM

Client Sample ID: BH-197 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 4.5

Method: 300.0 - Anions, Ion Chromatography - Soluble											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	1710		24.9		mg/Kg			09/24/22 00:46	5		

Lab Sample ID: 890-3011-15 **Client Sample ID: BH-198 (4.5')** Matrix: Solid

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00202	U	0.00202		mg/Kg		09/28/22 14:59	10/01/22 14:26	
Toluene	<0.00202	U *-	0.00202		mg/Kg		09/28/22 14:59	10/01/22 14:26	
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/28/22 14:59	10/01/22 14:26	
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		09/28/22 14:59	10/01/22 14:26	
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/28/22 14:59	10/01/22 14:26	
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		09/28/22 14:59	10/01/22 14:26	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	121		70 - 130				09/28/22 14:59	10/01/22 14:26	-
1,4-Difluorobenzene (Surr)	94		70 - 130				09/28/22 14:59	10/01/22 14:26	1
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	< 0.00403	U	0.00403		mg/Kg			10/01/22 19:48	•
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.8	U	49.8		mg/Kg			09/23/22 12:25	
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/22/22 08:45	09/23/22 01:13	,
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/22/22 08:45	09/23/22 01:13	,
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/22/22 08:45	09/23/22 01:13	
,							Prepared	Analyzed	Dil Fa
Surrogate	%Recovery	Qualifier	Limits					u.y_cu	Diria
Surrogate 1-Chlorooctane	%Recovery 88	Qualifier					09/22/22 08:45	09/23/22 01:13	
1-Chlorooctane		Qualifier							
	88 95		70 - 130				09/22/22 08:45	09/23/22 01:13	
1-Chlorooctane o-Terphenyl	88 95 omatography -		70 - 130	MDL	Unit	D	09/22/22 08:45	09/23/22 01:13	Dil Fac

Lab Sample ID: 890-3011-16

Client: Tetra Tech, Inc.

Job ID: 890-3011-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-199 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/28/22 14:59	10/01/22 14:52	1
Toluene	<0.00198	U *-	0.00198		mg/Kg		09/28/22 14:59	10/01/22 14:52	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/28/22 14:59	10/01/22 14:52	1
m-Xylene & p-Xylene	< 0.00396	U	0.00396		mg/Kg		09/28/22 14:59	10/01/22 14:52	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/28/22 14:59	10/01/22 14:52	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/28/22 14:59	10/01/22 14:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				09/28/22 14:59	10/01/22 14:52	1
1,4-Difluorobenzene (Surr)	93		70 - 130				09/28/22 14:59	10/01/22 14:52	1
- Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			10/01/22 19:48	1
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH				IVIDE	OTIL		riepaieu	Allalyzeu	
	\43.3	U	49.9		mg/Kg			09/23/22 12:25	1
- -			49.9		mg/Kg			09/23/22 12:25	1
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)							
Method: 8015B NM - Diesel Rang Analyte	ge Organics (D	RO) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier		MDL		<u>D</u>	Prepared 09/22/22 08:45		Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier	RL	MDL	Unit	<u>D</u>		Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (D Result <49.9	RO) (GC) Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	09/22/22 08:45	Analyzed 09/23/22 01:35	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D Result <49.9	RO) (GC) Qualifier U	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	09/22/22 08:45	Analyzed 09/23/22 01:35	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <49.9	RO) (GC) Qualifier U	RL 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	09/22/22 08:45 09/22/22 08:45	Analyzed 09/23/22 01:35	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D Result <49.9 <49.9	RO) (GC) Qualifier U	RL 49.9 49.9 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	09/22/22 08:45 09/22/22 08:45 09/22/22 08:45	Analyzed 09/23/22 01:35 09/23/22 01:35 09/23/22 01:35	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	ge Organics (D Result <49.9 <49.9 <49.9 %Recovery	RO) (GC) Qualifier U	RL 49.9 49.9 49.9 <i>Limits</i>	MDL	Unit mg/Kg mg/Kg	<u>D</u>	09/22/22 08:45 09/22/22 08:45 09/22/22 08:45 Prepared	Analyzed 09/23/22 01:35 09/23/22 01:35 09/23/22 01:35 Analyzed	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	ge Organics (D Result <49.9 <49.9 <49.9 **Recovery 90 100	RO) (GC) Qualifier U U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	09/22/22 08:45 09/22/22 08:45 09/22/22 08:45 Prepared 09/22/22 08:45	Analyzed 09/23/22 01:35 09/23/22 01:35 09/23/22 01:35 Analyzed 09/23/22 01:35	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	ge Organics (D Result <49.9 <49.9 <49.9 **Recovery 90 100 omatography -	RO) (GC) Qualifier U U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg	D	09/22/22 08:45 09/22/22 08:45 09/22/22 08:45 Prepared 09/22/22 08:45	Analyzed 09/23/22 01:35 09/23/22 01:35 09/23/22 01:35 Analyzed 09/23/22 01:35	Dil Fac

Client Sample ID: BH-200 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 4.5

REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-3011-17

Matrix: Solid

Method: 8021B - Volatile Orga	nic Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0201	U	0.0201		mg/Kg		09/28/22 14:59	10/01/22 16:10	10
Toluene	<0.0201	U *-	0.0201		mg/Kg		09/28/22 14:59	10/01/22 16:10	10
Ethylbenzene	0.0529		0.0201		mg/Kg		09/28/22 14:59	10/01/22 16:10	10
m-Xylene & p-Xylene	0.116		0.0402		mg/Kg		09/28/22 14:59	10/01/22 16:10	10
o-Xylene	<0.0201	U	0.0201		mg/Kg		09/28/22 14:59	10/01/22 16:10	10
Xylenes, Total	0.116		0.0402		mg/Kg		09/28/22 14:59	10/01/22 16:10	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130				09/28/22 14:59	10/01/22 16:10	10

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-3011-1 SDG: Lea County NM

Client Sample ID: BH-200 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22 Sample Depth: 4.5

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-3011-17

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 70 - 130 09/28/22 14:59 1,4-Difluorobenzene (Surr) 87 10/01/22 16:10

Method: Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 0.0402 10/01/22 19:48 **Total BTEX** 0.169 mg/Kg

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac **Total TPH** 2290 50.0 mg/Kg 09/23/22 12:25

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

MDL Unit D Analyte Result Qualifier RL Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 09/22/22 08:45 09/23/22 03:23 mg/Kg (GRO)-C6-C10 50.0 mg/Kg 09/22/22 08:45 09/23/22 03:23 **Diesel Range Organics (Over** 2020 C10-C28) **Oll Range Organics (Over** 267 50.0 mg/Kg 09/22/22 08:45 09/23/22 03:23 C28-C36)

Qualifier Limits Prepared Analyzed Dil Fac Surrogate %Recovery 09/22/22 08:45 1-Chlorooctane 89 70 - 130 09/23/22 03:23 o-Terphenyl 90 70 - 130 09/22/22 08:45 09/23/22 03:23

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Chloride 25.1 09/23/22 19:57 3220 mg/Kg

Client Sample ID: BH-201 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 4.5

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-3011-18

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0230		0.0200		mg/Kg		09/28/22 14:59	10/01/22 16:36	10
Toluene	<0.0200	U *-	0.0200		mg/Kg		09/28/22 14:59	10/01/22 16:36	10
Ethylbenzene	0.374		0.0200		mg/Kg		09/28/22 14:59	10/01/22 16:36	10
m-Xylene & p-Xylene	1.01		0.0399		mg/Kg		09/28/22 14:59	10/01/22 16:36	10
o-Xylene	0.368		0.0200		mg/Kg		09/28/22 14:59	10/01/22 16:36	10
Xylenes, Total	1.38		0.0399		mg/Kg		09/28/22 14:59	10/01/22 16:36	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	230	S1+	70 - 130				09/28/22 14:59	10/01/22 16:36	10

1,4-Difluorobenzene (Surr) 98 70 - 130 09/28/22 14:59 10/01/22 16:36 10

Method: Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac 0.0399 10/01/22 19:48 **Total BTEX** 1.78 mg/Kg

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-3011-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-201 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22 Sample Depth: 4.5 REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-3011-18

Lab Sample ID: 890-3011-19

Matrix: Solid

Matrix: Solid

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2040		49.9		mg/Kg			09/23/22 12:25	1
Method: 8015B NM - Diesel Rar	nge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	117		49.9		mg/Kg		09/22/22 08:45	09/23/22 03:44	1
Diesel Range Organics (Over C10-C28)	1690		49.9		mg/Kg		09/22/22 08:45	09/23/22 03:44	1
Oll Range Organics (Over C28-C36)	234		49.9		mg/Kg		09/22/22 08:45	09/23/22 03:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				09/22/22 08:45	09/23/22 03:44	1
o-Terphenyl	94		70 - 130				09/22/22 08:45	09/23/22 03:44	1
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3480		24.8		mg/Kg			09/23/22 20:11	5

Client Sample ID: BH-202 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/28/22 14:59	10/01/22 15:18	1
Toluene	< 0.00199	U *-	0.00199		mg/Kg		09/28/22 14:59	10/01/22 15:18	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		09/28/22 14:59	10/01/22 15:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/28/22 14:59	10/01/22 15:18	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		09/28/22 14:59	10/01/22 15:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/28/22 14:59	10/01/22 15:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				09/28/22 14:59	10/01/22 15:18	1
1,4-Difluorobenzene (Surr)	94		70 - 130				09/28/22 14:59	10/01/22 15:18	1
Method: Total BTEX - Total BTI Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	<0.00398	U	RL 0.00398	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/01/22 19:48	Dil Fac
Analyte Total BTEX	Result <0.00398	U				<u>D</u>	Prepared Prepared		Dil Fac Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Ranç	Result <0.00398	O) (GC) Qualifier	0.00398		mg/Kg		· · ·	10/01/22 19:48	1
Analyte Total BTEX Method: 8015 NM - Diesel Rang Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <0.00398 ge Organics (DR) Result <49.9 nge Organics (D	U O) (GC) Qualifier U RO) (GC)	0.00398 RL 49.9	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	10/01/22 19:48 Analyzed 09/23/22 12:25	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Ranç Analyte Total TPH	Result <0.00398 ge Organics (DR) Result <49.9 nge Organics (DR) Result	U O) (GC) Qualifier U RO) (GC) Qualifier	0.00398 RL 49.9		mg/Kg Unit mg/Kg		Prepared Prepared	10/01/22 19:48 Analyzed 09/23/22 12:25 Analyzed	1
Analyte Total BTEX Method: 8015 NM - Diesel Rang Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <0.00398 ge Organics (DR) Result <49.9 nge Organics (D	U O) (GC) Qualifier U RO) (GC) Qualifier	0.00398 RL 49.9	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	10/01/22 19:48 Analyzed 09/23/22 12:25	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Rang Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <0.00398 ge Organics (DR) Result <49.9 nge Organics (DR) Result	U O) (GC) Qualifier U RO) (GC) Qualifier U	0.00398 RL 49.9	MDL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	10/01/22 19:48 Analyzed 09/23/22 12:25 Analyzed	Dil Fac

Client: Tetra Tech, Inc.
Project/Site: Kaiser SWD

Client Sample ID: BH-202 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 4.5

Lab Sample ID: 890-3011-19

Matrix: Solid

Job ID: 890-3011-1

SDG: Lea County NM

Surrogate	%Recovery G	Qualifier Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105	70 - 130	09/23/22 11:03	09/24/22 11:43	1
o-Terphenyl	98	70 - 130	09/23/22 11:03	09/24/22 11:43	1

Method: 300.0 - Anions, Ion Chromatography - SolubleAnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FacChloride313025.0mg/Kg09/23/22 20:165

Client Sample ID: BH-203 (4.5')

Lab Sample ID: 890-3011-20

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		09/28/22 14:59	10/01/22 15:44	
Toluene	<0.00198	U *-	0.00198		mg/Kg		09/28/22 14:59	10/01/22 15:44	
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/28/22 14:59	10/01/22 15:44	•
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		09/28/22 14:59	10/01/22 15:44	
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/28/22 14:59	10/01/22 15:44	
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		09/28/22 14:59	10/01/22 15:44	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	120		70 - 130				09/28/22 14:59	10/01/22 15:44	
1,4-Difluorobenzene (Surr)	92		70 - 130				09/28/22 14:59	10/01/22 15:44	
- Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00397	U	0.00397		mg/Kg			10/01/22 19:48	
- Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/23/22 12:25	
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/23/22 11:03	09/24/22 12:48	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/23/22 11:03	09/24/22 12:48	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/23/22 11:03	09/24/22 12:48	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	117		70 - 130				09/23/22 11:03	09/24/22 12:48	-
o-Terphenyl	110		70 - 130				09/23/22 11:03	09/24/22 12:48	
-									
Method: 300.0 - Anions, Ion Chro		Soluble							

Eurofins Carlsbad

09/23/22 20:22

4.99

mg/Kg

330

Chloride

Job ID: 890-3011-1

SDG: Lea County NM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Client Sample ID: BH-204 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22 Sample Depth: 4.5

REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-3011-21

Matrix: Solid

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0200	U *-	0.0200		mg/Kg		09/28/22 16:17	10/01/22 22:31	10
Toluene	<0.0200	U	0.0200		mg/Kg		09/28/22 16:17	10/01/22 22:31	10
Ethylbenzene	<0.0200	U	0.0200		mg/Kg		09/28/22 16:17	10/01/22 22:31	10
m-Xylene & p-Xylene	0.0689		0.0399		mg/Kg		09/28/22 16:17	10/01/22 22:31	10
o-Xylene	0.170		0.0200		mg/Kg		09/28/22 16:17	10/01/22 22:31	10
Xylenes, Total	0.239		0.0399		mg/Kg		09/28/22 16:17	10/01/22 22:31	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	789	S1+	70 - 130				09/28/22 16:17	10/01/22 22:31	10
1,4-Difluorobenzene (Surr)	96		70 - 130				09/28/22 16:17	10/01/22 22:31	10
Method: Total BTEX - Total BTE	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.239		0.0399		mg/Kg			10/01/22 19:48	-
Method: 8015 NM - Diesel Rang	ge Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	857		50.0		mg/Kg			09/23/22 12:25	-
Method: 8015B NM - Diesel Rai	nge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/22/22 11:26	09/24/22 05:14	
Diesel Range Organics (Over C10-C28)	739		50.0		mg/Kg		09/22/22 11:26	09/24/22 05:14	,
Oll Range Organics (Over C28-C36)	118		50.0		mg/Kg		09/22/22 11:26	09/24/22 05:14	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	91		70 - 130				09/22/22 11:26	09/24/22 05:14	
o-Terphenyl	94		70 - 130				09/22/22 11:26	09/24/22 05:14	
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	2870		24.9		mg/Kg			09/23/22 20:27	

Client Sample ID: BH-205 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22 Sample Depth: 4.5

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-3011-22

Matrix: Solid

Method: 8021B - Volatile	Organic Compounds	(GC)
Analysta	Populé	

Method: 8021B - Volatile Organic Compounds (GC)										
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
<0.200	U *+ *1	0.200		mg/Kg		09/29/22 16:18	10/03/22 19:15	100		
1.92	*+ *1	0.200		mg/Kg		09/29/22 16:18	10/03/22 19:15	100		
3.18	*+ *1	0.200		mg/Kg		09/29/22 16:18	10/03/22 19:15	100		
17.6	*+ *1	0.399		mg/Kg		09/29/22 16:18	10/03/22 19:15	100		
8.12	*+ *1	0.200		mg/Kg		09/29/22 16:18	10/03/22 19:15	100		
25.7	*+ *1	0.399		mg/Kg		09/29/22 16:18	10/03/22 19:15	100		
	Result <0.200 1.92 3.18 17.6 8.12	Result Qualifier <0.200 U*+*1 1.92 *+*1 3.18 *+*1 17.6 *+*1 8.12 *+*1 25.7 *+*1	Result Qualifier RL <0.200	Result Qualifier RL 0.200 MDL <0.200 U*+*1	Result Qualifier RL MDL Unit <0.200	Result Qualifier RL MDL Unit D <0.200	Result Qualifier RL MDL Unit D Prepared <0.200 U*+*1	Result Qualifier RL MDL Unit D Prepared Analyzed <0.200 U*+*1		

Client Sample Results

Job ID: 890-3011-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-205 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22 Sample Depth: 4.5

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-3011-22

Matrix: Solid

Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac 155 S1+ 70 - 130 09/29/22 16:18 10/03/22 19:15 100 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 84 70 - 130 09/29/22 16:18 10/03/22 19:15 100

Method: Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac **Total BTEX** 0.399 10/01/22 19:48 30.8 mg/Kg

Method: 8015 NM - Diesel Range (Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3640		49.9		mg/Kg			09/23/22 12:25	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	582	49.9	mg/Kg		09/22/22 11:26	09/24/22 04:09	1
Diesel Range Organics (Over C10-C28)	2690	49.9	mg/Kg		09/22/22 11:26	09/24/22 04:09	1
Oll Range Organics (Over C28-C36)	372	49.9	mg/Kg		09/22/22 11:26	09/24/22 04:09	1

Qualifier Limits Prepared Analyzed Dil Fac Surrogate %Recovery 09/22/22 11:26 09/24/22 04:09 1-Chlorooctane 120 70 - 130 o-Terphenyl 115 70 - 130 09/22/22 11:26 09/24/22 04:09

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier Dil Fac RL MDL Unit D Prepared Analyzed Chloride 25.0 09/23/22 20:41 1410 mg/Kg

Client Sample ID: BH-206 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 4.5

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-3011-23

Matrix: Solid

Method: 8021B - Volatile Organ	nic Compounds (GC)
A = 14 =	Desuit Our

		/							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0199	U *-	0.0199		mg/Kg		09/28/22 16:17	10/01/22 23:12	10
Toluene	<0.0199	U	0.0199		mg/Kg		09/28/22 16:17	10/01/22 23:12	10
Ethylbenzene	0.415		0.0199		mg/Kg		09/28/22 16:17	10/01/22 23:12	10
m-Xylene & p-Xylene	1.12		0.0398		mg/Kg		09/28/22 16:17	10/01/22 23:12	10
o-Xylene	0.709		0.0199		mg/Kg		09/28/22 16:17	10/01/22 23:12	10
Xylenes, Total	1.83		0.0398		mg/Kg		09/28/22 16:17	10/01/22 23:12	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				09/28/22 16:17	10/01/22 23:12	10
1,4-Difluorobenzene (Surr)	65	S1-	70 - 130				09/28/22 16:17	10/01/22 23:12	10

Method: Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac 0.0398 10/01/22 19:48 **Total BTEX** 2.24 mg/Kg

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-3011-1 SDG: Lea County NM

Client Sample ID: BH-206 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22 **REMOVED FROM ANALYSIS TABLE** Lab Sample ID: 890-3011-23

09/24/22 04:31

Lab Sample ID: 890-3011-24

Matrix: Solid

09/22/22 11:26

Matrix: Solid

Sample Depth: 4.5

Method: 8015 NM - Diesel Range Organics (DRO) (GC)											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Total TPH	1390		50.0		mg/Kg			09/23/22 12:25	1		

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Gasoline Range Organics 50.0 09/22/22 11:26 09/24/22 04:31 169 mg/Kg (GRO)-C6-C10 **Diesel Range Organics (Over** 50.0 mg/Kg 09/22/22 11:26 09/24/22 04:31 1060 C10-C28) **Oll Range Organics (Over** 159 50.0 mg/Kg 09/22/22 11:26 09/24/22 04:31 C28-C36) Qualifier Limits Analyzed Dil Fac Surrogate %Recovery Prepared 70 - 130 1-Chlorooctane 95 09/22/22 11:26 09/24/22 04:31

Method: 300.0 - Anions, Ion Chroma	atography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1930		25.0		mg/Kg			09/23/22 20:46	5

70 - 130

Client Sample ID: BH-207 (4.5')

94

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 4.5

o-Terphenyl

Method: 8021B - Volatile Orga	nic Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *-	0.00202		mg/Kg		09/28/22 16:17	10/01/22 21:51	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/28/22 16:17	10/01/22 21:51	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/28/22 16:17	10/01/22 21:51	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		09/28/22 16:17	10/01/22 21:51	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/28/22 16:17	10/01/22 21:51	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		09/28/22 16:17	10/01/22 21:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				09/28/22 16:17	10/01/22 21:51	1
1,4-Difluorobenzene (Surr)	104		70 - 130				09/28/22 16:17	10/01/22 21:51	1

Method: Total BTEX - Total BTEX C	alculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg				10/01/22 19:48	1

Method: 8015 NM - Diesel Range C	Organics (DR	O) (GC)								
Analyte	Result	Qualifier	RL	MDL	Unit	[D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg				09/23/22 12:25	1

Method: 8015B NM - Diesel Range	Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/22/22 11:26	09/24/22 03:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/22/22 11:26	09/24/22 03:26	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/22/22 11:26	09/24/22 03:26	1

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Matrix: Solid

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-3011-1 SDG: Lea County NM

Lab Sample ID: 890-3011-24

Lab Sample ID: 890-3011-25

Client Sample ID: BH-207 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

nnle Denth: 4.5

Sample Depth: 4.5						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 130	09/22/22 11:26	09/24/22 03:26	1

7 01110100010110							00/22/2220	00/2 // 22 00:20	•
o-Terphenyl	111		70 - 130				09/22/22 11:26	09/24/22 03:26	1
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4000		49.7		mg/Kg			09/23/22 20:51	10

Client Sample ID: SW-62 (8-13')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Analyte

Chloride

Method: 8021B - Volatile Organ		•							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200		mg/Kg		09/28/22 16:17	10/01/22 22:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:17	10/01/22 22:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:17	10/01/22 22:11	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/28/22 16:17	10/01/22 22:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:17	10/01/22 22:11	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/28/22 16:17	10/01/22 22:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				09/28/22 16:17	10/01/22 22:11	1
1,4-Difluorobenzene (Surr)	105		70 - 130				09/28/22 16:17	10/01/22 22:11	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/01/22 19:48	1
Method: 8015 NM - Diesel Rang	je Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			09/23/22 12:25	1
· Method: 8015B NM - Diesel Rar	nge Organics (D	RO) (GC)							
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/22/22 11:26	09/24/22 05:36	1
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		09/22/22 11:26	09/24/22 05:36	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/22/22 11:26	09/24/22 05:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				09/22/22 11:26	09/24/22 05:36	1
o-Terphenyl	115		70 ₋ 130				09/22/22 11:26	09/24/22 05:36	1

RL

4.96

MDL Unit

mg/Kg

D

Prepared

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Analyzed

09/23/22 20:56

Dil Fac

Result Qualifier

330

Lab Sample ID: 890-3011-26

Client: Tetra Tech, Inc.

Job ID: 890-3011-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-72 (0-8')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 0 - 8

Method: 8021B - Volatile Organ						_			
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *-	0.00199		mg/Kg		09/28/22 16:17	10/02/22 01:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/28/22 16:17	10/02/22 01:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/28/22 16:17	10/02/22 01:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/28/22 16:17	10/02/22 01:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/28/22 16:17	10/02/22 01:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/28/22 16:17	10/02/22 01:22	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				09/28/22 16:17	10/02/22 01:22	1
1,4-Difluorobenzene (Surr)	96		70 - 130				09/28/22 16:17	10/02/22 01:22	1
Method: Total BTEX - Total BT	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/01/22 19:48	1
Method: 8015 NM - Diesel Rang Analyte	• •	O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	436		49.9		mg/Kg			09/23/22 12:25	1
Method: 8015B NM - Diesel Ra	nge Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/22/22 11:26	09/24/22 04:53	1
Diesel Range Organics (Over C10-C28)	348		49.9		mg/Kg		09/22/22 11:26	09/24/22 04:53	1
Oll Range Organics (Over C28-C36)	87.6		49.9		mg/Kg		09/22/22 11:26	09/24/22 04:53	1
Summanata	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Surrogate			70 400				09/22/22 11:26	09/24/22 04:53	1
1-Chlorooctane	115		70 - 130					00/2 // 22 0 // 00	
	115 121		70 ₋ 130 70 ₋ 130				09/22/22 11:26	09/24/22 04:53	
1-Chlorooctane	121	Soluble					09/22/22 11:26		
1-Chlorooctane o-Terphenyl	121 nromatography -	Soluble Qualifier		MDL	Unit	D	09/22/22 11:26 Prepared		Dil Fac

Client Sample ID: SW-73 (6-13')

Date Collected: 09/19/22 00:00

Date Received: 09/20/22 10:22

Sample Depth: 6 - 13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200		mg/Kg		09/28/22 16:17	10/02/22 01:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:17	10/02/22 01:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:17	10/02/22 01:42	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/28/22 16:17	10/02/22 01:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:17	10/02/22 01:42	1
Xylenes, Total	< 0.00401	U	0.00401		mg/Kg		09/28/22 16:17	10/02/22 01:42	1

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Lab Sample ID: 890-3011-27

3

4

6

8

10

12

1 3

Lab Sample ID: 890-3011-27

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-73 (6-13')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 6 - 13

Dil Fac	Analyzed	Prepared	Limits	%Recovery Qualifier	Surrogate
1	10/02/22 01:42	09/28/22 16:17	70 - 130	108	4-Bromofluorobenzene (Surr)
1	10/02/22 01:42	09/28/22 16:17	70 - 130	98	1,4-Difluorobenzene (Surr)
	10/02/22 01:42	09/28/22 16:17	70 - 130	98	1,4-Difluorobenzene (Surr)

	Method: Total BTEX - Total BTEX Ca	alculation							
	Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
l	Total BTEX	<0.00401	U	0.00401	mg/Kg			10/01/22 19:48	1

Method: 8015 NM - Diesel Range O	rganics (DRO) (GC)						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			09/23/22 12:25	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/21/22 15:33	09/22/22 03:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/21/22 15:33	09/22/22 03:11	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 15:33	09/22/22 03:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1 Chlaracatana	400		70 400				00/04/00 45:00	00/22/22 02:44	

Surrogate	76Recovery Qualifier	LIIIIIIS	Prepareu	Allalyzeu	DII Fac
1-Chlorooctane	108	70 - 130	09/21/22 15:33	09/22/22 03:11	1
o-Terphenyl	123	70 - 130	09/21/22 15:33	09/22/22 03:11	1
Method: 300 0 - Anions Jon Chrom	natography - Soluble				

Wethou. 300.0 - Amons, fon Chron	ialograpily - Solubi	l e						
Analyte	Result Qualific	er RL	MDL Un	nit I	D	Prepared	Analyzed	Dil Fac
Chloride	394	5.02	mg	g/Kg			09/23/22 21:05	1

Client Sample ID: SW-74 (8-13') Lab Sample ID: 890-3011-28 Date Collected: 09/19/22 00:00 Matrix: Solid Date Received: 09/20/22 10:22

Sample Depth: 8 - 13

Analyte

Total TPH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *-	0.00199		mg/Kg		09/28/22 16:17	10/02/22 02:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/28/22 16:17	10/02/22 02:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/28/22 16:17	10/02/22 02:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/28/22 16:17	10/02/22 02:03	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		09/28/22 16:17	10/02/22 02:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/28/22 16:17	10/02/22 02:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				09/28/22 16:17	10/02/22 02:03	1
1,4-Difluorobenzene (Surr)	99		70 - 130				09/28/22 16:17	10/02/22 02:03	1
Method: Total BTEX - Total BT	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/01/22 19:48	1

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RL

50.0

MDL Unit

mg/Kg

Result Qualifier

<50.0 U

Dil Fac

Analyzed

09/23/22 12:25

Prepared

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-74 (8-13')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 8 - 13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/21/22 15:33	09/22/22 03:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 15:33	09/22/22 03:32	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 15:33	09/22/22 03:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				09/21/22 15:33	09/22/22 03:32	1
o-Terphenyl	132	S1+	70 - 130				09/21/22 15:33	09/22/22 03:32	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

25.2

mg/Kg

Client Sample ID: SW-75 (0-4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 0 - 4.5

Chloride

REMOVED FROM ANALYSIS TABLE

1800

Lab Sample ID: 890-3011-29

09/23/22 21:20

Lab Sample ID: 890-3011-28

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Wethou. 002 ID - Volatile Of	gaine compounds (,00)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0199	U *-	0.0199		mg/Kg		09/28/22 16:17	10/02/22 04:26	10
Toluene	<0.0199	U	0.0199		mg/Kg		09/28/22 16:17	10/02/22 04:26	10
Ethylbenzene	0.390		0.0199		mg/Kg		09/28/22 16:17	10/02/22 04:26	10
m-Xylene & p-Xylene	2.35		0.0398		mg/Kg		09/28/22 16:17	10/02/22 04:26	10
o-Xylene	0.839		0.0199		mg/Kg		09/28/22 16:17	10/02/22 04:26	10
Xylenes, Total	3.19		0.0398		mg/Kg		09/28/22 16:17	10/02/22 04:26	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130	09/28/22 16:17	10/02/22 04:26	10
1,4-Difluorobenzene (Surr)	74		70 - 130	09/28/22 16:17	10/02/22 04:26	10
_						

Method: Total BTEX - Total BTEX	Calculation						
Analyte	Result Qualifi	ier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	3.58	0.0398	mg/Kg			10/01/22 19:48	1

Method: 8015 NM - Diesel Range C	Organics (DRO) (GC)						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1340	49.9	mg/Kg			09/23/22 12:25	1

Method: 8015B NM - Diesel Rang	e Organics (DRO) (GC)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	174	49.9		mg/Kg		09/21/22 15:33	09/22/22 03:53	1
Diesel Range Organics (Over C10-C28)	1020	49.9	İ	mg/Kg		09/21/22 15:33	09/22/22 03:53	1
Oll Range Organics (Over	142	49.9	ı	mg/Kg		09/21/22 15:33	09/22/22 03:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	09/21/22 15:33	09/22/22 03:53	1
o-Terphenyl	110		70 - 130	09/21/22 15:33	09/22/22 03:53	1

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C28-C36)

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

RL

4.99

MDL Unit

mg/Kg

D

Prepared

Client Sample ID: SW-75 (0-4.5')

Client Sample ID: SW-76 (0-4.5')

Date Collected: 09/19/22 00:00

Date Received: 09/20/22 10:22

Sample Depth: 0 - 4.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22 Sample Depth: 0 - 4.5

Analyte

Chloride

REMOVED FROM ANALYSIS TABLE

REMOVED FROM

ANALYSIS TABLE

Result Qualifier

228

3960

Lab Sample ID: 890-3011-29

Analyzed

09/23/22 21:25

Lab Sample ID: 890-3011-30

Matrix: Solid

Matrix: Solid

Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *-	0.00201		mg/Kg		09/28/22 16:17	10/02/22 02:23	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/28/22 16:17	10/02/22 02:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/28/22 16:17	10/02/22 02:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/28/22 16:17	10/02/22 02:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/28/22 16:17	10/02/22 02:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/28/22 16:17	10/02/22 02:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				09/28/22 16:17	10/02/22 02:23	1
1,4-Difluorobenzene (Surr)	95		70 - 130				09/28/22 16:17	10/02/22 02:23	1
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	0.00400	1.1	0.00402		mg/Kg			10/01/22 19:48	1
Total BTEX	<0.00402	U	0.00402		mg/rtg			10/01/22 10.40	•
Total BTEX : 			0.00402		mg/rtg			10/01/22 10.40	
	e Organics (DR		0.00402 RL	MDL		D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)		MDL		<u>D</u>	Prepared		Dil Fac
Method: 8015 NM - Diesel Range Analyte	e Organics (DR) Result 60.1	O) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	
Method: 8015 NM - Diesel Range Analyte Total TPH	e Organics (DR) Result 60.1	O) (GC) Qualifier	RL	MDL	Unit mg/Kg	D	Prepared Prepared	Analyzed	
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang	e Organics (DR) Result 60.1	O) (GC) Qualifier RO) (GC) Qualifier	RL		Unit mg/Kg		<u> </u>	Analyzed 09/23/22 12:25	1 Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	e Organics (DR) Result 60.1 ge Organics (DI) Result	O) (GC) Qualifier RO) (GC) Qualifier			Unit mg/Kg		Prepared	Analyzed 09/23/22 12:25 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	e Organics (DR) Result 60.1 ge Organics (DI) Result <50.0	O) (GC) Qualifier RO) (GC) Qualifier U	RL 50.0		Unit mg/Kg Unit mg/Kg		Prepared 09/21/22 15:33	Analyzed 09/23/22 12:25 Analyzed 09/22/22 04:14	1
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	e Organics (DR) Result 60.1 ge Organics (DI) Result <50.0 60.1	O) (GC) Qualifier RO) (GC) Qualifier U	RL 50.0 S0.0 S0.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 09/21/22 15:33 09/21/22 15:33	Analyzed 09/23/22 12:25 Analyzed 09/22/22 04:14 09/22/22 04:14	1 Dil Fac 1 1
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)	e Organics (DR) Result 60.1 ge Organics (DI) Result <50.0 60.1 <50.0	O) (GC) Qualifier RO) (GC) Qualifier U	RL 50.0 50.0 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 09/21/22 15:33 09/21/22 15:33	Analyzed 09/23/22 12:25 Analyzed 09/22/22 04:14 09/22/22 04:14	1 Dil Fac 1 1
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	e Organics (DR) Result 60.1 ge Organics (DI) Result <50.0 60.1 <50.0 %Recovery	O) (GC) Qualifier RO) (GC) Qualifier U	RL 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 09/21/22 15:33 09/21/22 15:33 09/21/22 15:33 Prepared	Analyzed 09/23/22 12:25 Analyzed 09/22/22 04:14 09/22/22 04:14 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	e Organics (DR) Result 60.1 ge Organics (DI) Result <50.0 60.1 <50.0 %Recovery 99 114	O) (GC) Qualifier RO) (GC) Qualifier U	RL 50.0 RL 50.0 50.0 50.0 Limits 70 - 130		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 09/21/22 15:33 09/21/22 15:33 09/21/22 15:33 Prepared 09/21/22 15:33	Analyzed 09/23/22 12:25 Analyzed 09/22/22 04:14 09/22/22 04:14 Analyzed 09/22/22 04:14	Dil Fac

09/23/22 21:39

49.6

mg/Kg

Chloride

Lab Sample ID: 890-3011-31

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-3011-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-77 (0-4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 0 - 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *-	0.00200		mg/Kg		09/28/22 16:17	10/02/22 02:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:17	10/02/22 02:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:17	10/02/22 02:44	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/28/22 16:17	10/02/22 02:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:17	10/02/22 02:44	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/28/22 16:17	10/02/22 02:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				09/28/22 16:17	10/02/22 02:44	1
1,4-Difluorobenzene (Surr)	101		70 - 130				09/28/22 16:17	10/02/22 02:44	1
Method: Total BTEX - Total BTE)	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			10/01/22 19:48	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	81.7		49.9		mg/Kg			09/23/22 12:25	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/21/22 15:33	09/22/22 04:35	1
Diesel Range Organics (Over C10-C28)	81.7		49.9		mg/Kg		09/21/22 15:33	09/22/22 04:35	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/21/22 15:33	09/22/22 04:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				09/21/22 15:33	09/22/22 04:35	1
o-Terphenyl	113		70 - 130				09/21/22 15:33	09/22/22 04:35	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

24.8

mg/Kg

3710

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09/23/22 21:44

Chloride

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

atrix: Solid				Prep Type: Total/NA
				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-19417-A-1-E MS	Matrix Spike	109	105	
880-19417-A-1-F MSD	Matrix Spike Duplicate	112	100	
390-3011-1	H-1 (0-2')	110	95	
390-3011-1 MS	H-1 (0-2')	108	90	
890-3011-1 MSD	H-1 (0-2')	119	97	
890-3011-2	H-2 (0-2')	125	99	
890-3011-3	H-3 (0-2')	113	96	
390-3011-4	H-4 (0-2')	113	91	
390-3011-5	H-5 (0-2')	116	95	
390-3011-6	H-6 (0-2')	118	95	
390-3011-7	H-7 (0-2')	122	88	
390-3011-8	BH-191 (8')	113	90	
390-3011-9	BH-192 (8')	123	99	
390-3011-10	BH-193 (8')	123	91	
390-3011-11	BH-194 (8')	118	92	
390-3011-12	BH-195 (8')	120	9 S1-	
390-3011-13	BH-196 (4.5')	122	90	
890-3011-14	BH-197 (4.5')	126	91	
390-3011-15	BH-198 (4.5')	121	94	
390-3011-16	BH-199 (4.5')	126	93	
390-3011-17	BH-200 (4.5')	135 S1+	87	
390-3011-18	BH-201 (4.5')	230 S1+	98	
390-3011-19	BH-202 (4.5')	126	94	
390-3011-20	BH-203 (4.5')	120	92	
90-3011-21	BH-204 (4.5')	789 S1+	96	
390-3011-22	BH-205 (4.5')	155 S1+	84	
390-3011-23	BH-206 (4.5')	126	65 S1-	
390-3011-24	BH-207 (4.5')	117	104	
390-3011-25	SW-62 (8-13')	112	105	
390-3011-26	SW-72 (0-8')	108	96	
390-3011-27	SW-73 (6-13')	108	98	
390-3011-28	SW-74 (8-13')	108	99	
390-3011-29	SW-75 (0-4.5')	137 S1+	74	
390-3011-30	SW-76 (0-4.5')	110	95	
390-3011-31	SW-77 (0-4.5')	108	101	
890-3015-A-1-E MS	Matrix Spike	101	94	
890-3015-A-1-F MSD	Matrix Spike Duplicate	108	107	
CS 880-35621/1-A	Lab Control Sample	110	99	
LCS 880-35625/1-A	Lab Control Sample	109	100	
_CS 880-35724/1-A	Lab Control Sample	76	73	
_CSD 880-35621/2-A	Lab Control Sample Dup	106	90	
LCSD 880-35625/2-A	Lab Control Sample Dup	104	99	
_CSD 880-35724/2-A	Lab Control Sample Dup	128	123	
MB 880-35621/5-A	Method Blank	76	89	
MB 880-35625/5-A	Method Blank	101	114	
MB 880-35628/5-A	Method Blank	105	105	
MB 880-35692/5-A	Method Blank	99	83	
MB 880-35720/5-A	Method Blank	99 70	92	
VID 000-001 Z0/0-A	ואוכנווטע טומווול	70	92	

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr) DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

•				Percent Surrogate Recovery (Acceptance Limits)
		1001	ОТРН1	recent ourrogate necovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-19485-A-21-F MS	Matrix Spike	97	102	· —— —— —— —— ——
880-19485-A-21-G MSD	Matrix Spike Duplicate	97	101	
890-3010-A-2-C MS	Matrix Spike	90	88	
890-3010-A-2-D MSD	Matrix Spike Duplicate	103	99	
890-3011-1	H-1 (0-2')	88	101	
890-3011-1 MS	H-1 (0-2')	98	94	
890-3011-1 MSD	H-1 (0-2')	96	93	
890-3011-2	H-2 (0-2')	86	94	
890-3011-3	H-3 (0-2')	107	118	
890-3011-4	H-4 (0-2')	105	115	
890-3011-5	H-5 (0-2')	95	104	
890-3011-6	H-6 (0-2')	115	126	
890-3011-7	H-7 (0-2')	88	93	
890-3011-8	BH-191 (8')	110	119	
890-3011-9	BH-192 (8')	82	92	
890-3011-10	BH-193 (8')	88	94	
890-3011-11	BH-194 (8')	106	117	
890-3011-12	BH-195 (8')	87	94	
890-3011-13	BH-196 (4.5')	96	102	
890-3011-14	BH-197 (4.5')	97	111	
890-3011-15	BH-198 (4.5')	88	95	
890-3011-16	BH-199 (4.5')	90	100	
890-3011-17	BH-200 (4.5')	89	90	
890-3011-18	BH-201 (4.5')	96	94	
890-3011-19	BH-202 (4.5')	105	98	
890-3011-19 MS	BH-202 (4.5')	110	87	
890-3011-19 MSD	BH-202 (4.5')	112	89	
890-3011-20	BH-203 (4.5')	117	110	
890-3011-21	BH-204 (4.5')	91	94	
890-3011-22	BH-205 (4.5')	120	115	
890-3011-23	BH-206 (4.5')	95	94	
890-3011-24	BH-207 (4.5')	104	111	
890-3011-25	SW-62 (8-13')	110	115	
890-3011-26	SW-72 (0-8')	115	121	
890-3011-27	SW-73 (6-13')	108	123	
890-3011-28	SW-74 (8-13')	121	132 S1+	
890-3011-29	SW-75 (0-4.5')	101	110	
890-3011-30	SW-76 (0-4.5')	99	114	
890-3011-31	SW-77 (0-4.5')	101	113	
LCS 880-35103/2-A	Lab Control Sample	91	99	
LCS 880-35130/2-A	Lab Control Sample	95	96	
LCS 880-35172/2-A	Lab Control Sample	99	105	
LCS 880-35172/2-A LCS 880-35262/2-A	Lab Control Sample		96	
LCS 880-35262/2-A LCSD 880-35103/3-A	Lab Control Sample Dup	107 93	96 105	
LCSD 880-35103/3-A LCSD 880-35130/3-A	Lab Control Sample Dup Lab Control Sample Dup	100	103	
LCSD 880-35130/3-A LCSD 880-35172/3-A	Lab Control Sample Dup	100	103	

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-3011-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCSD 880-35262/3-A	Lab Control Sample Dup	109	93	
MB 880-35103/1-A	Method Blank	116	134 S1+	
MB 880-35130/1-A	Method Blank	110	124	
MB 880-35172/1-A	Method Blank	120	139 S1+	
MB 880-35262/1-A	Method Blank	132 S1+	124	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = 0-Terphenyl				

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QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-35621/5-A

Matrix: Solid

Analysis Batch: 35814

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35621

		MB	MB							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 06:24	1
	Toluene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 06:24	1
	Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 06:24	1
	m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/28/22 14:59	10/01/22 06:24	1
	o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 06:24	1
	Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/28/22 14:59	10/01/22 06:24	1
ı										

MB MB

MD MD

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76	70 - 130	09/28/22 14:59	10/01/22 06:24	1
1,4-Difluorobenzene (Surr)	89	70 - 130	09/28/22 14:59	10/01/22 06:24	1

Lab Sample ID: LCS 880-35621/1-A

Matrix: Solid

Analysis Batch: 35814

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35621

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.07727 mg/Kg 77 70 - 130 Toluene 0.100 0.06855 *mg/Kg 69 70 - 130 0.100 0.07924 79 Ethylbenzene mg/Kg 70 - 130 0.200 79 70 - 130 m-Xylene & p-Xylene 0.1579 mg/Kg 0.100 0.08291 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)			70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-35621/2-A

Matrix: Solid

Analysis Batch: 35814

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35621

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07697		mg/Kg		77	70 - 130	0	35
Toluene	0.100	0.07904		mg/Kg		79	70 - 130	14	35
Ethylbenzene	0.100	0.07910		mg/Kg		79	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.1571		mg/Kg		79	70 - 130	1	35
o-Xylene	0.100	0.08282		mg/Kg		83	70 - 130	0	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: 890-3011-1 MS

Matrix: Solid

Analysis Batch: 35814

Client Sample ID: H-1 (0-2')

Prep Type: Total/NA

Prep Batch: 35621

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.101	0.09391		mg/Kg		93	70 - 130	
Toluene	<0.00199	U *-	0.101	0.09305		mg/Kg		92	70 - 130	

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

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ab Sample ID: 890-3011-1 MS	Client Sample ID: H-1 (0-2'))
atrix: Solid	Prep Type: Total/NA	L
nalysis Batch: 35814	Prep Batch: 35621	

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00199	U	0.101	0.09436		mg/Kg		94	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1865		mg/Kg		93	70 - 130	
o-Xylene	< 0.00199	U	0.101	0.09355		mg/Kg		93	70 - 130	
	MS	MS								

Surrogate	%Recovery Qu	ualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: 890-3011-1 MSD

m-Xylene & p-Xylene

o-Xylene

Matrix: Solid										Prep Type: Total/NA					
Analysis Batch: 35814									Prep	Batch:	35621				
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD				
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit				
Benzene	<0.00199	U	0.0996	0.09949		mg/Kg		100	70 - 130	6	35				
Toluene	<0.00199	U *-	0.0996	0.1008		mg/Kg		101	70 - 130	8	35				
Ethylbenzene	<0.00199	U	0.0996	0.09957		mg/Kg		100	70 - 130	5	35				

0.1958

0.09977

mg/Kg

mg/Kg

0.199

0.0996

MSD MSD

MB MB

MR MR

<0.00398 U

<0.00199 U

Surrogate	%Recovery Qualifi	ier Limits
4-Bromofluorobenzene (Surr)	119	70 - 130
1.4-Difluorobenzene (Surr)	97	70 - 130

Lab Sample ID: MB 880-35625/5-A

Matrix: Solid

Analysis Batch: 35815

Client Sample ID: Method Blank **Prep Type: Total/NA** Prep Batch: 35625

70 - 130

70 - 130

100

Client Sample ID: H-1 (0-2')

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:17	10/01/22 20:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:17	10/01/22 20:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:17	10/01/22 20:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/28/22 16:17	10/01/22 20:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:17	10/01/22 20:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/28/22 16:17	10/01/22 20:00	1

	W.D	WD				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	09/28/22 16:17	10/01/22 20:00	1
1,4-Difluorobenzene (Surr)	114		70 - 130	09/28/22 16:17	10/01/22 20:00	1

Lab Sample ID: LCS 880-35625/1-A

Matrix: Solid

Analysis Batch: 35815

Client	Sample ID: Lab Control Sample
	Prep Type: Total/NA
	Prep Batch: 35625

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.100	0.06312	*_	mg/Kg		63	70 - 130
Toluene	0.100	0.07231		mg/Kg		72	70 - 130
Ethylbenzene	0.100	0.07030		mg/Kg		70	70 - 130
m-Xylene & p-Xylene	0.200	0.1471		mg/Kg		74	70 - 130

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35

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-3011-1 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-35625/1-A **Matrix: Solid**

Lab Sample ID: LCSD 880-35625/2-A

Analysis Batch: 35815

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 35625

LCS LCS %Rec Result Qualifier Unit %Rec Limits D

Analyte Added 0.100 0.07531 75 70 - 130 o-Xylene mg/Kg LCS LCS

Spike

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 109 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 100

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Matrix: Solid Analysis Batch: 35815

Prep Batch: 35625

LCSD LCSD RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD D Benzene 0.100 0.06587 mg/Kg 66 70 - 130 4 Toluene 0.100 0.07114 mg/Kg 71 70 - 130 2 Ethylbenzene 0.100 0.07179 mg/Kg 72 70 - 130 2 m-Xylene & p-Xylene 0.200 0.1452 mg/Kg 73 70 - 130 35 0.100 0.07431 74 70 - 130 35 o-Xylene mg/Kg

Limit 35 35 35

LCSD LCSD

105

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 104 70 - 130 1,4-Difluorobenzene (Surr) 99 70 - 130

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 35625

Lab Sample ID: 880-19417-A-1-E MS **Matrix: Solid**

Analysis Batch: 35815

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Surrogate

Matrix: Solid

MS MS Sample Sample Spike %Rec Result Qualifier Result Qualifier Added Unit D %Rec Limits 0.101 0.09573 95 70 - 130 mg/Kg

Analyte Benzene <0.00201 U *-Toluene < 0.00201 0.101 0.09812 mg/Kg 98 70 - 130 Ethylbenzene <0.00201 U 0.101 0.08958 mg/Kg 89 70 - 130 m-Xylene & p-Xylene < 0.00402 U 0.201 0.1802 mg/Kg 90 70 - 130 o-Xylene <0.00201 U 0.101 0.09000 mg/Kg 89 70 - 130

MS MS %Recovery Qualifier Limits 109 70 - 130

70 - 130

Lab Sample ID: 880-19417-A-1-F MSD

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 35625

Analysis Batch: 35815 Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Result Qualifier %Rec Added Limit Analyte Unit Limits RPD Benzene <0.00201 U *-0.0990 0.09175 mg/Kg 93 70 - 130 35 4 0.0990 Toluene <0.00201 U 0 1021 103 70 - 13035 mg/Kg Ethylbenzene <0.00201 U 0.0990 0.1028 mg/Kg 104 70 - 130 14 35 m-Xylene & p-Xylene 0.198 0.2097 < 0.00402 U mg/Kg 106 70 - 13015 35 o-Xylene <0.00201 U 0.0990 0.1043 mg/Kg 105 70 - 130 15 35

Job ID: 890-3011-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-19417-A-1-F MSD

Matrix: Solid

Analysis Batch: 35815

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 35625

MSD MSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 112 70 - 130 1,4-Difluorobenzene (Surr) 100 70 - 130

Lab Sample ID: MB 880-35628/5-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 35815

Prep Type: Total/NA

Prep Batch: 35628

MB MB

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 09/28/22 16:25 <0.00200 U 0.00200 10/01/22 06:46 Benzene mg/Kg Toluene <0.00200 U 0.00200 mg/Kg 09/28/22 16:25 10/01/22 06:46 Ethylbenzene <0.00200 U 0.00200 09/28/22 16:25 10/01/22 06:46 mg/Kg m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 09/28/22 16:25 10/01/22 06:46 o-Xylene <0.00200 U 0.00200 mg/Kg 09/28/22 16:25 10/01/22 06:46 Xylenes, Total <0.00400 U 0.00400 mg/Kg 09/28/22 16:25 10/01/22 06:46

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105	70 - 130	09/28/22 16:25	10/01/22 06:46	1
1,4-Difluorobenzene (Surr)	105	70 - 130	09/28/22 16:25	10/01/22 06:46	1

Lab Sample ID: MB 880-35692/5-A

Matrix: Solid

Analysis Batch: 35890

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35692

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/29/22 11:56	10/02/22 22:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/29/22 11:56	10/02/22 22:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/29/22 11:56	10/02/22 22:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/29/22 11:56	10/02/22 22:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/29/22 11:56	10/02/22 22:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/29/22 11:56	10/02/22 22:18	1

мв мв

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99	70 - 130	09/29/22 11:56	10/02/22 22:18	1
1,4-Difluorobenzene (Surr)	83	70 - 130	09/29/22 11:56	10/02/22 22:18	1

Lab Sample ID: MB 880-35720/5-A

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Matrix: Solid

Analysis Batch: 35814

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35720

	MB	MB	
Analyte	Result	Qualifier	
	-0.0000		

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/29/22 15:53	09/30/22 16:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/29/22 15:53	09/30/22 16:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/29/22 15:53	09/30/22 16:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/29/22 15:53	09/30/22 16:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/29/22 15:53	09/30/22 16:57	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/29/22 15:53	09/30/22 16:57	1

Job ID: 890-3011-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-35720/5-A

Matrix: Solid

Analysis Batch: 35814

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35720

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130	09/29/22 15:53	09/30/22 16:57	1
1,4-Difluorobenzene (Surr)	92		70 - 130	09/29/22 15:53	09/30/22 16:57	1

Lab Sample ID: MB 880-35724/5-A

Matrix: Solid

Analysis Batch: 35890

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 35724

MB MB

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac <0.00200 U 0.00200 09/29/22 16:18 10/03/22 08:58 Benzene mg/Kg Toluene <0.00200 U 0.00200 mg/Kg 09/29/22 16:18 10/03/22 08:58 Ethylbenzene <0.00200 U 0.00200 09/29/22 16:18 10/03/22 08:58 mg/Kg m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 09/29/22 16:18 10/03/22 08:58 o-Xylene <0.00200 U 0.00200 mg/Kg 09/29/22 16:18 10/03/22 08:58 Xylenes, Total <0.00400 U 0.00400 mg/Kg 09/29/22 16:18 10/03/22 08:58

MB MB

Surrogate	%Recovery Q	Qualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100	70 - 130	09/29/22 16:18	10/03/22 08:58	1
1,4-Difluorobenzene (Surr)	76	70 - 130	09/29/22 16:18	10/03/22 08:58	1

Lab Sample ID: LCS 880-35724/1-A

Matrix: Solid

Analysis Batch: 35890

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35724

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07829		mg/Kg		78	70 - 130	
Toluene	0.100	0.08089		mg/Kg		81	70 - 130	
Ethylbenzene	0.100	0.07734		mg/Kg		77	70 - 130	
m-Xylene & p-Xylene	0.200	0.1621		mg/Kg		81	70 - 130	
o-Xylene	0.100	0.08300		mg/Kg		83	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	76	70 - 130
1,4-Difluorobenzene (Surr)	73	70 - 130

Lab Sample ID: LCSD 880-35724/2-A

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Matrix: Solid

Analysis Batch: 35890

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 35724

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1318	*+ *1	mg/Kg		132	70 - 130	51	35
Toluene	0.100	0.1408	*+ *1	mg/Kg		141	70 - 130	54	35
Ethylbenzene	0.100	0.1312	*+ *1	mg/Kg		131	70 - 130	52	35
m-Xylene & p-Xylene	0.200	0.2759	*+ *1	mg/Kg		138	70 - 130	52	35
o-Xylene	0.100	0.1422	*+ *1	mg/Kg		142	70 - 130	53	35

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 128 70 - 130

QC Sample Results

Job ID: 890-3011-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-35724/2-A

Matrix: Solid

Analysis Batch: 35890

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35724

LCSD LCSD

%Recovery Qualifier Surrogate Limits 1,4-Difluorobenzene (Surr) 123 70 - 130

Lab Sample ID: 890-3015-A-1-E MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 35890

Prep Type: Total/NA

Prep Batch: 35724

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U *+ *1	0.0998	0.09073		mg/Kg		91	70 - 130	
Toluene	<0.00200	U *+ *1	0.0998	0.09593		mg/Kg		96	70 - 130	
Ethylbenzene	<0.00200	U *+ *1	0.0998	0.08487		mg/Kg		85	70 - 130	
m-Xylene & p-Xylene	<0.00401	U *+ *1	0.200	0.1756		mg/Kg		88	70 - 130	
o-Xylene	<0.00200	U *+ *1	0.0998	0.09418		mg/Kg		94	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
1,4-Difluorobenzene (Surr)	94	70 - 130

Lab Sample ID: 890-3015-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 35890

Prep Type: Total/NA Prep Batch: 35724

Spike MSD MSD %Rec **RPD** Sample Sample Limit Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Benzene <0.00200 U *+ *1 0.0990 0.09916 100 70 - 130 35 mg/Kg 9 Toluene <0.00200 U *+ *1 0.0990 0.1009 mg/Kg 102 70 - 130 35 5 Ethylbenzene <0.00200 U *+ *1 0.0990 0.08894 mg/Kg 90 70 - 130 35 <0.00401 U*+*1 0.198 92 70 - 130 m-Xylene & p-Xylene 0.1820 mg/Kg 35 o-Xylene <0.00200 U*+*1 0.0990 0.09773 mg/Kg 70 - 130 35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-35103/1-A

Analysis Batch: 35007

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 35103

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		09/21/22 15:33	09/21/22 19:44	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		09/21/22 15:33	09/21/22 19:44	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/21/22 15:33	09/21/22 19:44	1

мв мв

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	09/21/22 15:33	09/21/22 19:44	1
o-Terphenyl	134	S1+	70 - 130	09/21/22 15:33	09/21/22 19:44	1

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Matrix: Solid

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Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Job ID: 890-3011-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-35103/2-A

Matrix: Solid

Analysis Batch: 35007 Prep Batch: 35103 Spike LCS LCS Added Analyte Result Qualifier Unit %Rec Limits D Gasoline Range Organics 1000 1038 mg/Kg 104 70 - 130 (GRO)-C6-C10 1000 978.2 70 - 130 Diesel Range Organics (Over mg/Kg 98

C10-C28)

LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 70 - 130 91 o-Terphenyl 99 70 - 130

Lab Sample ID: LCSD 880-35103/3-A

Matrix: Solid

Analysis Batch: 35007

Prep Batch: 35103 Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 Gasoline Range Organics 946.6 mg/Kg 95 70 - 130 9 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1014 mg/Kg 101 70 - 130 4 20

C10-C28)

LCSD LCSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 93 70 - 130 o-Terphenyl 105 70 - 130

Lab Sample ID: 880-19485-A-21-F MS

Matrix: Solid

Analysis Batch: 35007

Prep Batch: 35103 Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits <49.9 U Gasoline Range Organics 996 962.8 94 70 - 130 mg/Kg (GRO)-C6-C10 996 1097 108 70 - 130 Diesel Range Organics (Over <49.9 U mg/Kg

C10-C28)

MS MS Qualifier Limits Surrogate %Recovery 1-Chlorooctane 97 70 - 130 102 70 - 130 o-Terphenyl

Lab Sample ID: 880-19485-A-21-G MSD

Matrix: Solid

nalysis Batch: 25007

Analysis Batch: 35007									Prep	Batch:	35103
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	912.2		mg/Kg		89	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1095		mg/Kg		108	70 - 130	0	20

MSD MSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 97

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-3011-1 SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-19485-A-21-G MSD

Matrix: Solid

Analysis Batch: 35007

Analysis Batch: 35122

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 35103

MSD MSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 101 70 - 130

Lab Sample ID: MB 880-35130/1-A Client Sample ID: Method Blank **Matrix: Solid**

Prep Type: Total/NA

Prep Batch: 35130

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/22/22 08:45	09/22/22 19:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/22/22 08:45	09/22/22 19:31	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/22/22 08:45	09/22/22 19:31	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

70 - 130

124 70 - 130 09/22/22 08:45 o-Terphenyl Lab Sample ID: LCS 880-35130/2-A

110

Client Sample ID: Lab Control Sample

09/22/22 19:31

09/22/22 19:31

09/22/22 08:45

Prep Type: Total/NA

Analysis Batch: 35122 Prep Batch: 35130 Spike LCS LCS

Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 914.4 mg/Kg 91 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 844.8 mg/Kg 84 70 - 130

C10-C28)

1-Chlorooctane

Matrix: Solid

LCS LCS Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 95 o-Terphenyl 96 70 - 130

Lab Sample ID: LCSD 880-35130/3-A Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 35122 Prep Batch: 35130 Calle LCCD LCCD

	эріке	LCSD	LCSD				%Rec		KPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	883.3		mg/Kg		88	70 - 130	3	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	908.3		mg/Kg		91	70 - 130	7	20	
C10-C28)										

LCSD LCSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 100 70 - 130 103 70 - 130 o-Terphenyl

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-3011-1 MS

Matrix: Solid

Analysis Batch: 35122

Client Sample ID: H-1 (0-2') Prep Type: Total/NA

Client Sample ID: H-1 (0-2')

Prep Type: Total/NA

Prep Batch: 35130

Sample Sample Spike MS MS Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics <49.9 U 996 923.1 mg/Kg 91 70 - 130 (GRO)-C6-C10 996 Diesel Range Organics (Over <49.9 U 1069 mg/Kg 107 70 - 130 C10-C28)

MS MS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: 890-3011-1 MSD

Matrix: Solid

Analysis Batch: 35122

Prep Batch: 35130 Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit <49.9 U 999 927.6 91 70 - 130 0 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 999 1052 mg/Kg 105 70 - 130 2 20

C10-C28)

MSD MSD %Recovery Qualifier Limits Surrogate 1-Chlorooctane 96 70 - 130 o-Terphenyl 93 70 - 130

Lab Sample ID: MB 880-35172/1-A

Matrix: Solid

Analysis Batch: 35220

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 35172

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		09/22/22 11:26	09/23/22 20:35	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		09/22/22 11:26	09/23/22 20:35	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/22/22 11:26	09/23/22 20:35	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	09/22/22 11:26	09/23/22 20:35	1
o-Terphenyl	139	S1+	70 - 130	09/22/22 11:26	09/23/22 20:35	1

Lab Sample ID: LCS 880-35172/2-A

Matrix: Solid

Analysis Batch: 35220

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35172

	Spike	LCS	LCS			%Rec	
Analyte	Added	Result	Qualifier	Unit	D %Rec	Limits	
Gasoline Range Organics	1000	960.3		mg/Kg	96	70 - 130	
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	891.9		mg/Kg	89	70 - 130	
C10-C28)							

Job ID: 890-3011-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-35172/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 35220

Prep Type: Total/NA

Prep Batch: 35172

LCS LCS Limits

Surrogate %Recovery Qualifier 1-Chlorooctane 99 70 - 130 o-Terphenyl 105 70 - 130

Lab Sample ID: LCSD 880-35172/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 35220 Prep Batch: 35172

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 960.5 96 70 - 130O 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 951.2 95 mg/Kg 70 - 1306 20 C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 106 108 70 - 130 o-Terphenyl

Lab Sample ID: 890-3010-A-2-C MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 35220

Prep Type: Total/NA Prep Batch: 35172 Sample Sample MS MS Spike

Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits D Gasoline Range Organics <49.9 U 996 887.9 mg/Kg 87 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 996 998.1 mg/Kg 100 70 - 130

C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 90 o-Terphenyl 88 70 - 130

Lab Sample ID: 890-3010-A-2-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA Analysis Batch: 35220 Prep Batch: 35172

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit U 999 1050 103 Gasoline Range Organics <49.9 mg/Kg 70 - 130 17 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 999 1135 mg/Kg 114 70 - 130 13 20

C10-C28)

MSD MSD Qualifier Surrogate %Recovery Limits 1-Chlorooctane 103 70 - 130 99 70 - 130 o-Terphenyl

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-35262/1-A

Matrix: Solid

Analysis Batch: 35322

Client	Sample	ID:	Method	Blank

Prep Type: Total/NA

Prep Batch: 35262

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		09/23/22 11:03	09/24/22 10:38	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		09/23/22 11:03	09/24/22 10:38	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/23/22 11:03	09/24/22 10:38	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130				09/23/22 11:03	09/24/22 10:38	1
o-Terphenyl	124		70 - 130				09/23/22 11:03	09/24/22 10:38	1
	Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Analyte Result Gasoline Range Organics <50.0	Gasoline Range Organics <50.0	Analyte Result Qualifier RL Gasoline Range Organics <50.0	Analyte Result Qualifier RL MDL Gasoline Range Organics <50.0 U	Analyte Result Qualifier RL MDL Unit Gasoline Range Organics <50.0	Analyte Result Qualifier RL MDL Unit D Gasoline Range Organics <50.0	Analyte Result Qualifier RL MDL Unit D Prepared Gasoline Range Organics <50.0	Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Gasoline Range Organics <50.0

Lab Sample ID: LCS 880-35262/2-A

Matrix: Solid

Analysis Batch: 35322

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 35262

	Spike	LCS LCS	5			%Rec	
Analyte	Added	Result Qua	lifier Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	887.2	mg/Kg		89	70 - 130	
(GRO)-C6-C10 Diesel Range Organics (Over	1000	1002	mg/Kg		100	70 - 130	
C10-C28)							

LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 107 70 - 130 o-Terphenyl 96 70 - 130

Lab Sample ID: LCSD 880-35262/3-A

Matrix: Solid

Analysis Batch: 35322

Client Sample ID: Lal	Control Sample Dup
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Prep Type: Total/NA

Prep Batch: 35262

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	921.2		mg/Kg		92	70 - 130	4	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	973.8		mg/Kg		97	70 - 130	3	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	109	70 - 130
o-Terphenyl	93	70 - 130

Lab Sample ID: 890-3011-19 MS Client Sample ID: BH-202 (4.5')

Matrix: Solid

Analysis Batch: 35322

Prep Type: Total/NA Prep Batch: 35262

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	996	861.2	-	mg/Kg		86	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	996	965.0		mg/Kg		92	70 - 130	
C10-C28)										

Job ID: 890-3011-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-3011-19 MS **Matrix: Solid**

Analysis Batch: 35322

Client Sample ID: BH-202 (4.5') Prep Type: Total/NA

Prep Batch: 35262

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 110 70 - 130 o-Terphenyl 87 70 - 130

Lab Sample ID: 890-3011-19 MSD Client Sample ID: BH-202 (4.5')

Matrix: Solid

Analysis Batch: 35322

Prep Type: Total/NA

Prep Batch: 35262

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit <49.9 U 999 892.1 89 70 - 13020 Gasoline Range Organics mg/Kg 4 (GRO)-C6-C10 Diesel Range Organics (Over 999 971.0 93 <49.9 U mg/Kg 70 - 13020 C10-C28)

MSD MSD

%Recovery Surrogate Qualifier Limits 70 - 130 1-Chlorooctane 112 89 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-35024/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 35313

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Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed Chloride 5.00 <5.00 U mg/Kg 09/23/22 19:42

Lab Sample ID: LCS 880-35024/2-A

Matrix: Solid

Analysis Batch: 35313

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 246.5 mg/Kg 99 90 - 110

Lab Sample ID: LCSD 880-35024/3-A

Matrix: Solid

Analysis Batch: 35313

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	247.9		mg/Kg		99	90 - 110	1	20

Lab Sample ID: 890-3011-17 MS

Matrix: Solid

Analysis Batch: 35313

ı	Allalysis Datcil. 33313										
		Sample	Sample	Spike	MS	MS				%Rec	
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
ı	Chloride	3220		1260	4518		mg/Kg		104	90 - 110	

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Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Client Sample ID: BH-200 (4.5')

Prep Type: Soluble

Job ID: 890-3011-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-3011-17 MSD Client Sample ID: BH-200 (4.5') **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 35313

Sample Sample Spike MSD MSD RPD %Rec Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 3220 1260 4521 mg/Kg 104 90 - 110 20

Lab Sample ID: 890-3011-27 MS Client Sample ID: SW-73 (6-13')

Matrix: Solid Prep Type: Soluble

Analysis Batch: 35313 Sample Sample Spike MS MS %Rec

Qualifier Added Analyte Result Result Qualifier Unit D %Rec Limits Chloride 394 252 632.7 mg/Kg 95 90 - 110

Lab Sample ID: 890-3011-27 MSD Client Sample ID: SW-73 (6-13')

Matrix: Solid Prep Type: Soluble

Analysis Batch: 35313

MSD MSD RPD Spike %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 394 252 632.9 mg/Kg 90 - 110

Lab Sample ID: MB 880-35023/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 35314

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Result Qualifier MDL Unit Analyte RL Prepared Analyzed Dil Fac 5.00 09/23/22 22:29 Chloride <5.00 mg/Kg

Lab Sample ID: LCS 880-35023/2-A Client Sample ID: Lab Control Sample **Prep Type: Soluble**

Matrix: Solid Analysis Batch: 35314

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 246.3 mg/Kg 99 90 - 110

Lab Sample ID: LCSD 880-35023/3-A Client Sample ID: Lab Control Sample Dup Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 35314

Spike LCSD LCSD %Rec RPD Added RPD Analyte Result Qualifier Unit D %Rec Limits Limit Chloride 250 247 2 mg/Kg 90 - 110

Lab Sample ID: 890-3011-7 MS Client Sample ID: H-7 (0-2')

Matrix: Solid

Analysis Batch: 35314

MS MS Sample Sample Spike %Rec Added Result Qualifier Result Qualifier Limits Analyte Unit D %Rec Chloride 26.7 252 284.1 mg/Kg 102 90 - 110

Lab Sample ID: 890-3011-7 MSD Client Sample ID: H-7 (0-2')

Matrix: Solid

Analysis Batch: 35314

Spike MSD MSD %Rec RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 26.7 252 284.2 mg/Kg 102 90 - 110 20

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Prep Type: Soluble

Prep Type: Soluble

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

GC VOA

Prep Batch: 35621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-3011-1	H-1 (0-2')	Total/NA	Solid	5035	
890-3011-2	H-2 (0-2')	Total/NA	Solid	5035	
890-3011-3	H-3 (0-2')	Total/NA	Solid	5035	
890-3011-4	H-4 (0-2')	Total/NA	Solid	5035	
890-3011-5	H-5 (0-2')	Total/NA	Solid	5035	
890-3011-6	H-6 (0-2')	Total/NA	Solid	5035	
890-3011-7	H-7 (0-2')	Total/NA	Solid	5035	
890-3011-8	BH-191 (8')	Total/NA	Solid	5035	
890-3011-9	BH-192 (8')	Total/NA	Solid	5035	
890-3011-10	BH-193 (8')	Total/NA	Solid	5035	
890-3011-11	BH-194 (8')	Total/NA	Solid	5035	
890-3011-12	BH-195 (8')	Total/NA	Solid	5035	
890-3011-13	BH-196 (4.5')	Total/NA	Solid	5035	
890-3011-14	BH-197 (4.5')	Total/NA	Solid	5035	
890-3011-15	BH-198 (4.5')	Total/NA	Solid	5035	
890-3011-16	BH-199 (4.5')	Total/NA	Solid	5035	
890-3011-17	BH-200 (4.5')	Total/NA	Solid	5035	
890-3011-18	BH-201 (4.5')	Total/NA	Solid	5035	
890-3011-19	BH-202 (4.5')	Total/NA	Solid	5035	
890-3011-20	BH-203 (4.5')	Total/NA	Solid	5035	
MB 880-35621/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35621/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35621/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3011-1 MS	H-1 (0-2')	Total/NA	Solid	5035	
890-3011-1 MSD	H-1 (0-2')	Total/NA	Solid	5035	

Prep Batch: 35625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-3011-21	BH-204 (4.5')	Total/NA	Solid	5035	
890-3011-23	BH-206 (4.5')	Total/NA	Solid	5035	
890-3011-24	BH-207 (4.5')	Total/NA	Solid	5035	
890-3011-25	SW-62 (8-13')	Total/NA	Solid	5035	
890-3011-26	SW-72 (0-8')	Total/NA	Solid	5035	
890-3011-27	SW-73 (6-13')	Total/NA	Solid	5035	
890-3011-28	SW-74 (8-13')	Total/NA	Solid	5035	
890-3011-29	SW-75 (0-4.5')	Total/NA	Solid	5035	
890-3011-30	SW-76 (0-4.5')	Total/NA	Solid	5035	
890-3011-31	SW-77 (0-4.5')	Total/NA	Solid	5035	
MB 880-35625/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35625/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35625/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-19417-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-19417-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 35628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-35628/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 35692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-35692/5-A	Method Blank	Total/NA	Solid	5035	

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-3011-1

SDG: Lea County NM

GC VOA

Prep Batch: 35720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-35720/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 35724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3011-22	BH-205 (4.5')	Total/NA	Solid	5035	
MB 880-35724/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35724/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35724/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3015-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-3015-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 35814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3011-1	H-1 (0-2')	Total/NA	Solid	8021B	35621
890-3011-2	H-2 (0-2')	Total/NA	Solid	8021B	35621
890-3011-3	H-3 (0-2')	Total/NA	Solid	8021B	35621
890-3011-4	H-4 (0-2')	Total/NA	Solid	8021B	35621
890-3011-5	H-5 (0-2')	Total/NA	Solid	8021B	35621
890-3011-6	H-6 (0-2')	Total/NA	Solid	8021B	35621
890-3011-7	H-7 (0-2')	Total/NA	Solid	8021B	35621
890-3011-8	BH-191 (8')	Total/NA	Solid	8021B	35621
890-3011-9	BH-192 (8')	Total/NA	Solid	8021B	35621
890-3011-10	BH-193 (8')	Total/NA	Solid	8021B	35621
890-3011-11	BH-194 (8')	Total/NA	Solid	8021B	35621
890-3011-12	BH-195 (8')	Total/NA	Solid	8021B	35621
890-3011-13	BH-196 (4.5')	Total/NA	Solid	8021B	35621
890-3011-14	BH-197 (4.5')	Total/NA	Solid	8021B	35621
890-3011-15	BH-198 (4.5')	Total/NA	Solid	8021B	35621
890-3011-16	BH-199 (4.5')	Total/NA	Solid	8021B	35621
890-3011-17	BH-200 (4.5')	Total/NA	Solid	8021B	35621
890-3011-18	BH-201 (4.5')	Total/NA	Solid	8021B	35621
890-3011-19	BH-202 (4.5')	Total/NA	Solid	8021B	35621
890-3011-20	BH-203 (4.5')	Total/NA	Solid	8021B	35621
MB 880-35621/5-A	Method Blank	Total/NA	Solid	8021B	35621
MB 880-35720/5-A	Method Blank	Total/NA	Solid	8021B	35720
LCS 880-35621/1-A	Lab Control Sample	Total/NA	Solid	8021B	35621
LCSD 880-35621/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35621
890-3011-1 MS	H-1 (0-2')	Total/NA	Solid	8021B	35621
890-3011-1 MSD	H-1 (0-2')	Total/NA	Solid	8021B	35621

Analysis Batch: 35815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3011-21	BH-204 (4.5')	Total/NA	Solid	8021B	35625
890-3011-23	BH-206 (4.5')	Total/NA	Solid	8021B	35625
890-3011-24	BH-207 (4.5')	Total/NA	Solid	8021B	35625
890-3011-25	SW-62 (8-13')	Total/NA	Solid	8021B	35625
890-3011-26	SW-72 (0-8')	Total/NA	Solid	8021B	35625
890-3011-27	SW-73 (6-13')	Total/NA	Solid	8021B	35625
890-3011-28	SW-74 (8-13')	Total/NA	Solid	8021B	35625
890-3011-29	SW-75 (0-4.5')	Total/NA	Solid	8021B	35625
890-3011-30	SW-76 (0-4.5')	Total/NA	Solid	8021B	35625

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Client: Tetra Tech, Inc.

Job ID: 890-3011-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC VOA (Continued)

Analysis Batch: 35815 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3011-31	SW-77 (0-4.5')	Total/NA	Solid	8021B	35625
MB 880-35625/5-A	Method Blank	Total/NA	Solid	8021B	35625
MB 880-35628/5-A	Method Blank	Total/NA	Solid	8021B	35628
LCS 880-35625/1-A	Lab Control Sample	Total/NA	Solid	8021B	35625
LCSD 880-35625/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35625
880-19417-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	35625
880-19417-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	35625

Analysis Batch: 35879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-3011-1	H-1 (0-2')	Total/NA	Solid	Total BTEX	
890-3011-2	H-2 (0-2')	Total/NA	Solid	Total BTEX	
890-3011-3	H-3 (0-2')	Total/NA	Solid	Total BTEX	
890-3011-4	H-4 (0-2')	Total/NA	Solid	Total BTEX	
890-3011-5	H-5 (0-2')	Total/NA	Solid	Total BTEX	
890-3011-6	H-6 (0-2')	Total/NA	Solid	Total BTEX	
890-3011-7	H-7 (0-2')	Total/NA	Solid	Total BTEX	
890-3011-8	BH-191 (8')	Total/NA	Solid	Total BTEX	
890-3011-9	BH-192 (8')	Total/NA	Solid	Total BTEX	
890-3011-10	BH-193 (8')	Total/NA	Solid	Total BTEX	
890-3011-11	BH-194 (8')	Total/NA	Solid	Total BTEX	
890-3011-12	BH-195 (8')	Total/NA	Solid	Total BTEX	
890-3011-13	BH-196 (4.5')	Total/NA	Solid	Total BTEX	
890-3011-14	BH-197 (4.5')	Total/NA	Solid	Total BTEX	
890-3011-15	BH-198 (4.5')	Total/NA	Solid	Total BTEX	
890-3011-16	BH-199 (4.5')	Total/NA	Solid	Total BTEX	
890-3011-17	BH-200 (4.5')	Total/NA	Solid	Total BTEX	
890-3011-18	BH-201 (4.5')	Total/NA	Solid	Total BTEX	
890-3011-19	BH-202 (4.5')	Total/NA	Solid	Total BTEX	
890-3011-20	BH-203 (4.5')	Total/NA	Solid	Total BTEX	
890-3011-21	BH-204 (4.5')	Total/NA	Solid	Total BTEX	
890-3011-22	BH-205 (4.5')	Total/NA	Solid	Total BTEX	
890-3011-23	BH-206 (4.5')	Total/NA	Solid	Total BTEX	
890-3011-24	BH-207 (4.5')	Total/NA	Solid	Total BTEX	
890-3011-25	SW-62 (8-13')	Total/NA	Solid	Total BTEX	
890-3011-26	SW-72 (0-8')	Total/NA	Solid	Total BTEX	
890-3011-27	SW-73 (6-13')	Total/NA	Solid	Total BTEX	
890-3011-28	SW-74 (8-13')	Total/NA	Solid	Total BTEX	
890-3011-29	SW-75 (0-4.5')	Total/NA	Solid	Total BTEX	
890-3011-30	SW-76 (0-4.5')	Total/NA	Solid	Total BTEX	
890-3011-31	SW-77 (0-4.5')	Total/NA	Solid	Total BTEX	

Analysis Batch: 35890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3011-22	BH-205 (4.5')	Total/NA	Solid	8021B	35724
MB 880-35692/5-A	Method Blank	Total/NA	Solid	8021B	35692
MB 880-35724/5-A	Method Blank	Total/NA	Solid	8021B	35724
LCS 880-35724/1-A	Lab Control Sample	Total/NA	Solid	8021B	35724
LCSD 880-35724/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35724
890-3015-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	35724
890-3015-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	35724

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Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

GC Semi VOA

Analysis Batch: 35007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3011-27	SW-73 (6-13')	Total/NA	Solid	8015B NM	35103
890-3011-28	SW-74 (8-13')	Total/NA	Solid	8015B NM	35103
890-3011-29	SW-75 (0-4.5')	Total/NA	Solid	8015B NM	35103
890-3011-30	SW-76 (0-4.5')	Total/NA	Solid	8015B NM	35103
890-3011-31	SW-77 (0-4.5')	Total/NA	Solid	8015B NM	35103
MB 880-35103/1-A	Method Blank	Total/NA	Solid	8015B NM	35103
LCS 880-35103/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35103
LCSD 880-35103/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35103
880-19485-A-21-F MS	Matrix Spike	Total/NA	Solid	8015B NM	35103
880-19485-A-21-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	35103

Prep Batch: 35103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3011-27	SW-73 (6-13')	Total/NA	Solid	8015NM Prep	
890-3011-28	SW-74 (8-13')	Total/NA	Solid	8015NM Prep	
890-3011-29	SW-75 (0-4.5')	Total/NA	Solid	8015NM Prep	
890-3011-30	SW-76 (0-4.5')	Total/NA	Solid	8015NM Prep	
890-3011-31	SW-77 (0-4.5')	Total/NA	Solid	8015NM Prep	
MB 880-35103/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-35103/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-35103/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-19485-A-21-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-19485-A-21-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 35122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3011-1	H-1 (0-2')	Total/NA	Solid	8015B NM	35130
890-3011-2	H-2 (0-2')	Total/NA	Solid	8015B NM	35130
890-3011-3	H-3 (0-2')	Total/NA	Solid	8015B NM	35130
890-3011-4	H-4 (0-2')	Total/NA	Solid	8015B NM	35130
890-3011-5	H-5 (0-2')	Total/NA	Solid	8015B NM	35130
890-3011-6	H-6 (0-2')	Total/NA	Solid	8015B NM	35130
890-3011-7	H-7 (0-2')	Total/NA	Solid	8015B NM	35130
890-3011-8	BH-191 (8')	Total/NA	Solid	8015B NM	35130
890-3011-9	BH-192 (8')	Total/NA	Solid	8015B NM	35130
890-3011-10	BH-193 (8')	Total/NA	Solid	8015B NM	35130
890-3011-11	BH-194 (8')	Total/NA	Solid	8015B NM	35130
890-3011-12	BH-195 (8')	Total/NA	Solid	8015B NM	35130
890-3011-13	BH-196 (4.5')	Total/NA	Solid	8015B NM	35130
890-3011-14	BH-197 (4.5')	Total/NA	Solid	8015B NM	35130
890-3011-15	BH-198 (4.5')	Total/NA	Solid	8015B NM	35130
890-3011-16	BH-199 (4.5')	Total/NA	Solid	8015B NM	35130
890-3011-17	BH-200 (4.5')	Total/NA	Solid	8015B NM	35130
890-3011-18	BH-201 (4.5')	Total/NA	Solid	8015B NM	35130
MB 880-35130/1-A	Method Blank	Total/NA	Solid	8015B NM	35130
LCS 880-35130/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35130
LCSD 880-35130/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35130
890-3011-1 MS	H-1 (0-2')	Total/NA	Solid	8015B NM	35130
890-3011-1 MSD	H-1 (0-2')	Total/NA	Solid	8015B NM	35130

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-3011-1

SDG: Lea County NM

GC Semi VOA

Prep Batch: 35130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-3011-1	H-1 (0-2')	Total/NA	Solid	8015NM Prep	
890-3011-2	H-2 (0-2')	Total/NA	Solid	8015NM Prep	
890-3011-3	H-3 (0-2')	Total/NA	Solid	8015NM Prep	
890-3011-4	H-4 (0-2')	Total/NA	Solid	8015NM Prep	
890-3011-5	H-5 (0-2')	Total/NA	Solid	8015NM Prep	
890-3011-6	H-6 (0-2')	Total/NA	Solid	8015NM Prep	
890-3011-7	H-7 (0-2')	Total/NA	Solid	8015NM Prep	
890-3011-8	BH-191 (8')	Total/NA	Solid	8015NM Prep	
890-3011-9	BH-192 (8')	Total/NA	Solid	8015NM Prep	
890-3011-10	BH-193 (8')	Total/NA	Solid	8015NM Prep	
890-3011-11	BH-194 (8')	Total/NA	Solid	8015NM Prep	
890-3011-12	BH-195 (8')	Total/NA	Solid	8015NM Prep	
890-3011-13	BH-196 (4.5')	Total/NA	Solid	8015NM Prep	
890-3011-14	BH-197 (4.5')	Total/NA	Solid	8015NM Prep	
890-3011-15	BH-198 (4.5')	Total/NA	Solid	8015NM Prep	
890-3011-16	BH-199 (4.5')	Total/NA	Solid	8015NM Prep	
890-3011-17	BH-200 (4.5')	Total/NA	Solid	8015NM Prep	
890-3011-18	BH-201 (4.5')	Total/NA	Solid	8015NM Prep	
MB 880-35130/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-35130/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-35130/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3011-1 MS	H-1 (0-2')	Total/NA	Solid	8015NM Prep	
890-3011-1 MSD	H-1 (0-2')	Total/NA	Solid	8015NM Prep	

Prep Batch: 35172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3011-21	BH-204 (4.5')	Total/NA	Solid	8015NM Prep	
890-3011-22	BH-205 (4.5')	Total/NA	Solid	8015NM Prep	
890-3011-23	BH-206 (4.5')	Total/NA	Solid	8015NM Prep	
890-3011-24	BH-207 (4.5')	Total/NA	Solid	8015NM Prep	
890-3011-25	SW-62 (8-13')	Total/NA	Solid	8015NM Prep	
890-3011-26	SW-72 (0-8')	Total/NA	Solid	8015NM Prep	
MB 880-35172/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-35172/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-35172/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3010-A-2-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3010-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 35220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3011-21	BH-204 (4.5')	Total/NA	Solid	8015B NM	35172
890-3011-22	BH-205 (4.5')	Total/NA	Solid	8015B NM	35172
890-3011-23	BH-206 (4.5')	Total/NA	Solid	8015B NM	35172
890-3011-24	BH-207 (4.5')	Total/NA	Solid	8015B NM	35172
890-3011-25	SW-62 (8-13')	Total/NA	Solid	8015B NM	35172
890-3011-26	SW-72 (0-8')	Total/NA	Solid	8015B NM	35172
MB 880-35172/1-A	Method Blank	Total/NA	Solid	8015B NM	35172
LCS 880-35172/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35172
LCSD 880-35172/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35172
890-3010-A-2-C MS	Matrix Spike	Total/NA	Solid	8015B NM	35172
890-3010-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	35172

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Client: Tetra Tech, Inc.

Job ID: 890-3011-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC Semi VOA

Prep Batch: 35262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3011-19	BH-202 (4.5')	Total/NA	Solid	8015NM Prep	
890-3011-20	BH-203 (4.5')	Total/NA	Solid	8015NM Prep	
MB 880-35262/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-35262/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-35262/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3011-19 MS	BH-202 (4.5')	Total/NA	Solid	8015NM Prep	
890-3011-19 MSD	BH-202 (4.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 35274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3011-1	H-1 (0-2')	Total/NA	Solid	8015 NM	
890-3011-2	H-2 (0-2')	Total/NA	Solid	8015 NM	
890-3011-3	H-3 (0-2')	Total/NA	Solid	8015 NM	
890-3011-4	H-4 (0-2')	Total/NA	Solid	8015 NM	
890-3011-5	H-5 (0-2')	Total/NA	Solid	8015 NM	
890-3011-6	H-6 (0-2')	Total/NA	Solid	8015 NM	
890-3011-7	H-7 (0-2')	Total/NA	Solid	8015 NM	
890-3011-8	BH-191 (8')	Total/NA	Solid	8015 NM	
890-3011-9	BH-192 (8')	Total/NA	Solid	8015 NM	
890-3011-10	BH-193 (8')	Total/NA	Solid	8015 NM	
890-3011-11	BH-194 (8')	Total/NA	Solid	8015 NM	
890-3011-12	BH-195 (8')	Total/NA	Solid	8015 NM	
890-3011-13	BH-196 (4.5')	Total/NA	Solid	8015 NM	
890-3011-14	BH-197 (4.5')	Total/NA	Solid	8015 NM	
890-3011-15	BH-198 (4.5')	Total/NA	Solid	8015 NM	
890-3011-16	BH-199 (4.5')	Total/NA	Solid	8015 NM	
890-3011-17	BH-200 (4.5')	Total/NA	Solid	8015 NM	
890-3011-18	BH-201 (4.5')	Total/NA	Solid	8015 NM	
890-3011-19	BH-202 (4.5')	Total/NA	Solid	8015 NM	
890-3011-20	BH-203 (4.5')	Total/NA	Solid	8015 NM	
890-3011-21	BH-204 (4.5')	Total/NA	Solid	8015 NM	
890-3011-22	BH-205 (4.5')	Total/NA	Solid	8015 NM	
890-3011-23	BH-206 (4.5')	Total/NA	Solid	8015 NM	
890-3011-24	BH-207 (4.5')	Total/NA	Solid	8015 NM	
890-3011-25	SW-62 (8-13')	Total/NA	Solid	8015 NM	
890-3011-26	SW-72 (0-8')	Total/NA	Solid	8015 NM	
890-3011-27	SW-73 (6-13')	Total/NA	Solid	8015 NM	
890-3011-28	SW-74 (8-13')	Total/NA	Solid	8015 NM	
890-3011-29	SW-75 (0-4.5')	Total/NA	Solid	8015 NM	
890-3011-30	SW-76 (0-4.5')	Total/NA	Solid	8015 NM	
890-3011-31	SW-77 (0-4.5')	Total/NA	Solid	8015 NM	

Analysis Batch: 35322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3011-19	BH-202 (4.5')	Total/NA	Solid	8015B NM	35262
890-3011-20	BH-203 (4.5')	Total/NA	Solid	8015B NM	35262
MB 880-35262/1-A	Method Blank	Total/NA	Solid	8015B NM	35262
LCS 880-35262/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35262
LCSD 880-35262/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35262
890-3011-19 MS	BH-202 (4.5')	Total/NA	Solid	8015B NM	35262
890-3011-19 MSD	BH-202 (4.5')	Total/NA	Solid	8015B NM	35262

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Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

HPLC/IC

Leach Batch: 35023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3011-1	H-1 (0-2')	Soluble	Solid	DI Leach	
890-3011-2	H-2 (0-2')	Soluble	Solid	DI Leach	
890-3011-3	H-3 (0-2')	Soluble	Solid	DI Leach	
890-3011-4	H-4 (0-2')	Soluble	Solid	DI Leach	
890-3011-5	H-5 (0-2')	Soluble	Solid	DI Leach	
890-3011-6	H-6 (0-2')	Soluble	Solid	DI Leach	
890-3011-7	H-7 (0-2')	Soluble	Solid	DI Leach	
890-3011-8	BH-191 (8')	Soluble	Solid	DI Leach	
890-3011-9	BH-192 (8')	Soluble	Solid	DI Leach	
890-3011-10	BH-193 (8')	Soluble	Solid	DI Leach	
890-3011-11	BH-194 (8')	Soluble	Solid	DI Leach	
890-3011-12	BH-195 (8')	Soluble	Solid	DI Leach	
890-3011-13	BH-196 (4.5')	Soluble	Solid	DI Leach	
890-3011-14	BH-197 (4.5')	Soluble	Solid	DI Leach	
890-3011-15	BH-198 (4.5')	Soluble	Solid	DI Leach	
890-3011-16	BH-199 (4.5')	Soluble	Solid	DI Leach	
MB 880-35023/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-35023/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-35023/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3011-7 MS	H-7 (0-2')	Soluble	Solid	DI Leach	
890-3011-7 MSD	H-7 (0-2')	Soluble	Solid	DI Leach	

Leach Batch: 35024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-3011-17	BH-200 (4.5')	Soluble	Solid	DI Leach	
890-3011-18	BH-201 (4.5')	Soluble	Solid	DI Leach	
890-3011-19	BH-202 (4.5')	Soluble	Solid	DI Leach	
890-3011-20	BH-203 (4.5')	Soluble	Solid	DI Leach	
890-3011-21	BH-204 (4.5')	Soluble	Solid	DI Leach	
890-3011-22	BH-205 (4.5')	Soluble	Solid	DI Leach	
890-3011-23	BH-206 (4.5')	Soluble	Solid	DI Leach	
890-3011-24	BH-207 (4.5')	Soluble	Solid	DI Leach	
890-3011-25	SW-62 (8-13')	Soluble	Solid	DI Leach	
890-3011-26	SW-72 (0-8')	Soluble	Solid	DI Leach	
890-3011-27	SW-73 (6-13')	Soluble	Solid	DI Leach	
890-3011-28	SW-74 (8-13')	Soluble	Solid	DI Leach	
890-3011-29	SW-75 (0-4.5')	Soluble	Solid	DI Leach	
890-3011-30	SW-76 (0-4.5')	Soluble	Solid	DI Leach	
890-3011-31	SW-77 (0-4.5')	Soluble	Solid	DI Leach	
MB 880-35024/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-35024/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-35024/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3011-17 MS	BH-200 (4.5')	Soluble	Solid	DI Leach	
890-3011-17 MSD	BH-200 (4.5')	Soluble	Solid	DI Leach	
890-3011-27 MS	SW-73 (6-13')	Soluble	Solid	DI Leach	
890-3011-27 MSD	SW-73 (6-13')	Soluble	Solid	DI Leach	

Analysis Batch: 35313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3011-17	BH-200 (4.5')	Soluble	Solid	300.0	35024
890-3011-18	BH-201 (4.5')	Soluble	Solid	300.0	35024

Client: Tetra Tech, Inc.

Job ID: 890-3011-1

Project/Site: Kaiser SWD

SDG: Lea County NM

HPLC/IC (Continued)

Analysis Batch: 35313 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3011-19	BH-202 (4.5')	Soluble	Solid	300.0	35024
890-3011-20	BH-203 (4.5')	Soluble	Solid	300.0	35024
890-3011-21	BH-204 (4.5')	Soluble	Solid	300.0	35024
890-3011-22	BH-205 (4.5')	Soluble	Solid	300.0	35024
890-3011-23	BH-206 (4.5')	Soluble	Solid	300.0	35024
890-3011-24	BH-207 (4.5')	Soluble	Solid	300.0	35024
890-3011-25	SW-62 (8-13')	Soluble	Solid	300.0	35024
890-3011-26	SW-72 (0-8')	Soluble	Solid	300.0	35024
890-3011-27	SW-73 (6-13')	Soluble	Solid	300.0	35024
890-3011-28	SW-74 (8-13')	Soluble	Solid	300.0	35024
890-3011-29	SW-75 (0-4.5')	Soluble	Solid	300.0	35024
890-3011-30	SW-76 (0-4.5')	Soluble	Solid	300.0	35024
890-3011-31	SW-77 (0-4.5')	Soluble	Solid	300.0	35024
MB 880-35024/1-A	Method Blank	Soluble	Solid	300.0	35024
LCS 880-35024/2-A	Lab Control Sample	Soluble	Solid	300.0	35024
LCSD 880-35024/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	35024
890-3011-17 MS	BH-200 (4.5')	Soluble	Solid	300.0	35024
890-3011-17 MSD	BH-200 (4.5')	Soluble	Solid	300.0	35024
890-3011-27 MS	SW-73 (6-13')	Soluble	Solid	300.0	35024
890-3011-27 MSD	SW-73 (6-13')	Soluble	Solid	300.0	35024

Analysis Batch: 35314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3011-1	H-1 (0-2')	Soluble	Solid	300.0	35023
890-3011-2	H-2 (0-2')	Soluble	Solid	300.0	35023
890-3011-3	H-3 (0-2')	Soluble	Solid	300.0	35023
890-3011-4	H-4 (0-2')	Soluble	Solid	300.0	35023
890-3011-5	H-5 (0-2')	Soluble	Solid	300.0	35023
890-3011-6	H-6 (0-2')	Soluble	Solid	300.0	35023
890-3011-7	H-7 (0-2')	Soluble	Solid	300.0	35023
890-3011-8	BH-191 (8')	Soluble	Solid	300.0	35023
890-3011-9	BH-192 (8')	Soluble	Solid	300.0	35023
890-3011-10	BH-193 (8')	Soluble	Solid	300.0	35023
890-3011-11	BH-194 (8')	Soluble	Solid	300.0	35023
890-3011-12	BH-195 (8')	Soluble	Solid	300.0	35023
890-3011-13	BH-196 (4.5')	Soluble	Solid	300.0	35023
890-3011-14	BH-197 (4.5')	Soluble	Solid	300.0	35023
890-3011-15	BH-198 (4.5')	Soluble	Solid	300.0	35023
890-3011-16	BH-199 (4.5')	Soluble	Solid	300.0	35023
MB 880-35023/1-A	Method Blank	Soluble	Solid	300.0	35023
LCS 880-35023/2-A	Lab Control Sample	Soluble	Solid	300.0	35023
LCSD 880-35023/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	35023
890-3011-7 MS	H-7 (0-2')	Soluble	Solid	300.0	35023
890-3011-7 MSD	H-7 (0-2')	Soluble	Solid	300.0	35023

Job ID: 890-3011-1 SDG: Lea County NM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Lab Sample ID: 890-3011-1

Matrix: Solid

Client Sample ID: H-1 (0-2')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	10/01/22 06:49	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35130	09/22/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/22/22 20:34	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	35023	09/21/22 10:05	SMC	EET MID
Soluble	Analysis	300.0		1			35314	09/23/22 23:13	CH	EET MID

Client Sample ID: H-2 (0-2') Lab Sample ID: 890-3011-2 Date Collected: 09/19/22 00:00 Matrix: Solid

Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	10/01/22 07:16	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35130	09/22/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/22/22 21:39	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	35023	09/21/22 10:05	SMC	EET MID
Soluble	Analysis	300.0		1			35314	09/23/22 23:27	CH	EET MID

Client Sample ID: H-3 (0-2') Lab Sample ID: 890-3011-3 Date Collected: 09/19/22 00:00 **Matrix: Solid**

Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	10/01/22 07:42	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	35130	09/22/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/22/22 22:00	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	35023	09/21/22 10:05	SMC	EET MID
Soluble	Analysis	300.0		1			35314	09/23/22 23:32	CH	EET MID

Client Sample ID: H-4 (0-2') Lab Sample ID: 890-3011-4

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Г	Datab	Datab		D:I	11411	F:1	Datab	D		
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	10/01/22 08:08	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID

Eurofins Carlsbad

Job ID: 890-3011-1 SDG: Lea County NM

Client Sample ID: H-4 (0-2')

Date Received: 09/20/22 10:22

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Lab Sample ID: 890-3011-4 Date Collected: 09/19/22 00:00

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35130	09/22/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/22/22 22:22	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	35023	09/21/22 10:05	SMC	EET MID
Soluble	Analysis	300.0		1			35314	09/23/22 23:37	CH	EET MID

Lab Sample ID: 890-3011-5 Client Sample ID: H-5 (0-2')

Date Collected: 09/19/22 00:00 **Matrix: Solid**

Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	10/01/22 08:35	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35130	09/22/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/22/22 22:43	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	35023	09/21/22 10:05	SMC	EET MIC
Soluble	Analysis	300.0		1			35314	09/23/22 23:42	CH	EET MID

Client Sample ID: H-6 (0-2') Lab Sample ID: 890-3011-6 Date Collected: 09/19/22 00:00 **Matrix: Solid**

Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	10/01/22 09:01	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35130	09/22/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/22/22 23:05	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	35023	09/21/22 10:05	SMC	EET MID
Soluble	Analysis	300.0		1			35314	09/23/22 23:47	CH	EET MID

Client Sample ID: H-7 (0-2') Lab Sample ID: 890-3011-7

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	10/01/22 09:37	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.04 g 1 uL	10 mL 1 uL	35130 35122	09/22/22 08:45 09/22/22 23:26	DM SM	EET MID EET MID

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Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: H-7 (0-2')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22 Lab Sample ID: 890-3011-7

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	35023	09/21/22 10:05	SMC	EET MID
Soluble	Analysis	300.0		1			35314	09/23/22 23:52	CH	EET MID

Client Sample ID: BH-191 (8') Lab Sample ID: 890-3011-8

Date Collected: 09/19/22 00:00 **Matrix: Solid**

Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	10/01/22 10:04	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35130	09/22/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/23/22 02:18	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	35023	09/21/22 10:05	SMC	EET MID
Soluble	Analysis	300.0		1			35314	09/24/22 00:07	CH	EET MID

Client Sample ID: BH-192 (8') Lab Sample ID: 890-3011-9

Date Collected: 09/19/22 00:00 **Matrix: Solid** Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	10/01/22 10:30	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	35130	09/22/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/22/22 23:47	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	35023	09/21/22 10:05	SMC	EET MID
Soluble	Analysis	300.0		1			35314	09/24/22 00:12	CH	EET MID

Client Sample ID: BH-193 (8') Lab Sample ID: 890-3011-10

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	10/01/22 10:57	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35130	09/22/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/23/22 01:56	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	35023	09/21/22 10:05	SMC	EET MID
Soluble	Analysis	300.0		1			35314	09/24/22 00:26	CH	EET MID

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Job ID: 890-3011-1 SDG: Lea County NM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Client Sample ID: BH-194 (8') Lab Sample ID: 890-3011-11

Matrix: Solid

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	10/01/22 12:42	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35130	09/22/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/23/22 02:40	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	35023	09/21/22 10:05	SMC	EET MID
Soluble	Analysis	300.0		1			35314	09/24/22 00:31	СН	EET MID

Client Sample ID: BH-195 (8') Lab Sample ID: 890-3011-12

Date Collected: 09/19/22 00:00 Matrix: Solid Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	10/01/22 13:08	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35130	09/22/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/23/22 00:09	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	35023	09/21/22 10:05	SMC	EET MID
Soluble	Analysis	300.0		1			35314	09/24/22 00:36	CH	EET MID

Client Sample ID: BH-196 (4.5') Lab Sample ID: 890-3011-13

Date Collected: 09/19/22 00:00 **Matrix: Solid** Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	10/01/22 13:34	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	35130	09/22/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/23/22 00:30	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	35023	09/21/22 10:05	SMC	EET MID
Soluble	Analysis	300.0		5			35314	09/24/22 00:41	CH	EET MID

Client Sample ID: BH-197 (4.5') Lab Sample ID: 890-3011-14

Date Collected: 09/19/22 00:00 **Matrix: Solid** Date Received: 09/20/22 10:22

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	10/01/22 14:00	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID

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Job ID: 890-3011-1 SDG: Lea County NM

Project/Site: Kaiser SWD

Lab Sample ID: 890-3011-14

Matrix: Solid

Client Sample ID: BH-197 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Client: Tetra Tech, Inc.

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	35130	09/22/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/23/22 03:01	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	35023	09/21/22 10:05	SMC	EET MID
Soluble	Analysis	300.0		5			35314	09/24/22 00:46	CH	EET MID

Lab Sample ID: 890-3011-15

Client Sample ID: BH-198 (4.5') Date Collected: 09/19/22 00:00 **Matrix: Solid**

Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	10/01/22 14:26	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	35130	09/22/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/23/22 01:13	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	35023	09/21/22 10:05	SMC	EET MIC
Soluble	Analysis	300.0		5			35314	09/24/22 00:51	CH	EET MID

Client Sample ID: BH-199 (4.5') Lab Sample ID: 890-3011-16

Date Collected: 09/19/22 00:00 **Matrix: Solid** Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	10/01/22 14:52	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35130	09/22/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/23/22 01:35	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	35023	09/21/22 10:05	SMC	EET MID
Soluble	Analysis	300.0		1			35314	09/24/22 00:55	CH	EET MID

Client Sample ID: BH-200 (4.5') Lab Sample ID: 890-3011-17

Date Collected: 09/19/22 00:00 **Matrix: Solid** Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	35814	10/01/22 16:10	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35130	09/22/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/23/22 03:23	SM	EET MID

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Client: Tetra Tech, Inc.

Job ID: 890-3011-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-200 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22 Lab Sample ID: 890-3011-17

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	35024	09/22/22 11:54	SMC	EET MID
Soluble	Analysis	300.0		5			35313	09/23/22 19:57	CH	EET MID

Client Sample ID: BH-201 (4.5')

Lab Sample ID: 890-3011-18

Date Collected: 09/19/22 00:00 Matrix: Solid

Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	35814	10/01/22 16:36	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35130	09/22/22 08:45	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/23/22 03:44	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	35024	09/22/22 11:54	SMC	EET MID
Soluble	Analysis	300.0		5			35313	09/23/22 20:11	CH	EET MID

Client Sample ID: BH-202 (4.5')

Lab Sample ID: 890-3011-19

Date Collected: 09/19/22 00:00 Matrix: Solid

Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	10/01/22 15:18	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35262	09/23/22 11:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35322	09/24/22 11:43	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	35024	09/22/22 11:54	SMC	EET MID
Soluble	Analysis	300.0		5			35313	09/23/22 20:16	CH	EET MID

Client Sample ID: BH-203 (4.5')

Lab Sample ID: 890-3011-20

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	35621	09/28/22 14:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	10/01/22 15:44	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35262	09/23/22 11:03	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35322	09/24/22 12:48	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	35024	09/22/22 11:54	SMC	EET MID
Soluble	Analysis	300.0		1			35313	09/23/22 20:22	CH	EET MID

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Matrix: Solid

Job ID: 890-3011-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-204 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Lab Sample ID: 890-3011-21

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35625	09/28/22 16:17	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	35815	10/01/22 22:31	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	35172	09/22/22 11:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35220	09/24/22 05:14	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	35024	09/22/22 11:54	SMC	EET MID
Soluble	Analysis	300.0		5			35313	09/23/22 20:27	CH	EET MID

Client Sample ID: BH-205 (4.5')

Date Collected: 09/19/22 00:00

Date Received: 09/20/22 10:22

Lab Sample ID: 890-3011-22

Matrix: Solid

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 Total/NA Prep 5.01 g 5 mL 35724 09/29/22 16:18 MNR EET MID Total/NA 8021B 5 mL 35890 10/03/22 19:15 **EET MID** Analysis 100 5 mL ΑJ Total/NA Total BTEX 35879 10/01/22 19:48 Analysis A.I **EET MID** 1 Total/NA Analysis 8015 NM 35274 09/23/22 12:25 SM **EET MID** Total/NA 35172 Prep 8015NM Prep 10.02 g 10 mL 09/22/22 11:26 DM **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 35220 09/24/22 04:09 SM **EET MID** Soluble 35024 Leach DI Leach 5 g 50 mL 09/22/22 11:54 SMC **EET MID** Soluble Analysis 300.0 5 35313 09/23/22 20:41 СН **EET MID**

Client Sample ID: BH-206 (4.5')

Date Collected: 09/19/22 00:00

Date Received: 09/20/22 10:22

Lab Sample ID: 890-3011-23

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35625	09/28/22 16:17	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	35815	10/01/22 23:12	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35172	09/22/22 11:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35220	09/24/22 04:31	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	35024	09/22/22 11:54	SMC	EET MID
Soluble	Analysis	300.0		5			35313	09/23/22 20:46	CH	EET MID

Client Sample ID: BH-207 (4.5')

Date Collected: 09/19/22 00:00

Date Received: 09/20/22 10:22

Lab Sample ID: 890-3011-24

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	35625	09/28/22 16:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35815	10/01/22 21:51	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-207 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22 Lab Sample ID: 890-3011-24

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35172	09/22/22 11:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35220	09/24/22 03:26	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	35024	09/22/22 11:54	SMC	EET MID
Soluble	Analysis	300.0		10			35313	09/23/22 20:51	CH	EET MID

Client Sample ID: SW-62 (8-13') Lab Sample ID: 890-3011-25

Date Collected: 09/19/22 00:00

Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35625	09/28/22 16:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35815	10/01/22 22:11	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35172	09/22/22 11:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35220	09/24/22 05:36	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	35024	09/22/22 11:54	SMC	EET MID
Soluble	Analysis	300.0		1			35313	09/23/22 20:56	CH	EET MID

Client Sample ID: SW-72 (0-8') Lab Sample ID: 890-3011-26 Date Collected: 09/19/22 00:00 **Matrix: Solid**

Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35625	09/28/22 16:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35815	10/02/22 01:22	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35172	09/22/22 11:26	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35220	09/24/22 04:53	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	35024	09/22/22 11:54	SMC	EET MID
Soluble	Analysis	300.0		1			35313	09/23/22 21:01	CH	EET MID

Lab Sample ID: 890-3011-27 Client Sample ID: SW-73 (6-13')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	35625	09/28/22 16:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35815	10/02/22 01:42	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.03 g 1 uL	10 mL 1 uL	35103 35007	09/21/22 15:33 09/22/22 03:11	DM SM	EET MID EET MID

Eurofins Carlsbad

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-73 (6-13')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22 Lab Sample ID: 890-3011-27

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	35024	09/22/22 11:54	SMC	EET MID
Soluble	Analysis	300.0		1			35313	09/23/22 21:05	CH	EET MID

Client Sample ID: SW-74 (8-13') Lab Sample ID: 890-3011-28

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35625	09/28/22 16:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35815	10/02/22 02:03	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35103	09/21/22 15:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35007	09/22/22 03:32	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	35024	09/22/22 11:54	SMC	EET MID
Soluble	Analysis	300.0		5			35313	09/23/22 21:20	CH	EET MID

Client Sample ID: SW-75 (0-4.5') Lab Sample ID: 890-3011-29

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22 **Matrix: Solid**

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35625	09/28/22 16:17	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	35815	10/02/22 04:26	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35103	09/21/22 15:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35007	09/22/22 03:53	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	35024	09/22/22 11:54	SMC	EET MID
Soluble	Analysis	300.0		1			35313	09/23/22 21:25	CH	EET MID

Client Sample ID: SW-76 (0-4.5') Lab Sample ID: 890-3011-30

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35625	09/28/22 16:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35815	10/02/22 02:23	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	35103	09/21/22 15:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35007	09/22/22 04:14	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	35024	09/22/22 11:54	SMC	EET MID
Soluble	Analysis	300.0		10			35313	09/23/22 21:39	CH	EET MID

Lab Chronicle

Client: Tetra Tech, Inc.

Job ID: 890-3011-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-77 (0-4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22 Lab Sample ID: 890-3011-31

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35625	09/28/22 16:17	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35815	10/02/22 02:44	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35879	10/01/22 19:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35274	09/23/22 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35103	09/21/22 15:33	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35007	09/22/22 04:35	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	35024	09/22/22 11:54	SMC	EET MID
Soluble	Analysis	300.0		5			35313	09/23/22 21:44	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

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Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Job ID: 890-3011-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date	
Texas	kas		T104704400-22-24	06-30-23	
The following analytes	ara inalizadad in thia ranart hi	it the leberatory is not contiffi	iad butba gavarning authority. This list was		
the agency does not of	. ,	at the laboratory is not certil	ied by the governing authority. This list ma	ay include analytes for t	
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the agency does not of	fer certification.	•	, , ,	ay include analytes for v	

Method Summary

Client: Tetra Tech, Inc.

Job ID: 890-3011-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

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Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

890-3011-31

SW-77 (0-4.5')

Job ID: 890-3011-1 SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3011-1	H-1 (0-2')	Solid	09/19/22 00:00	09/20/22 10:22	0 - 2
890-3011-2	H-2 (0-2')	Solid	09/19/22 00:00	09/20/22 10:22	0 - 2
890-3011-3	H-3 (0-2')	Solid	09/19/22 00:00	09/20/22 10:22	0 - 2
890-3011-4	H-4 (0-2')	Solid	09/19/22 00:00	09/20/22 10:22	0 - 2
890-3011-5	H-5 (0-2')	Solid	09/19/22 00:00	09/20/22 10:22	0 - 2
890-3011-6	H-6 (0-2')	Solid	09/19/22 00:00	09/20/22 10:22	0 - 2
890-3011-7	H-7 (0-2')	Solid	09/19/22 00:00	09/20/22 10:22	0 - 2
890-3011-8	BH-191 (8')	Solid	09/19/22 00:00	09/20/22 10:22	8
890-3011-9	BH-192 (8')	Solid	09/19/22 00:00	09/20/22 10:22	8
890-3011-10	BH-193 (8')	Solid	09/19/22 00:00	09/20/22 10:22	8
890-3011-11	BH-194 (8')	Solid	09/19/22 00:00	09/20/22 10:22	8
890-3011-12	BH-195 (8')	Solid	09/19/22 00:00	09/20/22 10:22	8
890-3011-13	BH-196 (4.5')	Solid	09/19/22 00:00	09/20/22 10:22	4.5
890-3011-14	BH-197 (4.5')	Solid	09/19/22 00:00	09/20/22 10:22	4.5
890-3011-15	BH-198 (4.5')	Solid	09/19/22 00:00	09/20/22 10:22	4.5
890-3011-16	BH-199 (4.5')	Solid	09/19/22 00:00	09/20/22 10:22	4.5
890-3011-17	BH-200 (4.5')	Solid	09/19/22 00:00	09/20/22 10:22	4.5
890-3011-18	BH-201 (4.5')	Solid	09/19/22 00:00	09/20/22 10:22	4.5
890-3011-19	BH-202 (4.5')	Solid	09/19/22 00:00	09/20/22 10:22	4.5
890-3011-20	BH-203 (4.5')	Solid	09/19/22 00:00	09/20/22 10:22	4.5
890-3011-21	BH-204 (4.5')	Solid	09/19/22 00:00	09/20/22 10:22	4.5
890-3011-22	BH-205 (4.5')	Solid	09/19/22 00:00	09/20/22 10:22	4.5
890-3011-23	BH-206 (4.5')	Solid	09/19/22 00:00	09/20/22 10:22	4.5
890-3011-24	BH-207 (4.5')	Solid	09/19/22 00:00	09/20/22 10:22	4.5
890-3011-25	SW-62 (8-13')	Solid	09/19/22 00:00	09/20/22 10:22	8 - 13
890-3011-26	SW-72 (0-8')	Solid	09/19/22 00:00	09/20/22 10:22	0 - 8
890-3011-27	SW-73 (6-13')	Solid	09/19/22 00:00	09/20/22 10:22	6 - 13
890-3011-28	SW-74 (8-13')	Solid	09/19/22 00:00	09/20/22 10:22	8 - 13
890-3011-29	SW-75 (0-4.5')	Solid	09/19/22 00:00	09/20/22 10:22	0 - 4.5
890-3011-30	SW-76 (0-4.5')	Solid	09/19/22 00:00	09/20/22 10:22	0 - 4.5

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Page 67 of 72

10/3/2022

Analysis R	equest of Chain of Custody Record																			- 1	Page	9		1	of	
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Client Name:	Permian Water Solutions	Site Manager		Clair Go							Al	NAL	Υ!													
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Receiving Labo		Sampler Sign	ature:	Peyt	on	oliv	er						- OXC	Pb Se Hg	Po Se			2					see atts			
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LAB #	SAMPLE IDENTIFICATION	YEAR: 2020 ELECTRICAL PROPERTY OF THE PROPERTY	TIME	WATER		HCL	ICE	None	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH TX1005 (Ext to C35)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb	ICLP Metals A	TCLP Semi Volatiles	RCI	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	NORM	PLM (Asbestos)		General Water Chemistry (see attached list)	Anion/Cation Balance		
	H-1 (0-2')	9/19/2022		Х			Х				Х)	<	П							X	$\overline{}$				
	H-2 (0-2')	9/19/2022		Х			Х				Х)	(X		Ш			
	H-3 (0-2')	9/19/2022		Х			Х				X)	(Ц				L	Ш		X		Ц	_	\perp	
	H-4 (0-2')	9/19/2022		X			X				X	_ >	4	Ц							X		\sqcup	丄		
	H-5 (0-2')	9/19/2022		Х			X				X)		Ц			1		Ш		X		\sqcup	_	\perp	
	H-6 (0-2')	9/19/2022		X			X				X			Ц	_	Ц	1	\perp	Ш	Ц	X	+	\sqcup	4	1	Ш
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Comments:											X 8260B	(35)	2	a Cd Cr	3a Cd C			624	2/10/10/			TUS	mistry	8			
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LAB USE ONLY	SAMPLE IDENTIFICATION	YEAR: 2020	TIME	WATER	9	<u>ದ</u>	HNO ₃	lone	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH TX1005 (Ext to C35)		Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals A	TCLP Semi Vo	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 82/UC/625	NORM	PLM (Asbestos)	Chloride	Seneral Water	Anion/Cation Balance			Hold
,	BH-194 (8')	9/19/2022	<u> </u>		X		X	_	#	11	X	×			<u> -</u>		IE.		۵ و	- 2	+	X					
	BH-195 (8')	9/19/2022			X		Х				X.	X							I			Х					
	BH-196 (4.5')	9/19/2022			X		X				Х	Х										х					
	BH-197 (4.5')	9/19/2022			X		Х				Х	×										Х					
	BH-198 (4.5')	9/19/2022			X		X				х	X										Х			Ц		
	BH-199 (4.5')	9/19/2022			X		X				Х	X										х		Ш			
	BH-200 (4.5')	9/19/2022			Х		Х				Х	X										Х				1	
	BH-201 (4.5')	9/19/2022			X		Х				Х	X				\perp	Ц		1			X		Ш		1	_
	BH-202 (4.5')	9/19/2022			X		X				Х	X										X	1	\sqcup	1	+	\downarrow
	BH-203 (4.5')	9/19/2022			X		X				X	X							L			X	上		Щ		
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10/3/2022

Analysis R	equest of Chain of Custody Record																			ا	Pag	е		,	of	4
TŁ	Tetra Tech, Inc.			Midlar Tel (4	nd,Te 432)	682-4559	5																			
Client Name:	Permian Water Solutions	Site Manager		Clair G			5110				AN	AL	/SIS	RE			r S	200	.i.	Mc	the	od I	No	\		
Project Name:	Kaiser SWD		Clair.Gon	zales@	tetr	ratech.	com	1			1	1	11) 					1	11	
Project Locatio (county, state)	n: Lea County, NM	Project #:		212	:C-I	MD-02	230																ist)			
Invoice to:	Permian Water Solutions - Dusty McInturff]	MRO)		B 도									ached l			
Receiving Labo	ratory: Eurofins Xenco	Sampler Sign	ature:	Pey	tor	Olive	r					- ORO		Pb Se				5					see at			
Comments:											(82608	(35) DRO-0		S Cd Cr			824	8270C/625			1	TDS	mistry (8		
		SAME	PLING	MATRI	Х		ERVA ETHO		RS	(N)	BTEX	GRO.		An As B	S	olatiles	/ ausca	Vol. 82)S)	Sulfate	er Chei	Balan		
LAB USE ONLY	SAMPLE IDENTIFICATION	YEAR: 2020 DATE	TIME	WATER		HCL HNO ₃	ICE	None	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH TX1005 (Ext to C35) TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Semi. Vol.	PCB's 8082/608	NORM	PLM (Asbestos)	Chloride	General Water Chemistry (see attached list)	Anion/Cation Balance		Hold
	BH-204 (4.5')	9/19/2022		Х			Х				Х	Х									×	(
	BH-205 (4.5')	9/19/2022		Х			X				Х	X		\perp		Ц				Ц	×	4				
	BH-206 (4.5')	9/19/2022		Х			X				Х	X	Ш			Ш				Ц	×	4				
	BH-207 (4.5')	9/19/2022		Х			X				X	X				Ш		\perp	上	Ш	>		\perp			
	SW-62 (8-13')	9/19/2022		X			X				X	X	Ц		_	Ш		\perp)	<		1	\perp	
	SW-72 (0-8')	9/19/2022		X			X		<u></u>		X	X	_	1		Ш		\perp	L		/	-			\perp	
	SW-73 (6-13')	9/19/2022		X			X			1_	X	X	-		_	Ш		\perp	_)	4		1		
	SW-74 (8-13')	9/19/2022		X			X				X	X	_		_			\perp	_	Ц	'	-	\perp	1	\perp	
	SW-75 (0-4.5')	9/19/2022		X			X	_		_	X	X		_	+	\sqcup	-	+	+	\sqcup	- 2	┿		+	+	=
	SW-76 (0-4.5')	9/19/2022		X			X				X	X						1)	(
Relinguished b	1- L- 9/20/22	Received by	9	9	.6	Date: 20 'ô Date:	12	ne:			-			DNLY		X			ND/			4 hr	48	nr 7	2 hr	
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Analysis Re	equest of Chain of Custody Record																					Page	9		4	of _	4	10/3/2022
TŁ	Tetra Tech, Inc.				901W W Midland, Tel (432	Texas 7 2) 682-4	79705																					
Client Name:	Permian Water Solutions	Site Manager:		Cla	ir Go	-		10				A	NAL	YSIS					200	is.	B.A.	etho	od N					
Project Name:	Kaiser SWD		Clair.Go	nzale	s@te	trate	ech.c	om				1	1	1					pec) II y			Ī				1	
Project Location (county, state)	Lea County, N M	Project #:			212C	-MD	-022	30																list)				
Invoice to: Receiving Labor		Sampler Signs	iture:		Peyto	on Ol	iver						MPO	(CVI)	Se Hg	Se Fg								attached				
Comments:	Eurofins Xenco				, 0,10							(8260B	TX1005 (Ext to C35)		Cd Cr Pb	a Cd Cr Pb			8270C/625				TDS	Chemistry (see	R			
		SAMP	LING	M	ATRIX	F	RESE	RVATI	VE	ERS	(X/N)	B BTEX	5 (Ext to		Ag As Ba	s Ag As B	Volatiles		8260B7	1,608		(sot)	Sulfate	ater Cher	II Dalai			
LAB #	SAMPLE IDENTIFICATION	YEAR: 2020	TIME	WATER	SOIL	호	HNO3	Youe		# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH TX1005 (Ext to C35)		Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals A	P Sem	RCI	GC/MS Vol. 8260B / 624	PCB's 8082/608	NORM	PLM (Asbestos)	Chloride	General Water Chemist	Allion vac		Hold	70 04 72
	SW-77 (0-4.5')	9/19/2022			X		×	_				X	×	-								X						Page 7
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		ORIGINAL										(Circ	cle) H	AND I	DELIN	EREC							TRR	P Rep	xort			}

Login Sample Receipt Checklist

Client: Tetra Tech, Inc. Job Number: 890-3011-1

Answer

Comment

SDG Number: Lea County NM

Login Number: 3011 List Number: 1

List Source: Eurofins Carlsbad

Creator: Clifton, Cloe

Question

The cooler's custody seal, if present, is intact.

Sample custody seals, if present, are intact.

The cooler or samples do not appear to have been compromised or tampered with.

Samples were received on ice.

Cooler Temperature is acceptable.

Cooler Temperature is recorded.

COC is present.

COC is filled out in ink and legible.

COC is filled out with all pertinent information.

Is the Field Sampler's name present on COC?

There are no discrepancies between the containers received and the COC.

Samples are received within Holding Time (excluding tests with immediate HTs)

Sample containers have legible labels.

Containers are not broken or leaking.

Sample collection date/times are provided.

Appropriate sample containers are used.

Sample bottles are completely filled.

Sample Preservation Verified.

There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs

Containers requiring zero headspace have no headspace or bubble is

<6mm (1/4").

Eurofins Carlsbad

Released to Imaging: 9/1/2023 2:55:43 PM

There is sufficient vol. for all requested analyses, incl. any requested

Containers requiring zero headspace have no headspace or bubble is

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-3011-1

SDG Number: Lea County NM

List Source: Eurofins Midland

List Creation: 09/21/22 11:23 AM

Login Number: 3011 List Number: 2

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	

True

N/A

Eurofins Carlsbad

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MS/MSDs

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-3411-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Kaiser SWD

For:

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Clair Gonzales

RAMER

Authorized for release by: 11/14/2022 3:38:41 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-3411-1 SDG: Lea County NM

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Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 890-3411-1 Project/Site: Kaiser SWD SDG: Lea County NM

Qualifiers

GC VOA	١
Qualifier	

Qualifici	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Qualifier Description

Qualifier Description

GC Semi VOA

Qualifici	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier

Qualifier	Qualifier Description
F1	MS and/or MSD recovery e

exceeds control limits. U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery **CFL** Contains Free Liquid CFU Colony Forming Unit

CNF Contains No Free Liquid DER

Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

These commonly used abbreviations may or may not be present in this report.

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

Presumptive **PRES Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) TFO

TNTC Too Numerous To Count

Case Narrative

Client: Tetra Tech, Inc.

Job ID: 890-3411-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Job ID: 890-3411-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3411-1

Receipt

The samples were received on 11/7/2022 2:58 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 29.8°C

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: BH-210 (10') (890-3411-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-39172 and analytical batch 880-39269 was outside the upper control limits.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-39172 and analytical batch 880-39269 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-39141 and analytical batch 880-39275 was outside the upper control limits.

Method 8015MOD_NM: The matrix spike duplicate (MSD) recoveries for preparation batch 880-39141 and analytical batch 880-39275 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-39128 and 880-39128 and analytical batch 880-39334 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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1 1

Matrix: Solid

Lab Sample ID: 890-3411-1

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-3411-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-200 (10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Sample Depth: 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 22:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 22:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 22:14	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/09/22 15:36	11/12/22 22:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 22:14	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/09/22 15:36	11/12/22 22:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				11/09/22 15:36	11/12/22 22:14	1
1,4-Difluorobenzene (Surr)	106		70 - 130				11/09/22 15:36	11/12/22 22:14	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/14/22 16:13	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)						
Method: SW846 8015 NM - Diese Analyte		ics (DRO) ((GC)	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/14/22 14:30	Dil Fac
Analyte Total TPH	Result 74.9	Qualifier	RL 50.0	MDL		<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies	Result 74.9 sel Range Orga	Qualifier	RL 50.0			<u>D</u>		11/14/22 14:30	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	Result 74.9 sel Range Orga	Qualifier nics (DRO) Qualifier	RL 50.0		mg/Kg	_ =	Prepared 11/09/22 15:38		1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies	Result 74.9 sel Range Orga	Qualifier nics (DRO) Qualifier	RL 50.0		mg/Kg	_ =	Prepared	11/14/22 14:30 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result 74.9 sel Range Orga	Qualifier nics (DRO) Qualifier	RL 50.0		mg/Kg	_ =	Prepared	11/14/22 14:30 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 74.9 sel Range Orga Result < 50.0 74.9	Qualifier nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 11/09/22 15:38	Analyzed 11/11/22 13:54 11/11/22 13:54	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 74.9 sel Range Orga Result < 50.0	Qualifier nics (DRO) Qualifier U	(GC) RL 50.0		mg/Kg Unit mg/Kg	_ =	Prepared 11/09/22 15:38	11/14/22 14:30 Analyzed 11/11/22 13:54	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 74.9	Qualifier nics (DRO) Qualifier U	RL 50.0		mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 11/09/22 15:38 11/09/22 15:38 11/09/22 15:38 Prepared	Analyzed 11/11/22 13:54 11/11/22 13:54 11/11/22 13:54 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 74.9	Qualifier nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 11/09/22 15:38 11/09/22 15:38	Analyzed 11/11/22 13:54 11/11/22 13:54 11/11/22 13:54	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result 74.9	Qualifier nics (DRO) Qualifier U	RL 50.0		mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 11/09/22 15:38 11/09/22 15:38 11/09/22 15:38 Prepared	Analyzed 11/11/22 13:54 11/11/22 13:54 11/11/22 13:54 Analyzed	Dil Face 1 Dil Face 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result 74.9	Qualifier nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 11/09/22 15:38 11/09/22 15:38 11/09/22 15:38 Prepared 11/09/22 15:38	Analyzed 11/11/22 13:54 11/11/22 13:54 11/11/22 13:54 Analyzed 11/11/22 13:54	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result 74.9	Qualifier nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 11/09/22 15:38 11/09/22 15:38 11/09/22 15:38 Prepared 11/09/22 15:38	Analyzed 11/11/22 13:54 11/11/22 13:54 11/11/22 13:54 Analyzed 11/11/22 13:54	1 Dil Fac 1 1 1 1 Dil Fac 1

Client Sample ID: BH-201 (10')

Date Collected: 11/07/22 00:00

Date Received: 11/07/22 14:58

Sample Depth: 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/12/22 22:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/12/22 22:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/12/22 22:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/09/22 15:36	11/12/22 22:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/12/22 22:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 15:36	11/12/22 22:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				11/09/22 15:36	11/12/22 22:35	1

Eurofins Carlsbad

Lab Sample ID: 890-3411-2

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-3411-2

Lab Sample ID: 890-3411-3

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-3411-1
Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-201 (10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Sample Depth: 10

Method: SW846 8021B	- Volatile Organic	Compounds	(GC)	(Continued)	
	Tolutile Organic	· compounds	(,	(Continuou)	

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	114	70 - 130	11/09/22 15:36	11/12/22 22:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	ı	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg				11/14/22 16:13	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	74.3	50.0	mg/Kg			11/14/22 14:30	1

	Mothod: SW046 904ED NM Diocol Dan	go Organico (DBO) (CC)	v
ı	Method: SW846 8015B NM - Diesel Ran	ge Organics (DRO) (GC)	,

		()	(/					
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/09/22 15:38	11/11/22 14:16	1
Diesel Range Organics (Over C10-C28)	74.3		50.0	mg/Kg		11/09/22 15:38	11/11/22 14:16	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/09/22 15:38	11/11/22 14:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Pi	repared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	11/0	9/22 15:38	11/11/22 14:16	1
o-Terphenyl	109		70 - 130	11/0	9/22 15:38	11/11/22 14:16	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1300		49.6		mg/Kg			11/12/22 01:40	10

Client Sample ID: BH-204 (10')

Date Collected: 11/07/22 00:00

Date Received: 11/07/22 14:58

Sample Depth: 10

Mothodi	CIMOAC GOOAD	Valatile Or	ganic Compour	de (CC)
i wethod:	5W846 8U21B	- volatile Ur	danic Compour	ias (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 22:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 22:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 22:56	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/09/22 15:36	11/12/22 22:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 22:56	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/09/22 15:36	11/12/22 22:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				11/09/22 15:36	11/12/22 22:56	1
1,4-Difluorobenzene (Surr)	116		70 - 130				11/09/22 15:36	11/12/22 22:56	1

Mothod: TAI	SOP Total RTFY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL Uni	t D	Prepa	ared Analyzed	Dil Fac
Total BTEX	< 0.00401	U	0.00401	ma/	Ka	· ·	11/14/22 16:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC	Method:	: SW846 8015 N	M - Diesel R	ange Ord	ianics (DRO)	(GC
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Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/14/22 14:30	1

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-3411-1 SDG: Lea County NM

Client Sample ID: BH-204 (10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Sample Depth: 10

Lab Sample ID: 890-3411-3

Matrix: Solid

Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/09/22 15:38	11/11/22 14:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/09/22 15:38	11/11/22 14:37	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/09/22 15:38	11/11/22 14:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				11/09/22 15:38	11/11/22 14:37	1
o-Terphenyl	118		70 - 130				11/09/22 15:38	11/11/22 14:37	1
Method: MCAWW 300.0 - Anions	, Ion Chromato	ography - S	oluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2010		25.0		mg/Kg			11/12/22 01:47	5

Client Sample ID: BH-205 (10') Lab Sample ID: 890-3411-4 Date Collected: 11/07/22 00:00 Matrix: Solid

Date Received: 11/07/22 14:58

Sample Depth: 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 23:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 23:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 23:17	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/09/22 15:36	11/12/22 23:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 23:17	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/09/22 15:36	11/12/22 23:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				11/09/22 15:36	11/12/22 23:17	1
1,4-Difluorobenzene (Surr)	114		70 - 130				11/09/22 15:36	11/12/22 23:17	1

Method: TAL SOP Total BTEX - Tot	al BTEX Calc	ulation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/14/22 16:13	1

Method: SW846 8015 NM - Diesel F	Range Organi	cs (DRO) (0	SC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/14/22 14:30	1

(GRO)-C6-C10		Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	5 5	<50.0	U	50.0		mg/Kg		11/09/22 15:38	11/11/22 14:59	1
	0 0 (<50.0	U	50.0		mg/Kg		11/09/22 15:38	11/11/22 14:59	1
OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 11/09/22 15:3	Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/09/22 15:38	11/11/22 14:59	1

70 - 130 11/09/22 15:38 11/11/22 14:59 1-Chlorooctane 88 o-Terphenyl 70 - 130 11/09/22 15:38 11/11/22 14:59

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-3411-1

SDG: Lea County NM

Client Sample ID: BH-205 (10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Sample Depth: 10

Lab Sample ID: 890-3411-4

Matrix: Solid

Method: MCAWW 300.0 - Anions, le	on Chromato	graphy - Solu	ıble						
Analyte	Result	Qualifier	RL	MDL U	nit	D	Prepared	Analyzed	Dil Fac
Chloride	1480		25.1	m	ng/Kg			11/12/22 01:54	5

Client Sample ID: BH-206 (10') Lab Sample ID: 890-3411-5 **Matrix: Solid**

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Sample Depth: 10

Total BTEX

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:36	11/12/22 23:37	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:36	11/12/22 23:37	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:36	11/12/22 23:37	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/09/22 15:36	11/12/22 23:37	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:36	11/12/22 23:37	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/09/22 15:36	11/12/22 23:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				11/09/22 15:36	11/12/22 23:37	1
1,4-Difluorobenzene (Surr)	116		70 - 130				11/09/22 15:36	11/12/22 23:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/14/22 14:30	1
Method: SW846 8015B NM - Diesel Pa	nge Orgs	nice (DPO) (3C)						

0.00402

<0.00402 U

MDL Unit

mg/Kg

Prepared

Analyzed

11/14/22 16:13

Dil Fac

Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		11/09/22 15:38	11/11/22 15:21	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/09/22 15:38	11/11/22 15:21	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/09/22 15:38	11/11/22 15:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				11/09/22 15:38	11/11/22 15:21	1
o-Terphenyl	109		70 - 130				11/09/22 15:38	11/11/22 15:21	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2290		25.2		mg/Kg			11/12/22 02:01	5

Matrix: Solid

Lab Sample ID: 890-3411-6

Client: Tetra Tech, Inc.

Job ID: 890-3411-1
Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-208 (10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Sample Depth: 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/12/22 23:58	1
Toluene	< 0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/12/22 23:58	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/12/22 23:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/09/22 15:36	11/12/22 23:58	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/12/22 23:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 15:36	11/12/22 23:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				11/09/22 15:36	11/12/22 23:58	1
1,4-Difluorobenzene (Surr)	114		70 - 130				11/09/22 15:36	11/12/22 23:58	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/14/22 16:13	1
-									
Method: SW846 8015 NM - Diese Analyte	•	ics (DRO) (Qualifier	GC)	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	•	Qualifier	•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/14/22 14:30	
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9	MDL		<u>D</u>	Prepared		
Analyte	Result <49.9 sel Range Orga	Qualifier U	RL 49.9	MDL MDL	mg/Kg	<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	Result <49.9 sel Range Orga	Qualifier Unics (DRO) Qualifier	RL 49.9 (GC)		mg/Kg		· ·	11/14/22 14:30	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	(GC)		mg/Kg		Prepared	11/14/22 14:30 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9 sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U	(GC) RL 49.9		mg/Kg Unit mg/Kg		Prepared 11/09/22 15:38	11/14/22 14:30 Analyzed 11/11/22 15:43	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/09/22 15:38	Analyzed 11/11/22 15:43 11/11/22 15:43	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/09/22 15:38 11/09/22 15:38	Analyzed 11/11/22 15:43 11/11/22 15:43 11/11/22 15:43	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/09/22 15:38 11/09/22 15:38 11/09/22 15:38 Prepared	Analyzed 11/11/22 15:43 11/11/22 15:43 11/11/22 15:43 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/09/22 15:38 11/09/22 15:38 11/09/22 15:38 Prepared 11/09/22 15:38	Analyzed 11/11/22 15:43 11/11/22 15:43 11/11/22 15:43 Analyzed 11/11/22 15:43	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.9	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg		Prepared 11/09/22 15:38 11/09/22 15:38 11/09/22 15:38 Prepared 11/09/22 15:38	Analyzed 11/11/22 15:43 11/11/22 15:43 11/11/22 15:43 Analyzed 11/11/22 15:43	Dil Fac 1 Dil Fac 1 1 Dil Fac 1 Dil Fac

Client Sample ID: BH-209 (10')

Date Collected: 11/07/22 00:00

Date Received: 11/07/22 14:58

Sample Depth: 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 00:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 00:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 00:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/09/22 15:36	11/13/22 00:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 00:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 15:36	11/13/22 00:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				11/09/22 15:36	11/13/22 00:19	1

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Lab Sample ID: 890-3411-7

Matrix: Solid

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-3411-1

SDG: Lea County NM

Client Sample ID: BH-209 (10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Sample Depth: 10

Lab Sample ID: 890-3411-7

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

%Recovery Qualifier Limits Prepared Surrogate Analyzed Dil Fac 70 - 130 11/09/22 15:36 1,4-Difluorobenzene (Surr) 115 11/13/22 00:19

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared Total BTEX <0.00398 0.00398 11/14/22 16:13 mg/Kg

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total TPH <50.0 50.0 mg/Kg 11/14/22 14:30

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac <50.0 U 50.0 mg/Kg 11/11/22 16:26 Gasoline Range Organics 11/09/22 15:38 (GRO)-C6-C10 <50.0 U 50.0 11/09/22 15:38 11/11/22 16:26 Diesel Range Organics (Over mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 11/09/22 15:38 11/11/22 16:26

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 117 70 - 130 11/09/22 15:38 11/11/22 16:26 o-Terphenyl 124 70 - 130 11/09/22 15:38 11/11/22 16:26

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 49.6 11/12/22 02:30 Chloride 4470 mg/Kg

Client Sample ID: BH-210 (10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Sample Depth: 10

REMOVED FROM **ANALYSIS TABLE** Lab Sample ID: 890-3411-8

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Benzene <0.00200 0.00200 mg/Kg 11/09/22 15:36 11/13/22 00:40 0.00200 11/09/22 15:36 11/13/22 00:40 mg/Kg **Toluene** 0.0775 0.00200 11/09/22 15:36 11/13/22 00:40 Ethylbenzene 0.0695 mg/Kg 0.00399 11/13/22 00:40 11/09/22 15:36 m-Xylene & p-Xylene mg/Kg 0.135 o-Xylene 0.0758 0.00200 mg/Kg 11/09/22 15:36 11/13/22 00:40 0.00399 mg/Kg 11/09/22 15:36 11/13/22 00:40 **Xylenes, Total** 0.211

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed S1+ 70 - 130 4-Bromofluorobenzene (Surr) 134 11/09/22 15:36 11/13/22 00:40 1,4-Difluorobenzene (Surr) 99 70 - 130 11/09/22 15:36 11/13/22 00:40

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier MDL D RL Unit Prepared Analyzed Dil Fac 0.00399 11/14/22 16:13 **Total BTEX** 0.358 mg/Kg

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac **Total TPH** 50.0 11/14/22 14:30 2430 mg/Kg

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-3411-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-210 (10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-3411-8

Matrix: Solid

Sample Depth: 10

Method: SW846 8015B NM - Die Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	61.9		50.0		mg/Kg		11/09/22 15:38	11/11/22 16:48	1
Diesel Range Organics (Over C10-C28)	2130		50.0		mg/Kg		11/09/22 15:38	11/11/22 16:48	1
Oll Range Organics (Over C28-C36)	237		50.0		mg/Kg		11/09/22 15:38	11/11/22 16:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				11/09/22 15:38	11/11/22 16:48	1
o-Terphenyl	111		70 - 130				11/09/22 15:38	11/11/22 16:48	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Analyte RLMDL Unit Prepared Analyzed Dil Fac Chloride 2270 25.0 mg/Kg 11/12/22 02:37

Client Sample ID: BH-211 (10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Sample Depth: 10

Lab Sample ID: 890-3411-9 **Matrix: Solid**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 01:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 01:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 01:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/09/22 15:36	11/13/22 01:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 01:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 15:36	11/13/22 01:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	11/09/22 15:36	11/13/22 01:00	1
1,4-Difluorobenzene (Surr)	115		70 - 130	11/09/22 15:36	11/13/22 01:00	1

Method:	IAL SUP	lotal B I EX	- Iotal B	EX Calc	culation
Analyte				Result	Qualifier

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/14/22 16:13	1

Method: SW846 8015 NM - I	iesel Range Organics (DRO) (GC)		
Δnalvte	Result Qualifier	RI	MDI I

Analyte	Result	Qualifier	RL	MDL Un	it D)	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg	/Kg			11/14/22 14:30	1

ı	Analyte	Result	Qualifier	RL	MDL U	Init	D	Prepared	Analyzed	Dil Fac
l	Gasoline Range Organics	<50.0	U	50.0	m	ng/Kg		11/09/22 15:38	11/11/22 17:09	1
	(GRO)-C6-C10									
	Diesel Range Organics (Over	<50.0	U	50.0	m	ng/Kg		11/09/22 15:38	11/11/22 17:09	1
	C10-C28)									
	OII Range Organics (Over C28-C36)	<50.0	U	50.0	m	ng/Kg		11/09/22 15:38	11/11/22 17:09	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120	70 - 130	11/09/22 15:38	11/11/22 17:09	1
o-Terphenyl	129	70 - 130	11/09/22 15:38	11/11/22 17:09	1

Eurofins Carlsbad

11/14/2022

Dil Fac

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-3411-1

SDG: Lea County NM

Client Sample ID: BH-211 (10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Sample Depth: 10

Lab Sample ID: 890-3411-9

Matrix: Solid

Method: MCAWW 300.0 - Anions,	ion Chromatography - So	oluble					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2230	24.9	mg/Kg			11/12/22 02:44	5

Client Sample ID: BH-212 (10') Lab Sample ID: 890-3411-10 **Matrix: Solid**

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Method: TAL SOP Total BTEX - Total BTEX Calculation

Sample Depth: 10

Analyte

1-Chlorooctane

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 01:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 01:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 01:21	1
m-Xylene & p-Xylene	0.0209		0.00398		mg/Kg		11/09/22 15:36	11/13/22 01:21	1
o-Xylene	0.0186		0.00199		mg/Kg		11/09/22 15:36	11/13/22 01:21	1
Xylenes, Total	0.0395		0.00398		mg/Kg		11/09/22 15:36	11/13/22 01:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				11/09/22 15:36	11/13/22 01:21	1
1,4-Difluorobenzene (Surr)	101		70 - 130				11/09/22 15:36	11/13/22 01:21	1

Analyte	itesuit Qualifier	INL	WIDE OILL	rrepareu	Allalyzeu	Diriac	
Total BTEX	0.0395	0.00398	mg/Kg		11/14/22 16:13	1	
 Method: SW846 8015 NM - Diesel R	tange Organics (DRO) (GC)					

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	228		50.0		mg/Kg			11/14/22 14:30	1
Method: SW846 8015B NM - Diesel	Range Orga	nics (DRO) (GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		11/09/22 15:38	11/11/22 17:32	1
(GRO)-C6-C10									

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	11/09/22 15:38	11/11/22 17:32	1
Diesel Range Organics (Over C10-C28)	228		50.0	mg/Kg	11/09/22 15:38	11/11/22 17:32	1

70 - 130

70 - 130

99

102

Method: MCAWW 300.0 - Anions, I	on Chromato	graphy - So	oluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2970		25.2		mg/Kg			11/12/22 02:51	5

Eurofins Carlsbad

11/09/22 15:38

11/09/22 15:38

11/11/22 17:32

11/11/22 17:32

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Client Sample ID: SW-75 (4-10') Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Method: SW846 8021B - Volatile Organic Compounds (GC)

Sample Depth: 4 - 10

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-3411-11

Matrix: Solid

Job ID: 890-3411-1

SDG: Lea County NM

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/13/22 02:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/13/22 02:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/13/22 02:45	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/09/22 15:36	11/13/22 02:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/13/22 02:45	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/09/22 15:36	11/13/22 02:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				11/09/22 15:36	11/13/22 02:45	1
1,4-Difluorobenzene (Surr)	100		70 - 130				11/09/22 15:36	11/13/22 02:45	1
- Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			11/14/22 16:13	1
Method: SW846 8015 NM - Diese Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/14/22 14:30	
									1
Method: SW846 8015B NM - Die:	sel Range Orga	nics (DRO)	(GC)						1
Method: SW846 8015B NM - Dies Analyte		nics (DRO) Qualifier	(GC)	MDL	Unit	D	Prepared	Analyzed	1 Dil Fac
		Qualifier	• •	MDL	Unit mg/Kg	<u>D</u>	Prepared 11/09/22 15:38	Analyzed 11/11/22 17:54	
Analyte Gasoline Range Organics	Result	Qualifier U	RL	MDL		<u>D</u>			Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0	Qualifier U	RL 50.0	MDL	mg/Kg	<u> </u>	11/09/22 15:38	11/11/22 17:54	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U U U	FL 50.0	MDL	mg/Kg mg/Kg	<u> </u>	11/09/22 15:38 11/09/22 15:38	11/11/22 17:54	Dil Fac 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 <50.0 <50.0	Qualifier U U U	FL 50.0 50.0 50.0	MDL	mg/Kg mg/Kg	<u>D</u>	11/09/22 15:38 11/09/22 15:38 11/09/22 15:38	11/11/22 17:54 11/11/22 17:54 11/11/22 17:54	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U U U	50.0 50.0 50.0 <i>Limits</i>	MDL	mg/Kg mg/Kg	<u> </u>	11/09/22 15:38 11/09/22 15:38 11/09/22 15:38 Prepared	11/11/22 17:54 11/11/22 17:54 11/11/22 17:54 Analyzed	Dil Fac 1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U U Qualifier	8L 50.0 50.0 50.0 Limits 70 - 130 70 - 130	MDL	mg/Kg mg/Kg	<u> </u>	11/09/22 15:38 11/09/22 15:38 11/09/22 15:38 Prepared 11/09/22 15:38	11/11/22 17:54 11/11/22 17:54 11/11/22 17:54 Analyzed 11/11/22 17:54	Dil Fac 1 1 1 Dil Fac 1

Client Sample ID: SW-78 (4-10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58 Sample Depth: 4 - 10

Chloride

REMOVED FROM ANALYSIS TABLE

14500 F1

Lab Sample ID: 890-3411-12

11/12/22 02:58

Matrix: Solid

Method: SW846 8021B - Volati	le Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:36	11/13/22 03:05	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:36	11/13/22 03:05	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:36	11/13/22 03:05	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/09/22 15:36	11/13/22 03:05	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:36	11/13/22 03:05	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/09/22 15:36	11/13/22 03:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				11/09/22 15:36	11/13/22 03:05	1

100

mg/Kg

Client Sample Results

Job ID: 890-3411-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-78 (4-10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58 Sample Depth: 4 - 10

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-3411-12

Matrix: Solid

Method: SW846 8021B - Volatile O	rganic Compounds (GC	(Continued)
	0/5 0 ""	,

%Recovery Prepared Surrogate Qualifier Limits Analyzed Dil Fac 11/09/22 15:36 1,4-Difluorobenzene (Surr) 120 70 - 130 11/13/22 03:05

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared Total BTEX <0.00402 0.00402 11/14/22 16:13 mg/Kg

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total TPH <49.9 U 49.9 11/14/22 14:30 mg/Kg

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Result Qualifier MDL Unit Analyte RL D Prepared Analyzed Dil Fac Gasoline Range Organics <49.9 U 49.9 11/11/22 18:15 mg/Kg 11/09/22 15:38 (GRO)-C6-C10 <49.9 U 49.9 mg/Kg 11/09/22 15:38 11/11/22 18:15 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 11/09/22 15:38 11/11/22 18:15 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac

1-Chlorooctane 111 o-Terphenyl 121

70 - 130 11/09/22 15:38 11/11/22 18:15 70 - 130 11/09/22 15:38 11/11/22 18:15

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 250 11/12/22 03:20 Chloride 15800 mg/Kg 50

Client Sample ID: SW-79 (4-10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58 Sample Depth: 4 - 10

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-3411-13

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)
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Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/09/22 15:36	11/13/22 03:26	1
Toluene	< 0.00199	U	0.00199	mg/Kg		11/09/22 15:36	11/13/22 03:26	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		11/09/22 15:36	11/13/22 03:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/09/22 15:36	11/13/22 03:26	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		11/09/22 15:36	11/13/22 03:26	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/09/22 15:36	11/13/22 03:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			11/09/22 15:36	11/13/22 03:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	11/09/22 15:36	11/13/22 03:26	1
1,4-Difluorobenzene (Surr)	114		70 - 130	11/09/22 15:36	11/13/22 03:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL MDL D Unit Prepared Analyzed Dil Fac Total BTEX <0.00398 0.00398 11/14/22 16:13 mg/Kg

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total TPH <49.9 U 49.9 11/14/22 14:30 mg/Kg

Client: Tetra Tech, Inc. Job ID: 890-3411-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-79 (4-10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58 Sample Depth: 4 - 10

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-3411-13

Lab Sample ID: 890-3411-14

Matrix: Solid

Matrix: Solid

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/09/22 15:38	11/11/22 18:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/09/22 15:38	11/11/22 18:37	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/09/22 15:38	11/11/22 18:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				11/09/22 15:38	11/11/22 18:37	1
o-Terphenyl	116		70 - 130				11/09/22 15:38	11/11/22 18:37	1
Method: MCAWW 300.0 - Anions	, Ion Chromato	graphy - S	oluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1120		24.8		mg/Kg			11/12/22 03:27	5

Client Sample ID: SW-80 (4.5-10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Sample Depth: 4.5 - 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 03:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 03:47	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 03:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/09/22 15:36	11/13/22 03:47	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 03:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 15:36	11/13/22 03:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				11/09/22 15:36	11/13/22 03:47	1
1,4-Difluorobenzene (Surr)	107		70 - 130				11/09/22 15:36	11/13/22 03:47	1
Method: TAL SOP Total BTEX - T	otal BTEX Cal	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/14/22 16:13	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	263		50.0		mg/Kg			11/14/22 14:30	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
•									
Gasoline Range Organics	<50.0		50.0		mg/Kg		11/09/22 15:38	11/11/22 18:59	1
			50.0		mg/Kg				1
(GRO)-C6-C10 Diesel Range Organics (Over					mg/Kg		11/09/22 15:38 11/09/22 15:38	11/11/22 18:59 11/11/22 18:59	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 263	U	50.0		mg/Kg		11/09/22 15:38	11/11/22 18:59	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0	U	50.0						
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0 263	U	50.0		mg/Kg		11/09/22 15:38	11/11/22 18:59	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 263 <50.0	U	50.0 50.0 50.0		mg/Kg		11/09/22 15:38 11/09/22 15:38	11/11/22 18:59 11/11/22 18:59	1

Client: Tetra Tech, Inc.

Job ID: 890-3411-1
Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-80 (4.5-10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Sample Depth: 4.5 - 10

Lab Sample ID: 890-3411-14

Matrix: Solid

Method: MCAWW 300.0 - Anions, Ion Chromatography - SolubleAnalyteResult ChlorideQualifierRL MDL mg/KgUnit mg/KgD mg/KgPrepared Prepared Manalyzed

Client Sample ID: SW-81 (4.5-10')

Date Collected: 11/07/22 00:00

Lab Sample ID: 890-3411-15

Matrix: Solid

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Sample Depth: 4.5 - 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/13/22 04:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/13/22 04:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/13/22 04:07	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		11/09/22 15:36	11/13/22 04:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/13/22 04:07	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		11/09/22 15:36	11/13/22 04:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				11/09/22 15:36	11/13/22 04:07	1
1,4-Difluorobenzene (Surr)	103		70 - 130				11/09/22 15:36	11/13/22 04:07	1
Method: TAL SOP Total BTEX - T	Total BTEX Cald	culation							
	D14	O	DI.	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	RL	MDL	Ullit		riepaieu	Allalyzou	
Total BTEX	<0.00401		0.00401	MIDL	mg/Kg	=		11/14/22 16:13	1
Total BTEX	<0.00401	U	0.00401	MDL		_ =	- Frepareu		1
Total BTEX Method: SW846 8015 NM - Diese	<0.00401	ics (DRO) (0.00401 GC)		mg/Kg			11/14/22 16:13	1
Total BTEX	<0.00401	U	0.00401 GC)				Prepared		1 Dil Fac
Total BTEX Method: SW846 8015 NM - Diese	<0.00401	ics (DRO) (0.00401 GC)		mg/Kg			11/14/22 16:13	1
Total BTEX Method: SW846 8015 NM - Diese Analyte	<0.00401 el Range Organ Result 192	ics (DRO) ((Qualifier	0.00401 GC) RL 49.9		mg/Kg			11/14/22 16:13 Analyzed	1
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH	<0.00401 el Range Organ Result 192 sel Range Orga	ics (DRO) ((Qualifier	0.00401 GC) RL 49.9		mg/Kg Unit mg/Kg			11/14/22 16:13 Analyzed	1
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese	<0.00401 el Range Organ Result 192 sel Range Orga	ics (DRO) (Qualifier	0.00401 GC) RL 49.9	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	11/14/22 16:13 Analyzed 11/14/22 14:30	Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<0.00401 el Range Organ Result 192 sel Range Orga Result	ics (DRO) (Qualifier	0.00401 GC) RL 49.9 (GC) RL	MDL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	11/14/22 16:13 Analyzed 11/14/22 14:30 Analyzed	Dil Fac Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	<0.00401 el Range Organ Result 192 sel Range Orga Result sel-kg-kg-kg-kg-kg-kg-kg-kg-kg-kg-kg-kg-kg-	U ics (DRO) (Qualifier nics (DRO) Qualifier U	0.00401 GC) RL 49.9 (GC) RL 49.9	MDL	mg/Kg Unit mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared 11/09/22 15:38	Analyzed 11/11/22 19:21	Dil Fac Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<0.00401 el Range Organ Result 192 sel Range Orga Result <49.9	U ics (DRO) (Qualifier nics (DRO) Qualifier U	0.00401 GC) RL 49.9 (GC) RL 49.9	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared Prepared 11/09/22 15:38 11/09/22 15:38	Analyzed 11/14/22 16:13 Analyzed 11/14/22 14:30 Analyzed 11/11/22 19:21 11/11/22 19:21	Dil Fac Dil Fac
Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<0.00401 el Range Organ Result 192 sel Range Orga Result <49.9 192 <49.9	U ics (DRO) (Qualifier nics (DRO) Qualifier U	0.00401 GC) RL 49.9 (GC) RL 49.9 49.9	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared Prepared 11/09/22 15:38 11/09/22 15:38	Analyzed 11/14/22 16:13 Analyzed 11/14/22 14:30 Analyzed 11/11/22 19:21 11/11/22 19:21 11/11/22 19:21	Dil Fac Dil Fac 1 1 1

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Analyzed

11/12/22 03:55

RL

100

MDL Unit

mg/Kg

D

Prepared

Dil Fac

20

Analyte

Chloride

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

Matrix: Solid

Lab Sample ID: 890-3411-16

Client: Tetra Tech, Inc.

Job ID: 890-3411-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-82 (4.5-10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Sample Depth: 4.5 - 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:36	11/13/22 04:28	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:36	11/13/22 04:28	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:36	11/13/22 04:28	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/09/22 15:36	11/13/22 04:28	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:36	11/13/22 04:28	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/09/22 15:36	11/13/22 04:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				11/09/22 15:36	11/13/22 04:28	1
1,4-Difluorobenzene (Surr)	111		70 - 130				11/09/22 15:36	11/13/22 04:28	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			11/14/22 16:13	1
	•	, , ,							
Analyte Total TPH	Result 216	Qualifier	RL 49.8	MDL	Unit mg/Kg	D	Prepared	Analyzed 11/14/22 14:30	
Total TPH	216	<u> </u>	49.8	MDL		<u>D</u>	Prepared		
Total TPH Method: SW846 8015B NM - Die	216 esel Range Orga	nics (DRO)	49.8 (GC)		mg/Kg	-		11/14/22 14:30	1
Total TPH Method: SW846 8015B NM - Die Analyte	216 sel Range Orga Result	nics (DRO) Qualifier	49.8 (GC)		mg/Kg	<u>D</u>	Prepared	11/14/22 14:30 Analyzed	1 Dil Fac
Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	216 esel Range Orga	nics (DRO) Qualifier	49.8 (GC)		mg/Kg	-		11/14/22 14:30	1
Total TPH Method: SW846 8015B NM - Die Analyte	216 sel Range Orga Result	nics (DRO) Qualifier	49.8 (GC)		mg/Kg	-	Prepared	11/14/22 14:30 Analyzed	Dil Fac
Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	216 ssel Range Orga Result 249.8	nics (DRO) Qualifier U	49.8 (GC) RL 49.8		mg/Kg Unit mg/Kg	-	Prepared 11/09/22 15:38	11/14/22 14:30 Analyzed 11/11/22 19:43	Dil Fac
Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	esel Range Orga Result <49.8	nics (DRO) Qualifier U	49.8 (GC) RL 49.8 49.8		mg/Kg Unit mg/Kg mg/Kg	-	Prepared 11/09/22 15:38 11/09/22 15:38	Analyzed 11/11/22 19:43 11/11/22 19:43	1 Dil Fac
Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	216 ssel Range Orga Result <49.8 249.8	nics (DRO) Qualifier U	49.8 (GC) RL 49.8 49.8 49.8		mg/Kg Unit mg/Kg mg/Kg	-	Prepared 11/09/22 15:38 11/09/22 15:38	Analyzed 11/11/22 19:43 11/11/22 19:43 11/11/22 19:43	Dil Fac 1 1 Dil Fac Dil Fac
Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	216 ssel Range Orga Result <49.8 216 <49.8 %Recovery	nics (DRO) Qualifier U	49.8 (GC) RL 49.8 49.8 49.8 Limits		mg/Kg Unit mg/Kg mg/Kg	-	Prepared 11/09/22 15:38 11/09/22 15:38 11/09/22 15:38 Prepared	Analyzed 11/11/22 19:43 11/11/22 19:43 11/11/22 19:43 Analyzed	Dil Fac
Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	216 ssel Range Orga Result 49.8 249.8 %Recovery 90 95	Qualifier U Qualifier	49.8 (GC) RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg	-	Prepared 11/09/22 15:38 11/09/22 15:38 11/09/22 15:38 Prepared 11/09/22 15:38	Analyzed 11/11/22 19:43 11/11/22 19:43 11/11/22 19:43 Analyzed 11/11/22 19:43	1 Dil Fac 1 1
Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	216	Qualifier U Qualifier	49.8 (GC) RL 49.8 49.8 49.8 Limits 70 - 130 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg	-	Prepared 11/09/22 15:38 11/09/22 15:38 11/09/22 15:38 Prepared 11/09/22 15:38	Analyzed 11/11/22 19:43 11/11/22 19:43 11/11/22 19:43 Analyzed 11/11/22 19:43	Dil Fac 1 1 1 Dil Fac 1

Client Sample ID: SW-83 (4-10)

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Date Received. 11/07/22 14:00

Sample Depth: 4 - 10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:36	11/13/22 04:49	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:36	11/13/22 04:49	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:36	11/13/22 04:49	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		11/09/22 15:36	11/13/22 04:49	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/09/22 15:36	11/13/22 04:49	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/09/22 15:36	11/13/22 04:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				11/09/22 15:36	11/13/22 04:49	1

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Matrix: Solid

Lab Sample ID: 890-3411-17

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Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-3411-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-83 (4-10)

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58 Sample Depth: 4 - 10 REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-3411-17

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Conti	nued)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	110	70 - 130	11/09/22 15:36	11/13/22 04:49	1

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00404	U	0.00404		mg/Kg			11/14/22 16:13	1	

Method: SW846 8015 NM - Diesel Rai	nge Organi	ics (DRO) (G	C)					
Analyte	Result	Qualifier	RL	MDL Uni	t D	Prepa	ared Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg	/Kg		11/14/22 09:30	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		11/10/22 08:48	11/11/22 18:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/10/22 08:48	11/11/22 18:00	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/10/22 08:48	11/11/22 18:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				11/10/22 08:48	11/11/22 18:00	1
o-Terphenyl	87		70 - 130				11/10/22 08:48	11/11/22 18:00	1

Method: MCAWW 300.0 - Anions, Id	on Chromatography - Sol	uble					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	714	4.96	mg/Kg			11/12/22 04:09	1

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-3411-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3411-1	BH-200 (10')	94	106	
890-3411-1 MS	BH-200 (10')	77	102	
890-3411-1 MSD	BH-200 (10')	95	96	
890-3411-2	BH-201 (10')	97	114	
390-3411-3	BH-204 (10')	99	116	
890-3411-4	BH-205 (10')	106	114	
890-3411-5	BH-206 (10')	102	116	
890-3411-6	BH-208 (10')	124	114	
390-3411-7	BH-209 (10')	111	115	
890-3411-8	BH-210 (10')	134 S1+	99	
890-3411-9	BH-211 (10')	123	115	
390-3411-10	BH-212 (10')	110	101	
390-3411-11	SW-75 (4-10')	104	100	
390-3411-12	SW-78 (4-10')	112	120	
390-3411-13	SW-79 (4-10')	112	114	
390-3411-14	SW-80 (4.5-10')	110	107	
390-3411-15	SW-81 (4.5-10')	114	103	
390-3411-16	SW-82 (4.5-10')	115	111	
890-3411-17	SW-83 (4-10)	108	110	
LCS 880-39140/1-A	Lab Control Sample	81	100	
LCSD 880-39140/2-A	Lab Control Sample Dup	77	104	
MB 880-39140/5-A	Method Blank	89	100	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-21336-A-28-D MS	Matrix Spike	95	92	
880-21336-A-28-E MSD	Matrix Spike Duplicate	84	80	
890-3402-A-1-G MS	Matrix Spike	86	79	
890-3402-A-1-H MSD	Matrix Spike Duplicate	82	73	
890-3411-1	BH-200 (10')	97	104	
890-3411-2	BH-201 (10')	102	109	
890-3411-3	BH-204 (10')	113	118	
890-3411-4	BH-205 (10')	88	94	
890-3411-5	BH-206 (10')	103	109	
890-3411-6	BH-208 (10')	94	102	
890-3411-7	BH-209 (10')	117	124	
890-3411-8	BH-210 (10')	108	111	
890-3411-9	BH-211 (10')	120	129	
890-3411-10	BH-212 (10')	99	102	
890-3411-11	SW-75 (4-10')	92	98	
890-3411-12	SW-78 (4-10')	111	121	
890-3411-13	SW-79 (4-10')	110	116	

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-3411-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid Prep Type: Total/NA

		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3411-14	SW-80 (4.5-10')	93	98	
890-3411-15	SW-81 (4.5-10')	95	101	
890-3411-16	SW-82 (4.5-10')	90	95	
890-3411-17	SW-83 (4-10)	88	87	
LCS 880-39141/2-A	Lab Control Sample	104	116	
LCS 880-39172/2-A	Lab Control Sample	94	97	
_CSD 880-39141/3-A	Lab Control Sample Dup	104	116	
_CSD 880-39172/3-A	Lab Control Sample Dup	107	109	
MB 880-39141/1-A	Method Blank	121	136 S1+	
MB 880-39172/1-A	Method Blank	119	134 S1+	

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

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Client: Tetra Tech, Inc. Job ID: 890-3411-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-39140/5-A

Matrix: Solid

Analysis Batch: 39369

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 39140

ı		MB	MR							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 21:52	1
	Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 21:52	1
	Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 21:52	1
I	m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/09/22 15:36	11/12/22 21:52	1
	o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 21:52	1
	Xylenes, Total	< 0.00400	U	0.00400		mg/Kg		11/09/22 15:36	11/12/22 21:52	1
ı										

MB MB

MD MD

Surrogate	%Recovery G	Qualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89	70 - 130	11/09/22 15:36	11/12/22 21:52	1
1,4-Difluorobenzene (Surr)	100	70 - 130	11/09/22 15:36	11/12/22 21:52	1

Lab Sample ID: LCS 880-39140/1-A

Matrix: Solid

Analysis Batch: 39369

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 39140

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09752 mg/Kg 98 70 - 130 Toluene 0.100 0.09567 mg/Kg 96 70 - 130 0.100 0.08894 89 Ethylbenzene mg/Kg 70 - 130 0.200 0.1685 84 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.09351 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery Qua	lifier Limits
4-Bromofluorobenzene (Surr)	81	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: LCSD 880-39140/2-A

Matrix: Solid

Analysis Batch: 39369

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 39140

RPD %Rec

Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09869		mg/Kg		99	70 - 130	1	35
Toluene	0.100	0.09592		mg/Kg		96	70 - 130	0	35
Ethylbenzene	0.100	0.09030		mg/Kg		90	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1711		mg/Kg		86	70 - 130	2	35
o-Xylene	0.100	0.09589		mg/Kg		96	70 - 130	3	35

Spike

LCSD LCSD

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	77	70 - 130
1,4-Difluorobenzene (Surr)	104	70 - 130

Lab Sample ID: 890-3411-1 MS

Matrix: Solid

Analysis Batch: 39369

Client Sample ID: BH-200 (10')

Prep Type: Total/NA

Prep Batch: 39140

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0996	0.09300		mg/Kg		93	70 - 130	
Toluene	<0.00200	U	0.0996	0.08826		mg/Kg		89	70 - 130	

Prep Type: Total/NA

Client Sample ID: BH-200 (10')

Prep Type: Total/NA

Prep Batch: 39141

Prep Batch: 39140

Job ID: 890-3411-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-3411-1 MS Client Sample ID: BH-200 (10')

Matrix: Solid Analysis Batch: 39369

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits D Ethylbenzene <0.00200 U 0.0996 0.07882 79 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00401 0.199 0.1462 mg/Kg 73 70 - 130 o-Xylene <0.00200 U 0.0996 0.08198 82 70 - 130 mg/Kg

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	77	70 - 130
1,4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: 890-3411-1 MSD

Matrix: Solid

Analysis Batch: 39369

Prep Batch: 39140 Sample Sample Spike MSD MSD RPD Result Qualifier RPD Limit Analyte babbA Result Qualifier %Rec Limits Unit Benzene <0.00200 U 0.0998 0.08398 mg/Kg 84 70 - 130 10 35 Toluene <0.00200 0.0998 0.08420 mg/Kg 84 70 - 130 5 35 Ethylbenzene <0.00200 U 0.0998 0.08062 81 70 - 130 2 35 mg/Kg 0.200 m-Xylene & p-Xylene <0.00401 U 0.1625 mq/Kq 81 70 - 130 11 35 <0.00200 U 0.0998 0.09115 70 - 130 o-Xylene mg/Kg 91 11

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-39141/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 39275

мв мв Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Analyte 50.0 11/09/22 15:38 <50.0 U 11/11/22 09:13 Gasoline Range Organics mg/Kg (GRO)-C6-C10 11/11/22 09:13 Diesel Range Organics (Over <50.0 U 50.0 11/09/22 15:38 mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 11/09/22 15:38 11/11/22 09:13 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	11	1/09/22 15:38	11/11/22 09:13	1
o-Terphenyl	136	S1+	70 - 130	11	1/09/22 15:38	11/11/22 09:13	1

Lab Sample ID: LCS 880-39141/2-A **Matrix: Solid**

Analysis Batch: 39275 Prep Batch: 39141 Spike LCS LCS %Rec Added Analyte Result Qualifier Unit %Rec Limits 1000 97 70 - 130 971 0 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 884.0 mg/Kg 88 70 - 130

C10-C28)

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Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA Prep Batch: 39141

Prep Type: Total/NA

Prep Batch: 39141

QC Sample Results

Job ID: 890-3411-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-39141/2-A **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 39275

Prep Batch: 39141 LCS LCS

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 104 70 - 130 o-Terphenyl 116 70 - 130

Lab Sample ID: LCSD 880-39141/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 39275							Prep	Batch:	39141
	Spik	e LCSD	LCSD				%Rec		RPD
Analyte	Adde	d Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	100	1108		mg/Kg		111	70 - 130	13	20
(GRO)-C6-C10									
Diesel Range Organics (Over	100	910.3		mg/Kg		91	70 - 130	3	20
C10-C28)									

Surrogate	%Recovery Qualifie	er Limits
1-Chlorooctane	104	70 - 130
o-Terphenyl	116	70 - 130

LCSD LCSD

Lab Sample ID: 880-21336-A-28-D MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 39275

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	182		997	969.9		mg/Kg		79	70 - 130	
Diesel Range Organics (Over	1820	F1	997	2679		mg/Kg		86	70 - 130	

C10-C28)

o-Terphenyl

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: 880-21336-A-28-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 39275

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	182		999	1151		mg/Kg		97	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	1820	F1	999	2326	F1	mg/Kg		51	70 - 130	14	20

MSD MSD %Recovery Qualifier Limits Surrogate 1-Chlorooctane 84 70 - 130

80

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70 - 130

Client: Tetra Tech, Inc. Job ID: 890-3411-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

MD MD

Lab Sample ID: MB 880-39172/1-A

Lab Sample ID: LCS 880-39172/2-A

Lab Sample ID: LCSD 880-39172/3-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 39269

Analysis Batch: 39269

Analysis Batch: 39269

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 39172

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		11/10/22 08:48	11/11/22 09:30	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/10/22 08:48	11/11/22 09:30	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:48	11/11/22 09:30	1
	МВ	MD							
	IVIB	MB							
0	0/ 🗖	O !!!!	1 : : 4				D	A l	D# E

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119	70 - 130	11/10/22 08:48	11/11/22 09:30	1
o-Terphenyl	134 S1+	70 - 130	11/10/22 08:48	11/11/22 09:30	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 39172

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	815.5		mg/Kg		82	70 - 130	
Diesel Range Organics (Over	1000	846.7		mg/Kg		85	70 - 130	
C10-C28)								

LCS LCS

ı	Surrogate	%Recovery Qualifier	Limits
	1-Chlorooctane	94	70 - 130
	o-Terphenyl	97	70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 39172

-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1003	*1	mg/Kg		100	70 - 130	21	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	950.2		mg/Kg		95	70 - 130	12	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	109		70 - 130

Lab Sample ID: 890-3402-A-1-G MS Client Sample ID: Matrix Spike

Matrix: Solid

Prep Type: Total/NA Analysis Batch: 39269 Prep Batch: 39172

MS MS

Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Limits Unit %Rec Gasoline Range Organics 55.1 997 1007 mg/Kg 95 70 - 130 (GRO)-C6-C10 <50.0 U 997 861.7 mg/Kg 70 - 130 Diesel Range Organics (Over C10-C28)

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Prep Batch: 39172

Prep Type: Total/NA

Job ID: 890-3411-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

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Lab Sample ID: 890-3402-A-1-G MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 39269

MS	MS	
%Recovery	Qualifier	Limits
86		70 - 130

Lab Sample ID: 890-3402-A-1-H MSD Client Sample ID: Matrix Spike Duplicate

70 - 130

Matrix: Solid

Surrogate 1-Chlorooctane o-Terphenyl

Analysis Batch: 39269								Prep Batch: 39172				
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	55.1	*1	999	978.6		mg/Kg		92	70 - 130	3	20	
Diesel Range Organics (Over C10-C28)	<50.0	U	999	796.8		mg/Kg		77	70 - 130	8	20	

MSD MSD Surrogate %Recovery Qualifier Limits 82 70 - 130 1-Chlorooctane 73 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-39128/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 39334

	MB	MB							
Analyte	Result	Qualifier	RL	MDL (Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			11/12/22 00:57	1

Lab Sample ID: LCS 880-39128/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 39334

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	268.3		mg/Kg		107	90 - 110	

Lab Sample ID: LCSD 880-39128/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 39334

	Spike	LCSD	LCSD			%Rec		RPD
Analyte	Added	Result	Qualifier Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	268.7	mg/Kg		107	90 - 110		20

Lab Sample ID: 890-3411-1 MS Client Sample ID: BH-200 (10')

Matrix: Solid

Analysis Batch: 39334

/ ,	Sample Sample	Spike	MS	MS				%Rec	
Analyte	Result Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	2280 F1	1260	3520		mg/Kg		98	90 - 110	

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Prep Type: Soluble

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-3411-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-3411-1 MSD Client Sample ID: BH-200 (10') **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 39334

		Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
l	Chloride	2280	F1	1260	3707	F1	mg/Kg		113	90 - 110	5	20	

Lab Sample ID: 890-3411-11 MS Client Sample ID: SW-75 (4-10') **Matrix: Solid**

Prep Type: Soluble

Analysis Batch: 39334

Sample Sample Spike MS MS %Rec Result Qualifier Added Limits Analyte Result Qualifier Unit D %Rec Chloride 14500 F1 5010 21010 F1 mg/Kg 130 90 - 110

Lab Sample ID: 890-3411-11 MSD Client Sample ID: SW-75 (4-10')

Matrix: Solid Prep Type: Soluble

Analysis Batch: 39334

Sample Sample MSD MSD %Rec Spike

RPD Analyte Result Qualifier Added Result Qualifier Unit Limits **RPD** Limit Chloride 14500 F1 5010 20560 F1 121 90 - 110 mg/Kg

Client: Tetra Tech, Inc. Job ID: 890-3411-1 Project/Site: Kaiser SWD SDG: Lea County NM

GC VOA

Prep Batch: 39140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3411-1	BH-200 (10')	Total/NA	Solid	5035	
890-3411-2	BH-201 (10')	Total/NA	Solid	5035	
890-3411-3	BH-204 (10')	Total/NA	Solid	5035	
890-3411-4	BH-205 (10')	Total/NA	Solid	5035	
890-3411-5	BH-206 (10')	Total/NA	Solid	5035	
890-3411-6	BH-208 (10')	Total/NA	Solid	5035	
890-3411-7	BH-209 (10')	Total/NA	Solid	5035	
890-3411-8	BH-210 (10')	Total/NA	Solid	5035	
890-3411-9	BH-211 (10')	Total/NA	Solid	5035	
890-3411-10	BH-212 (10')	Total/NA	Solid	5035	
890-3411-11	SW-75 (4-10')	Total/NA	Solid	5035	
890-3411-12	SW-78 (4-10')	Total/NA	Solid	5035	
890-3411-13	SW-79 (4-10')	Total/NA	Solid	5035	
890-3411-14	SW-80 (4.5-10')	Total/NA	Solid	5035	
890-3411-15	SW-81 (4.5-10')	Total/NA	Solid	5035	
890-3411-16	SW-82 (4.5-10')	Total/NA	Solid	5035	
890-3411-17	SW-83 (4-10)	Total/NA	Solid	5035	
MB 880-39140/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39140/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39140/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3411-1 MS	BH-200 (10')	Total/NA	Solid	5035	
890-3411-1 MSD	BH-200 (10')	Total/NA	Solid	5035	

Analysis Batch: 39369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3411-1	BH-200 (10')	Total/NA	Solid	8021B	39140
890-3411-2	BH-201 (10')	Total/NA	Solid	8021B	39140
890-3411-3	BH-204 (10')	Total/NA	Solid	8021B	39140
890-3411-4	BH-205 (10')	Total/NA	Solid	8021B	39140
890-3411-5	BH-206 (10')	Total/NA	Solid	8021B	39140
890-3411-6	BH-208 (10')	Total/NA	Solid	8021B	39140
890-3411-7	BH-209 (10')	Total/NA	Solid	8021B	39140
890-3411-8	BH-210 (10')	Total/NA	Solid	8021B	39140
890-3411-9	BH-211 (10')	Total/NA	Solid	8021B	39140
890-3411-10	BH-212 (10')	Total/NA	Solid	8021B	39140
890-3411-11	SW-75 (4-10')	Total/NA	Solid	8021B	39140
890-3411-12	SW-78 (4-10')	Total/NA	Solid	8021B	39140
890-3411-13	SW-79 (4-10')	Total/NA	Solid	8021B	39140
890-3411-14	SW-80 (4.5-10')	Total/NA	Solid	8021B	39140
890-3411-15	SW-81 (4.5-10')	Total/NA	Solid	8021B	39140
890-3411-16	SW-82 (4.5-10')	Total/NA	Solid	8021B	39140
890-3411-17	SW-83 (4-10)	Total/NA	Solid	8021B	39140
MB 880-39140/5-A	Method Blank	Total/NA	Solid	8021B	39140
LCS 880-39140/1-A	Lab Control Sample	Total/NA	Solid	8021B	39140
LCSD 880-39140/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39140
890-3411-1 MS	BH-200 (10')	Total/NA	Solid	8021B	39140
890-3411-1 MSD	BH-200 (10')	Total/NA	Solid	8021B	39140

Analysis Batch: 39551

_ *					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3411-1	BH-200 (10')	Total/NA	Solid	Total BTEX	

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Client: Tetra Tech, Inc.

Job ID: 890-3411-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC VOA (Continued)

Analysis Batch: 39551 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3411-2	BH-201 (10')	Total/NA	Solid	Total BTEX	
890-3411-3	BH-204 (10')	Total/NA	Solid	Total BTEX	
890-3411-4	BH-205 (10')	Total/NA	Solid	Total BTEX	
890-3411-5	BH-206 (10')	Total/NA	Solid	Total BTEX	
890-3411-6	BH-208 (10')	Total/NA	Solid	Total BTEX	
890-3411-7	BH-209 (10')	Total/NA	Solid	Total BTEX	
890-3411-8	BH-210 (10')	Total/NA	Solid	Total BTEX	
890-3411-9	BH-211 (10')	Total/NA	Solid	Total BTEX	
890-3411-10	BH-212 (10')	Total/NA	Solid	Total BTEX	
890-3411-11	SW-75 (4-10')	Total/NA	Solid	Total BTEX	
890-3411-12	SW-78 (4-10')	Total/NA	Solid	Total BTEX	
890-3411-13	SW-79 (4-10')	Total/NA	Solid	Total BTEX	
890-3411-14	SW-80 (4.5-10')	Total/NA	Solid	Total BTEX	
890-3411-15	SW-81 (4.5-10')	Total/NA	Solid	Total BTEX	
890-3411-16	SW-82 (4.5-10')	Total/NA	Solid	Total BTEX	
890-3411-17	SW-83 (4-10)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 39141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3411-1	BH-200 (10')	Total/NA	Solid	8015NM Prep	
890-3411-2	BH-201 (10')	Total/NA	Solid	8015NM Prep	
890-3411-3	BH-204 (10')	Total/NA	Solid	8015NM Prep	
890-3411-4	BH-205 (10')	Total/NA	Solid	8015NM Prep	
890-3411-5	BH-206 (10')	Total/NA	Solid	8015NM Prep	
890-3411-6	BH-208 (10')	Total/NA	Solid	8015NM Prep	
890-3411-7	BH-209 (10')	Total/NA	Solid	8015NM Prep	
890-3411-8	BH-210 (10')	Total/NA	Solid	8015NM Prep	
890-3411-9	BH-211 (10')	Total/NA	Solid	8015NM Prep	
890-3411-10	BH-212 (10')	Total/NA	Solid	8015NM Prep	
890-3411-11	SW-75 (4-10')	Total/NA	Solid	8015NM Prep	
890-3411-12	SW-78 (4-10')	Total/NA	Solid	8015NM Prep	
890-3411-13	SW-79 (4-10')	Total/NA	Solid	8015NM Prep	
890-3411-14	SW-80 (4.5-10')	Total/NA	Solid	8015NM Prep	
890-3411-15	SW-81 (4.5-10')	Total/NA	Solid	8015NM Prep	
890-3411-16	SW-82 (4.5-10')	Total/NA	Solid	8015NM Prep	
MB 880-39141/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-39141/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-39141/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-21336-A-28-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-21336-A-28-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 39172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3411-17	SW-83 (4-10)	Total/NA	Solid	8015NM Prep	
MB 880-39172/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-39172/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-39172/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3402-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3402-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

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Client: Tetra Tech, Inc.

Job ID: 890-3411-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC Semi VOA

Analysis Batch: 39269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3411-17	SW-83 (4-10)	Total/NA	Solid	8015B NM	39172
MB 880-39172/1-A	Method Blank	Total/NA	Solid	8015B NM	39172
LCS 880-39172/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	39172
LCSD 880-39172/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39172
890-3402-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	39172
890-3402-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	39172

Analysis Batch: 39275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3411-1	BH-200 (10')	Total/NA	Solid	8015B NM	39141
890-3411-2	BH-201 (10')	Total/NA	Solid	8015B NM	39141
890-3411-3	BH-204 (10')	Total/NA	Solid	8015B NM	39141
890-3411-4	BH-205 (10')	Total/NA	Solid	8015B NM	39141
890-3411-5	BH-206 (10')	Total/NA	Solid	8015B NM	39141
890-3411-6	BH-208 (10')	Total/NA	Solid	8015B NM	39141
890-3411-7	BH-209 (10')	Total/NA	Solid	8015B NM	39141
890-3411-8	BH-210 (10')	Total/NA	Solid	8015B NM	39141
890-3411-9	BH-211 (10')	Total/NA	Solid	8015B NM	39141
890-3411-10	BH-212 (10')	Total/NA	Solid	8015B NM	39141
890-3411-11	SW-75 (4-10')	Total/NA	Solid	8015B NM	39141
890-3411-12	SW-78 (4-10')	Total/NA	Solid	8015B NM	39141
890-3411-13	SW-79 (4-10')	Total/NA	Solid	8015B NM	39141
890-3411-14	SW-80 (4.5-10')	Total/NA	Solid	8015B NM	39141
890-3411-15	SW-81 (4.5-10')	Total/NA	Solid	8015B NM	39141
890-3411-16	SW-82 (4.5-10')	Total/NA	Solid	8015B NM	39141
MB 880-39141/1-A	Method Blank	Total/NA	Solid	8015B NM	39141
LCS 880-39141/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	39141
LCSD 880-39141/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39141
880-21336-A-28-D MS	Matrix Spike	Total/NA	Solid	8015B NM	39141
880-21336-A-28-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	39141

Analysis Batch: 39406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-3411-1	BH-200 (10')	Total/NA	Solid	8015 NM	
890-3411-2	BH-201 (10')	Total/NA	Solid	8015 NM	
890-3411-3	BH-204 (10')	Total/NA	Solid	8015 NM	
390-3411-4	BH-205 (10')	Total/NA	Solid	8015 NM	
390-3411-5	BH-206 (10')	Total/NA	Solid	8015 NM	
390-3411-6	BH-208 (10')	Total/NA	Solid	8015 NM	
890-3411-7	BH-209 (10')	Total/NA	Solid	8015 NM	
390-3411-8	BH-210 (10')	Total/NA	Solid	8015 NM	
390-3411-9	BH-211 (10')	Total/NA	Solid	8015 NM	
390-3411-10	BH-212 (10')	Total/NA	Solid	8015 NM	
390-3411-11	SW-75 (4-10')	Total/NA	Solid	8015 NM	
390-3411-12	SW-78 (4-10')	Total/NA	Solid	8015 NM	
390-3411-13	SW-79 (4-10')	Total/NA	Solid	8015 NM	
390-3411-14	SW-80 (4.5-10')	Total/NA	Solid	8015 NM	
390-3411-15	SW-81 (4.5-10')	Total/NA	Solid	8015 NM	
390-3411-16	SW-82 (4.5-10')	Total/NA	Solid	8015 NM	
390-3411-17	SW-83 (4-10)	Total/NA	Solid	8015 NM	

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Client: Tetra Tech, Inc.

Job ID: 890-3411-1

Project/Site: Kaiser SWD

SDG: Lea County NM

HPLC/IC

Leach Batch: 39128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-3411-1	BH-200 (10')	Soluble	Solid	DI Leach	_
890-3411-2	BH-201 (10')	Soluble	Solid	DI Leach	
890-3411-3	BH-204 (10')	Soluble	Solid	DI Leach	
890-3411-4	BH-205 (10')	Soluble	Solid	DI Leach	
890-3411-5	BH-206 (10')	Soluble	Solid	DI Leach	
890-3411-6	BH-208 (10')	Soluble	Solid	DI Leach	
890-3411-7	BH-209 (10')	Soluble	Solid	DI Leach	
890-3411-8	BH-210 (10')	Soluble	Solid	DI Leach	
890-3411-9	BH-211 (10')	Soluble	Solid	DI Leach	
890-3411-10	BH-212 (10')	Soluble	Solid	DI Leach	
890-3411-11	SW-75 (4-10')	Soluble	Solid	DI Leach	
890-3411-12	SW-78 (4-10')	Soluble	Solid	DI Leach	
890-3411-13	SW-79 (4-10')	Soluble	Solid	DI Leach	
890-3411-14	SW-80 (4.5-10')	Soluble	Solid	DI Leach	
890-3411-15	SW-81 (4.5-10')	Soluble	Solid	DI Leach	
890-3411-16	SW-82 (4.5-10')	Soluble	Solid	DI Leach	
890-3411-17	SW-83 (4-10)	Soluble	Solid	DI Leach	
MB 880-39128/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-39128/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-39128/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3411-1 MS	BH-200 (10')	Soluble	Solid	DI Leach	
890-3411-1 MSD	BH-200 (10')	Soluble	Solid	DI Leach	
890-3411-11 MS	SW-75 (4-10')	Soluble	Solid	DI Leach	
890-3411-11 MSD	SW-75 (4-10')	Soluble	Solid	DI Leach	

Analysis Batch: 39334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3411-1	BH-200 (10')	Soluble	Solid	300.0	39128
890-3411-2	BH-201 (10')	Soluble	Solid	300.0	39128
890-3411-3	BH-204 (10')	Soluble	Solid	300.0	39128
890-3411-4	BH-205 (10')	Soluble	Solid	300.0	39128
890-3411-5	BH-206 (10')	Soluble	Solid	300.0	39128
890-3411-6	BH-208 (10')	Soluble	Solid	300.0	39128
890-3411-7	BH-209 (10')	Soluble	Solid	300.0	39128
890-3411-8	BH-210 (10')	Soluble	Solid	300.0	39128
890-3411-9	BH-211 (10')	Soluble	Solid	300.0	39128
890-3411-10	BH-212 (10')	Soluble	Solid	300.0	39128
890-3411-11	SW-75 (4-10')	Soluble	Solid	300.0	39128
890-3411-12	SW-78 (4-10')	Soluble	Solid	300.0	39128
890-3411-13	SW-79 (4-10')	Soluble	Solid	300.0	39128
890-3411-14	SW-80 (4.5-10')	Soluble	Solid	300.0	39128
890-3411-15	SW-81 (4.5-10')	Soluble	Solid	300.0	39128
890-3411-16	SW-82 (4.5-10')	Soluble	Solid	300.0	39128
890-3411-17	SW-83 (4-10)	Soluble	Solid	300.0	39128
MB 880-39128/1-A	Method Blank	Soluble	Solid	300.0	39128
LCS 880-39128/2-A	Lab Control Sample	Soluble	Solid	300.0	39128
LCSD 880-39128/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	39128
890-3411-1 MS	BH-200 (10')	Soluble	Solid	300.0	39128
890-3411-1 MSD	BH-200 (10')	Soluble	Solid	300.0	39128
890-3411-11 MS	SW-75 (4-10')	Soluble	Solid	300.0	39128
890-3411-11 MSD	SW-75 (4-10')	Soluble	Solid	300.0	39128

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Job ID: 890-3411-1 SDG: Lea County NM

Project/Site: Kaiser SWD

Client: Tetra Tech, Inc.

Lab Sample ID: 890-3411-1

Matrix: Solid

Client Sample ID: BH-200 (10') Date Collected: 11/07/22 00:00

Date Received: 11/07/22 14:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/12/22 22:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39551	11/14/22 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39406	11/14/22 14:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39141	11/09/22 15:38	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39275	11/11/22 13:54	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	39128	11/09/22 15:08	KS	EET MID
Soluble	Analysis	300.0		5			39334	11/12/22 01:19	CH	EET MID

Client Sample ID: BH-201 (10') Lab Sample ID: 890-3411-2 Matrix: Solid

Date Collected: 11/07/22 00:00

Date Received: 11/07/22 14:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/12/22 22:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39551	11/14/22 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39406	11/14/22 14:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39141	11/09/22 15:38	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39275	11/11/22 14:16	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39128	11/09/22 15:08	KS	EET MID
Soluble	Analysis	300.0		10			39334	11/12/22 01:40	CH	EET MID

Client Sample ID: BH-204 (10') Lab Sample ID: 890-3411-3 **Matrix: Solid**

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/12/22 22:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39551	11/14/22 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39406	11/14/22 14:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39141	11/09/22 15:38	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39275	11/11/22 14:37	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	39128	11/09/22 15:08	KS	EET MID
Soluble	Analysis	300.0		5			39334	11/12/22 01:47	CH	EET MID

Client Sample ID: BH-205 (10') Lab Sample ID: 890-3411-4

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/12/22 23:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39551	11/14/22 16:13	SM	EET MID

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Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-3411-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-205 (10')

Lab Sample ID: 890-3411-4 Date Collected: 11/07/22 00:00

Matrix: Solid

Date Received: 11/07/22 14:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			39406	11/14/22 14:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39141	11/09/22 15:38	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39275	11/11/22 14:59	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	39128	11/09/22 15:08	KS	EET MID
Soluble	Analysis	300.0		5			39334	11/12/22 01:54	CH	EET MID

Lab Sample ID: 890-3411-5 Client Sample ID: BH-206 (10')

Date Collected: 11/07/22 00:00 **Matrix: Solid**

Date Received: 11/07/22 14:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/12/22 23:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39551	11/14/22 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39406	11/14/22 14:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39141	11/09/22 15:38	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39275	11/11/22 15:21	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	39128	11/09/22 15:08	KS	EET MID
Soluble	Analysis	300.0		5			39334	11/12/22 02:01	CH	EET MID

Client Sample ID: BH-208 (10') Lab Sample ID: 890-3411-6

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/12/22 23:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39551	11/14/22 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39406	11/14/22 14:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39141	11/09/22 15:38	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39275	11/11/22 15:43	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39128	11/09/22 15:08	KS	EET MID
Soluble	Analysis	300.0		10			39334	11/12/22 02:23	CH	EET MID

Lab Sample ID: 890-3411-7 Client Sample ID: BH-209 (10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/13/22 00:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39551	11/14/22 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39406	11/14/22 14:30	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.00 g 1 uL	10 mL 1 uL	39141 39275	11/09/22 15:38 11/11/22 16:26	DM SM	EET MID EET MID

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Matrix: Solid

Matrix: Solid

Released to Imaging: 9/1/2023 2:55:43 PM

Client: Tetra Tech, Inc.

Job ID: 890-3411-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-209 (10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58 Lab Sample ID: 890-3411-7

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	39128	11/09/22 15:08	KS	EET MID
Soluble	Analysis	300.0		10			39334	11/12/22 02:30	CH	EET MID

Client Sample ID: BH-210 (10') Lab Sample ID: 890-3411-8

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 5.01 g 39140 11/09/22 15:36 MNR EET MID Prep 5 mL Total/NA 8021B 5 mL 5 mL 39369 11/13/22 00:40 MNR Analysis 1 **EET MID** Total/NA Total BTEX 39551 11/14/22 16:13 Analysis SM **EET MID** 1 Total/NA Analysis 8015 NM 39406 11/14/22 14:30 SM **EET MID** Total/NA 11/09/22 15:38 EET MID Prep 8015NM Prep 10.01 g 10 mL 39141 DM 8015B NM 1 uL 39275 11/11/22 16:48 **EET MID** Total/NA Analysis 1 uL SM Soluble DI Leach 5 g 50 mL 39128 11/09/22 15:08 KS **EET MID** Leach 300.0 Analysis 5 39334 11/12/22 02:37 СН **EET MID** Soluble

Client Sample ID: BH-211 (10')

Date Collected: 11/07/22 00:00

Lab Sample ID: 890-3411-9

Matrix: Solid

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/13/22 01:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39551	11/14/22 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39406	11/14/22 14:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39141	11/09/22 15:38	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39275	11/11/22 17:09	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39128	11/09/22 15:08	KS	EET MID
Soluble	Analysis	300.0		5			39334	11/12/22 02:44	CH	EET MID

Client Sample ID: BH-212 (10') Lab Sample ID: 890-3411-10

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/13/22 01:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39551	11/14/22 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39406	11/14/22 14:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39141	11/09/22 15:38	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39275	11/11/22 17:32	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	39128	11/09/22 15:08	KS	EET MID
Soluble	Analysis	300.0		5			39334	11/12/22 02:51	CH	EET MID

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Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-3411-11

Lab Sample ID: 890-3411-12

Lab Sample ID: 890-3411-13

Job ID: 890-3411-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-75 (4-10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Date Recorred	. 11/01/22 14.0									
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/13/22 02:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39551	11/14/22 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39406	11/14/22 14:30	SM	EET MID

Total/NA 39141 11/09/22 15:38 EET MID Prep 8015NM Prep 10.01 g 10 mL DM Total/NA Analysis 8015B NM 1 uL 1 uL 39275 11/11/22 17:54 SM **EET MID** Soluble DI Leach 4.99 g 50 mL 39128 11/09/22 15:08 KS EET MID Leach 300.0 Soluble Analysis 20 39334 11/12/22 02:58 СН **EET MID**

Client Sample ID: SW-78 (4-10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/13/22 03:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39551	11/14/22 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39406	11/14/22 14:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39141	11/09/22 15:38	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39275	11/11/22 18:15	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	39128	11/09/22 15:08	KS	EET MID
Soluble	Analysis	300.0		50			39334	11/12/22 03:20	CH	EET MID

Client Sample ID: SW-79 (4-10')

Date Received: 11/07/22 14:58
Date Collected: 11/07/22 00:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/13/22 03:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39551	11/14/22 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39406	11/14/22 14:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39141	11/09/22 15:38	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39275	11/11/22 18:37	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	39128	11/09/22 15:08	KS	EET MID
Soluble	Analysis	300.0		5			39334	11/12/22 03:27	CH	EET MID

Client Sample ID: SW-80 (4.5-10')

Date Collected: 11/07/22 00:00

Date Received: 11/07/22 14:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/13/22 03:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39551	11/14/22 16:13	SM	EET MID

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Lab Sample ID: 890-3411-14 **Matrix: Solid**

Job ID: 890-3411-1 SDG: Lea County NM

Project/Site: Kaiser SWD

Lab Sample ID: 890-3411-14

ab Sample ID. 890-3411-14

Matrix: Solid

Matrix: Solid

Matrix: Solid

Client Sample ID: SW-80 (4.5-10')

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Client: Tetra Tech, Inc.

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			39406	11/14/22 14:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39141	11/09/22 15:38	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39275	11/11/22 18:59	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	39128	11/09/22 15:08	KS	EET MID
Soluble	Analysis	300.0		20			39334	11/12/22 03:48	CH	EET MID

Client Sample ID: SW-81 (4.5-10')

Lab Sample ID: 890-3411-15

Date Collected: 11/07/22 00:00

Date Received: 11/07/22 14:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/13/22 04:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39551	11/14/22 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39406	11/14/22 14:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39141	11/09/22 15:38	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39275	11/11/22 19:21	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	39128	11/09/22 15:08	KS	EET MID
Soluble	Analysis	300.0		20			39334	11/12/22 03:55	CH	EET MID

Client Sample ID: SW-82 (4.5-10')

Lab Sample ID: 890-3411-16

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/13/22 04:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39551	11/14/22 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39406	11/14/22 14:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	39141	11/09/22 15:38	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39275	11/11/22 19:43	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	39128	11/09/22 15:08	KS	EET MID
Soluble	Analysis	300.0		20			39334	11/12/22 04:02	CH	EET MID

Client Sample ID: SW-83 (4-10)

Lab Sample ID: 890-3411-17

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/13/22 04:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39551	11/14/22 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39406	11/14/22 09:30	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g 1 uL	10 mL 1 uL	39172 39269	11/10/22 08:48 11/11/22 18:00	DM SM	EET MID EET MID

Eurofins Carlsbad

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Matrix: Solid

Lab Chronicle

Client: Tetra Tech, Inc.

Job ID: 890-3411-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-83 (4-10)

Lab Sample ID: 890-3411-17

Date Collected: 11/07/22 00:00 Matrix: Solid

Date Received: 11/07/22 00:00 Watrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	39128	11/09/22 15:08	KS	EET MID
Soluble	Analysis	300.0		1			39334	11/12/22 04:09	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Job ID: 890-3411-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-24	06-30-23
The following analytes	are included in this report, but	it the laboratory is not certifi	ied by the governing authority. This list ma	av include analytes for
the agency does not of		,	ieu sy ale gerelling aanenly.	ay morado dilarytoo lor
the agency does not of Analysis Method		Matrix	Analyte	ay molado analytoo tor
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Method Summary

Client: Tetra Tech, Inc.

Job ID: 890-3411-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

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Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-3411-1 SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3411-1	BH-200 (10')	Solid	11/07/22 00:00	11/07/22 14:58	10
890-3411-2	BH-201 (10')	Solid	11/07/22 00:00	11/07/22 14:58	10
890-3411-3	BH-204 (10')	Solid	11/07/22 00:00	11/07/22 14:58	10
890-3411-4	BH-205 (10')	Solid	11/07/22 00:00	11/07/22 14:58	10
890-3411-5	BH-206 (10')	Solid	11/07/22 00:00	11/07/22 14:58	10
890-3411-6	BH-208 (10')	Solid	11/07/22 00:00	11/07/22 14:58	10
890-3411-7	BH-209 (10')	Solid	11/07/22 00:00	11/07/22 14:58	10
890-3411-8	BH-210 (10')	Solid	11/07/22 00:00	11/07/22 14:58	10
890-3411-9	BH-211 (10')	Solid	11/07/22 00:00	11/07/22 14:58	10
890-3411-10	BH-212 (10')	Solid	11/07/22 00:00	11/07/22 14:58	10
890-3411-11	SW-75 (4-10')	Solid	11/07/22 00:00	11/07/22 14:58	4 - 10
890-3411-12	SW-78 (4-10')	Solid	11/07/22 00:00	11/07/22 14:58	4 - 10
890-3411-13	SW-79 (4-10')	Solid	11/07/22 00:00	11/07/22 14:58	4 - 10
890-3411-14	SW-80 (4.5-10')	Solid	11/07/22 00:00	11/07/22 14:58	4.5 - 10
890-3411-15	SW-81 (4.5-10')	Solid	11/07/22 00:00	11/07/22 14:58	4.5 - 10
890-3411-16	SW-82 (4.5-10')	Solid	11/07/22 00:00	11/07/22 14:58	4.5 - 10
890-3411-17	SW-83 (4-10)	Solid	11/07/22 00:00	11/07/22 14:58	4 - 10

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lient Name:	Permian Water Solutions	Site Manager:		Clai	r Gor		682-394 e s	6																	,			
roject Name:	Kaiser SWD		Clair.Gor	nzales	(Mtet	rate	ech c	om					390-3	411	Chai	n of	Cus	tody						HO	·.)		1	1
roject Locatio	n: Lea County, NM	Project #:	Ciair.Coi		12C-							1	1		1	1	l	louy	,	1			-					
voice to:													6				П							ed list				
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omments:	Eurofins Xenco											82608	1 -		dCr Pb	5			C/625				TDS	Set (See				
		SAMP	LING	MA	TRIX	Р	RESER	VATIV	E	S	9	\times	RO - DRO		As Ba C	3	atiles		508 / 62 of 8270	38			Sulfate	Chemis	alance			
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LAB USE ONLY	SAMPLE IDENTIFICATION	DATE	TIME	WATER		HCL	HNO ₃	None		CONTAINERS	FILTERED (Y/N)	BTEX 8021B		PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatile	TCLP Semi Volatiles	RCI	GC/MS Semi Vol. 8270C/625	CB's 80	NORM	PLM (Asbestos)	Chloride	Seneral	Anion/Cation Balance			
,	BH-200 (10')	11/7/2022	-)			X	7	T	46	13.	X	Х										K T	Ĭ				Ť
	BH-201 (10')	11/7/2022		>	(X					Х	Х]	K					I
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	BH-208 (10')	11/7/2022)	(Х					х	Х)	K					
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Received by OCD: 8/28/2023 2:02:22 PM

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11/14/2022

Analysis Re	equest of Chain of Custody Record																				Pa	ge			<u>2</u> of		2
TE	Tetra Tech, Inc.			N	Idland,T Tel (432 Fax	rexas () 682-	79705																				
Client Name:	Permian Water Solutions	Site Manager		Clai	r Gor	nzal	es					AN.	ALY	SIS				C	-:6		#a4l		No				
Project Name:	Kaiser SWD		Clair.Go	nzales	@tet	trate	ech.c	<u>om</u>				ı				rcie 		Spe	CH	y II				ΪΙ			
Project Location (county, state)	Lea County, NM	Project #:		2	12C-	-MD	-022	30															dsil				
Invoice to:	Permian Water Solutions - Dusty McInturff	15les Gine											MRO)	-	Se Hg		-						Sulfate TDS Water Chemistry (see attached list)				
Receiving Labor	Eurofins Xenco	Sampler Sign	ature;	F	Peyto	n O	liver						-ORG	d	P S	1 1				ı			see al				
Comments:												(8260B	DRO-C	20.00	Ag As Ba Cd Cr Pb	H		624	70C/62				TDS mistry (s	8			
		SAME	LING	MA	TRIX			RVATIVE THOD		ERS	Y/N)	BTEX	(GRO-	4	Ag As Ba	SS	/olatiles	8260B/	Vol. 82	808	(so		Sulfate	n Balan			
LAB#	SAMPLE IDENTIFICATION	YEAR: 2020 EAT	TIME	WATER	1	占	HNO ₃	None		CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	CLP Metals	CLP Volatiles	TCLP Semi Volatiles	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	NORM	PLM (Asbestos)	1 1	Chloride General Wa	Anion/Cation Balance			Hold
ONLY	SW-75 (4-10')	11/7/2022	F	≤ 0 >		드	I S		+	*	II.	Δ F	X	<u>d</u> 1	F	F	- 12	9	9 6	2	<u>a.</u>	X	5 6	1	+		=
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ORIGINAL COPY

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-3411-1

SDG Number: Lea County NM

List Source: Eurofins Carlsbad

Login Number: 3411 List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-3411-1

SDG Number: Lea County NM

List Source: Eurofins Midland List Creation: 11/09/22 10:47 AM

List Number: 2

Creator: Rodriguez, Leticia

Login Number: 3411

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
ls the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Environment Testing

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-3412-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Kaiser SWD

For:

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Clair Gonzales

RAMER

Authorized for release by: 11/14/2022 3:39:39 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-3412-1 SDG: Lea County NM

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QC Sample Results	7
QC Association Summary	11
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Certification Summary	14
Method Summary	15
Sample Summary	16
Chain of Custody	17
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Definitions/Glossary

Job ID: 890-3412-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

*1 LCS/LCSD RPD exceeds control limits.

S1+ Surrogate recovery exceeds control limits, high biased. U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

MS and/or MSD recovery exceeds control limits. U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DFR Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

Eurofins Carlsbad

Case Narrative

Client: Tetra Tech, Inc.

Job ID: 890-3412-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Job ID: 890-3412-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3412-1

Receipt

The sample was received on 11/7/2022 2:58 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 29.8°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: H-9 (5') (890-3412-1).

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-39172 and analytical batch 880-39269 was outside the upper control limits.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-39172 and analytical batch 880-39269 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-39128 and analytical batch 880-39334 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Matrix: Solid

Lab Sample ID: 890-3412-1

Client: Tetra Tech, Inc. Job ID: 890-3412-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: H-9 (5')

Date Collected: 11/07/22 12:00 Date Received: 11/07/22 14:58

Sample Depth: 5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/13/22 05:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/13/22 05:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/13/22 05:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/09/22 15:36	11/13/22 05:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/13/22 05:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/09/22 15:36	11/13/22 05:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				11/09/22 15:36	11/13/22 05:09	1
1,4-Difluorobenzene (Surr)	111		70 - 130				11/09/22 15:36	11/13/22 05:09	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399		0.00399		mg/Kg			11/14/22 16:13	
Method: SW846 8015 NM - Diese Analyte		ics (DRO) (Qualifier	GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/14/22 09:30	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		11/10/22 08:48	11/11/22 18:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/10/22 08:48	11/11/22 18:21	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/10/22 08:48	11/11/22 18:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	93		70 - 130				11/10/22 08:48	11/11/22 18:21	1
o-Terphenyl	92		70 - 130				11/10/22 08:48	11/11/22 18:21	1
Method: MCAWW 300.0 - Anions									
Method: MCAWW 300.0 - Anions Analyte		ography - So Qualifier	oluble RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/12/22 04:17	Dil Fac

Eurofins Carlsbad

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-3412-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3411-A-1-D MS	Matrix Spike	77	102	
890-3411-A-1-E MSD	Matrix Spike Duplicate	95	96	
890-3412-1	H-9 (5')	112	111	
LCS 880-39140/1-A	Lab Control Sample	81	100	
LCSD 880-39140/2-A	Lab Control Sample Dup	77	104	
MB 880-39140/5-A	Method Blank	89	100	
Surrogate Legend				

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-3402-A-1-G MS	Matrix Spike	86	79	
390-3402-A-1-H MSD	Matrix Spike Duplicate	82	73	
390-3412-1	H-9 (5')	93	92	
LCS 880-39172/2-A	Lab Control Sample	94	97	
LCSD 880-39172/3-A	Lab Control Sample Dup	107	109	
MB 880-39172/1-A	Method Blank	119	134 S1+	

1CO = 1-Chlorooctane

Released to Imaging: 9/1/2023 2:55:43 PM

OTPH = o-Terphenyl

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Client: Tetra Tech, Inc. Job ID: 890-3412-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-39140/5-A

Matrix: Solid

Analysis Batch: 39369

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 39140

	MB	мв							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 21:52	•
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 21:52	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 21:52	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/09/22 15:36	11/12/22 21:52	
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 21:52	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/09/22 15:36	11/12/22 21:52	

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89	70 - 130	11/09/22 15:36	11/12/22 21:52	1
1,4-Difluorobenzene (Surr)	100	70 ₋ 130	11/09/22 15:36	11/12/22 21:52	1

Lab Sample ID: LCS 880-39140/1-A

Matrix: Solid

Analysis Batch: 39369

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 39140

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09752		mg/Kg		98	70 - 130	
Toluene	0.100	0.09567		mg/Kg		96	70 - 130	
Ethylbenzene	0.100	0.08894		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene	0.200	0.1685		mg/Kg		84	70 - 130	
o-Xylene	0.100	0.09351		mg/Kg		94	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	81	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: LCSD 880-39140/2-A

Matrix: Solid

Analysis Batch: 39369

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 39140

%Rec

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09869		mg/Kg		99	70 - 130	1	35
Toluene	0.100	0.09592		mg/Kg		96	70 - 130	0	35
Ethylbenzene	0.100	0.09030		mg/Kg		90	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1711		mg/Kg		86	70 - 130	2	35
o-Xylene	0.100	0.09589		mg/Kg		96	70 - 130	3	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	77	70 - 130
1,4-Difluorobenzene (Surr)	104	70 - 130

Lab Sample ID: 890-3411-A-1-D MS

Matrix: Solid

Analysis Batch: 39369

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 39140

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0996	0.09300		mg/Kg		93	70 - 130	
Toluene	<0.00200	U	0.0996	0.08826		mg/Kg		89	70 - 130	

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Prep Batch: 39140

QC Sample Results

Job ID: 890-3412-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-3411-A-1-D MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 39369

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U	0.0996	0.07882		mg/Kg		79	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1462		mg/Kg		73	70 - 130	
o-Xylene	<0.00200	U	0.0996	0.08198		mg/Kg		82	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	77	70 - 130
1,4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: 890-3411-A-1-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 39369

Prep Type: Total/NA Prep Batch: 39140

RPD

Sample Sample Spike MSD MSD Result Qualifier Result Qualifier %Rec RPD Limit Analyte Added Unit Limits Benzene <0.00200 U 0.0998 0.08398 mg/Kg 84 70 - 130 10 35 Toluene <0.00200 U 0.0998 0.08420 mg/Kg 84 70 - 130 5 35 Ethylbenzene <0.00200 U 0.0998 0.08062 81 70 - 130 2 35 mg/Kg 0.200 70 - 130 35 m-Xylene & p-Xylene <0.00401 U 0.1625 mg/Kg 81 11 <0.00200 U 0.0998 0.09115 70 - 130 o-Xylene mg/Kg 11

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-39172/1-A Client Sample ID: Method Blank **Matrix: Solid**

Analysis Batch: 39269

Prep Type: Total/NA Prep Batch: 39172

MB MB Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Analyte Gasoline Range Organics 50.0 11/10/22 08:48 11/11/22 09:30 <50.0 U mg/Kg (GRO)-C6-C10 11/11/22 09:30 Diesel Range Organics (Over <50.0 U 50.0 11/10/22 08:48 mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 11/10/22 08:48 11/11/22 09:30 mg/Kg

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119	70 - 130	11/10/22 08:48	11/11/22 09:30	1
o-Terphenyl	134 S1+	70 - 130	11/10/22 08:48	11/11/22 09:30	1

Lab Sample ID: LCS 880-39172/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 39269

						Prep Type: Total/NA
						Prep Batch: 39172
Spike	LCS	LCS				%Rec
Added	Result	Qualifier	Unit)	%Rec	Limits

	Opike	LOS	LUU				/01 \C C
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	815.5		mg/Kg		82	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	846.7		mg/Kg		85	70 - 130
C10-C28)							

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Job ID: 890-3412-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

LCS LCS

Lab Sample ID: LCS 880-39172/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 39269

Prep Type: Total/NA

Prep Batch: 39172

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 94 70 - 130 o-Terphenyl 97 70 - 130

Lab Sample ID: LCSD 880-39172/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 39269

Prep Type: Total/NA Prep Batch: 39172

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 1003 *1 100 70 - 13021 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 950.2 95 mg/Kg 70 - 13012 20 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 107 70 - 130 1-Chlorooctane 109 70 - 130 o-Terphenyl

Lab Sample ID: 890-3402-A-1-G MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 39269

Prep Type: Total/NA

Prep Batch: 39172

Sample Sample MS MS Spike Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics 55.1 997 1007 mg/Kg 95 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 997 861.7 mg/Kg 84 70 - 130 C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 86 o-Terphenyl 79 70 - 130

Lab Sample ID: 890-3402-A-1-H MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid**

Analysis Batch: 39269

Prep Type: Total/NA

Prep Batch: 39172 RPD

Sample Sample MSD MSD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 999 978.6 92 Gasoline Range Organics 55.1 mg/Kg 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 999 796.8 mg/Kg 77 70 - 130 20 C10-C28)

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 82 70 - 130 73 70 - 130 o-Terphenyl

MSD MSD

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Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Client: Tetra Tech, Inc.

Job ID: 890-3412-1
Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-39128/1-A

Matrix: Solid

Analysis Batch: 39334

MB MB

 Analyte
 Result Chloride
 Qualifier
 RL VIDENTIAL
 MDL VIDENTIAL
 Unit VIDENTIAL
 D VIDENTIAL
 Prepared Prepared
 Analyzed Analyzed VIDENTIAL
 Dil Fac VIDENTIAL

 Chloride
 <5.00</td>
 U
 5.00
 mg/Kg
 0
 11/12/22 00:57
 1

Lab Sample ID: LCS 880-39128/2-A

Matrix: Solid

Analysis Batch: 39334

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 268.3 mg/Kg 107 90 - 110

Lab Sample ID: LCSD 880-39128/3-A

Matrix: Solid

Analysis Batch: 39334

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 268.7 mg/Kg 107 90 - 110

Lab Sample ID: 890-3411-A-1-B MS

Matrix: Solid

Analysis Batch: 39334

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added %Rec Result Qualifier Unit Limits Chloride 2280 1260 3520 90 - 110 mg/Kg

Lab Sample ID: 890-3411-A-1-C MSD

Matrix: Solid

Analysis Batch: 39334

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 2280 F1 1260 3707 F1 Chloride mg/Kg 113 90 - 110 20

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Client: Tetra Tech, Inc.

Job ID: 890-3412-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC VOA

Prep Batch: 39140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3412-1	H-9 (5')	Total/NA	Solid	5035	
MB 880-39140/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39140/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39140/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3411-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-3411-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 39369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3412-1	H-9 (5')	Total/NA	Solid	8021B	39140
MB 880-39140/5-A	Method Blank	Total/NA	Solid	8021B	39140
LCS 880-39140/1-A	Lab Control Sample	Total/NA	Solid	8021B	39140
LCSD 880-39140/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39140
890-3411-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	39140
890-3411-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	39140

Analysis Batch: 39552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3412-1	H-9 (5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 39172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3412-1	H-9 (5')	Total/NA	Solid	8015NM Prep	
MB 880-39172/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-39172/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-39172/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3402-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3402-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 39269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3412-1	H-9 (5')	Total/NA	Solid	8015B NM	39172
MB 880-39172/1-A	Method Blank	Total/NA	Solid	8015B NM	39172
LCS 880-39172/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	39172
LCSD 880-39172/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39172
890-3402-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	39172
890-3402-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	39172

Analysis Batch: 39407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3412-1	H-9 (5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 39128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3412-1	H-9 (5')	Soluble	Solid	DI Leach	
MB 880-39128/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-39128/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-39128/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-3412-1

SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 39128 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3411-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3411-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 39334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3412-1	H-9 (5')	Soluble	Solid	300.0	39128
MB 880-39128/1-A	Method Blank	Soluble	Solid	300.0	39128
LCS 880-39128/2-A	Lab Control Sample	Soluble	Solid	300.0	39128
LCSD 880-39128/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	39128
890-3411-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	39128
890-3411-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	39128

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Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 890-3412-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: H-9 (5')

Date Received: 11/07/22 14:58

Lab Sample ID: 890-3412-1 Date Collected: 11/07/22 12:00

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/13/22 05:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39552	11/14/22 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39407	11/14/22 09:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39172	11/10/22 08:48	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39269	11/11/22 18:21	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	39128	11/09/22 15:08	KS	EET MID
Soluble	Analysis	300.0		5			39334	11/12/22 04:17	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Job ID: 890-3412-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-24	06-30-23
The following analytes	are included in this report, bu	it the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for w
the agency does not of	fer certification.	•	, , ,	.,
the agency does not of Analysis Method	fer certification . Prep Method	Matrix	Analyte	-,,,
9 ,		Matrix Solid	Analyte Total TPH	

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Method Summary

Client: Tetra Tech, Inc.

Job ID: 890-3412-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-3412-1 SDG: Lea County NM

SDG. Lea County NW

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3412-1	H-9 (5')	Solid	11/07/22 12:00	11/07/22 14:58	5'

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11/14/2022

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Analysis Reque	st of Chain of Custody Record						890	-341	2 Cha	ain of	Cust	ody				-						Pag	je			1 of	_=	1
Tt	Tetra Tech, Inc.				Midland, T	(exas		e																				
Client Name:	Permian Water Solutions	Site Manager		Cla	ir Gor							Al	VAL'	/SIS						:6.	. 100	-46-	1	Na	\			
Project Name:	Kaiser SWD		Clair.Go	nzale	s@tet	trat	ech.c	om				1		11	1	irci 	e o	1	ped	ciry 	IVIE	eme		No.	, 	1		
Project Location: (county, state)	Lea County, NM	Project #:		:	212C-	-ME)-022	30				11												st)				
nvoice to:	Permian Water Solutions - Dusty McInturff												<u>@</u>		무늬	20								(see attached list)				
Receiving Laboratory:	Eurofins Xenco	Sampler Sign	ature:	1	Peyto	n C	liver						ORO - M		Pb Se	200								see atte				
Comments:												(8260B	35) DRO - (CdC	2			700,62	2000			TDS	2	Q.			
		SAMI	PLING	MA	ATRIX		PRESER MET	VATIV	Æ	RS	(NE	BTE	GRO-		g As B	S	olatiles		Vol 82	809		(2)	Sulfate	er Cher	Balanc			
LAB #	SAMPLE IDENTIFICATION	YEAR: 2020	TIME	WATER	SOIL	HCL	HNO ₃	Vone		# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH TX 1005 (Ext to C35) TPH 8015M (GRO - DRC	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	CLP Volatile	TCLP Semi Volatiles	RCI	GC/MS Semi Vol 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride S	>	Anion/Cation			Hold
H-9	(5')	11/7/2022	-		X		X			#		X	×										x	Ĭ	Ì	工		
				++		-	H					Н	+	H	+	+	Н	+	+	+	H	+	+		H	+		H
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				++		-	H	+				H	+	H	+	+	H	+	+	+	H	+	+	+		+	\vdash	H
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Relinquished by:	Date: Time: 11/7/22	Received by				Dat	e:	Time):			LA	B US	SE C	NLY	1	MAF	5	STA	ND/								
Relinquished by:	Date: Time: 11/7/22 1458	Received by	:			Dat		Time					ple Te				_					y 24		48 ł	hr 7	2 hr		
Relinquished by:	/ Date: Time:	Received by	:			Dat	e:	Time): 				-0.	7		1		Spec	cial R	Repor	t Lim	nits o	r TRI	RP R	eport			
		ORIGINAL	COPY									(Circ	ile) HA	AND D	ELIVE	RED	FEC	DEX	UPS	S T	rackin	ıg#:						

Login Sample Receipt Checklist

Client: Tetra Tech, Inc. Job Number: 890-3412-1

SDG Number: Lea County NM

List Source: Eurofins Carlsbad Login Number: 3412 List Number: 1

Creator: Stutzman, Amanda

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-3412-1 SDG Number: Lea County NM

List Source: Eurofins Midland

List Source: Eurofins Midland List Creation: 11/09/22 10:47 AM

List Number: 2 Creator: Rodriguez, Leticia

Login Number: 3412

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

Eurofins Carlsbad

<6mm (1/4").

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Environment Testing

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-3413-1

Laboratory Sample Delivery Group: 212C-MD-02230

Client Project/Site: Kaiser SWD

For:

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Clair Gonzales

RAMER

Authorized for release by: 11/14/2022 3:40:55 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-3413-1 SDG: 212C-MD-02230

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Definitions/Glossary

Job ID: 890-3413-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Description

*1 LCS/LCSD RPD exceeds control limits.

S1+ Surrogate recovery exceeds control limits, high biased. U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

MS and/or MSD recovery exceeds control limits. U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DFR Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present PQL Practical Quantitation Limit

PRES Presumptive

QC

Quality Control RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

Case Narrative

Client: Tetra Tech, Inc.

Job ID: 890-3413-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Job ID: 890-3413-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3413-1

Receipt

The sample was received on 11/7/2022 2:58 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 29.8°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: H-8 (5') (890-3413-1).

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-39172 and analytical batch 880-39269 was outside the upper control limits.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-39172 and analytical batch 880-39269 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-39128 and analytical batch 880-39334 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Matrix: Solid

Lab Sample ID: 890-3413-1

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-3413-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: H-8 (5')

Date Collected: 11/07/22 12:00 Date Received: 11/07/22 14:58

Sample Depth: 5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 05:30	1
Toluene	< 0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 05:30	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 05:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/09/22 15:36	11/13/22 05:30	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 05:30	,
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 15:36	11/13/22 05:30	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130				11/09/22 15:36	11/13/22 05:30	
1,4-Difluorobenzene (Surr)	109		70 - 130				11/09/22 15:36	11/13/22 05:30	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/14/22 16:13	1
- Method: SW846 8015 NM - Diese									
MELLIOU. SYVONO OU IS MIN - DIESE	el Range Organ	ics (DRO) (GC)						
		ics (DRO) (Qualifier	GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/14/22 09:30	Dil Fac
Analyte Total TPH	Result < 50.0	Qualifier U	RL 50.0	MDL		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die	Result <50.0 sel Range Orga	Qualifier U	RL 50.0			<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <50.0 sel Range Orga	Qualifier U unics (DRO) Qualifier	RL 50.0		mg/Kg			11/14/22 09:30	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 sel Range Orga	Qualifier U unics (DRO) Qualifier U *1	RL 50.0		mg/Kg		Prepared	11/14/22 09:30 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 sel Range Orga Result <50.0	Qualifier U unics (DRO) Qualifier U *1	RL 50.0		mg/Kg Unit mg/Kg		Prepared 11/10/22 08:48	11/14/22 09:30 Analyzed 11/11/22 18:41	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U unics (DRO) Qualifier U *1 U	RL 50.0 (GC) RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/10/22 08:48 11/10/22 08:48	11/14/22 09:30 Analyzed 11/11/22 18:41 11/11/22 18:41	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U unics (DRO) Qualifier U *1 U	RL 50.0 (GC) RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/10/22 08:48 11/10/22 08:48 11/10/22 08:48	Analyzed 11/11/22 18:41 11/11/22 18:41 11/11/22 18:41	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0	Qualifier U unics (DRO) Qualifier U *1 U	RL		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/10/22 08:48 11/10/22 08:48 11/10/22 08:48 Prepared	Analyzed 11/11/22 18:41 11/11/22 18:41 11/11/22 18:41 Analyzed	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U unics (DRO) Qualifier U *1 U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/10/22 08:48 11/10/22 08:48 11/10/22 08:48 Prepared 11/10/22 08:48	Analyzed 11/11/22 18:41 11/11/22 18:41 11/11/22 18:41 Analyzed 11/11/22 18:41	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U unics (DRO) Qualifier U *1 U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg		Prepared 11/10/22 08:48 11/10/22 08:48 11/10/22 08:48 Prepared 11/10/22 08:48	Analyzed 11/11/22 18:41 11/11/22 18:41 11/11/22 18:41 Analyzed 11/11/22 18:41	Dil Fac

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-3413-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
	BFB1	DFBZ1	
Client Sample ID	(70-130)	(70-130)	
Matrix Spike	77	102	
Matrix Spike Duplicate	95	96	
H-8 (5')	110	109	
Lab Control Sample	81	100	
Lab Control Sample Dup	77	104	
Method Blank	89	100	
zene (Surr)			
	Matrix Spike Matrix Spike Duplicate H-8 (5') Lab Control Sample Lab Control Sample Dup	Client Sample ID (70-130) Matrix Spike 77 Matrix Spike Duplicate 95 H-8 (5') 110 Lab Control Sample 81 Lab Control Sample Dup 77 Method Blank 89	Client Sample ID (70-130) (70-130) Matrix Spike 77 102 Matrix Spike Duplicate 95 96 H-8 (5') 110 109 Lab Control Sample 81 100 Lab Control Sample Dup 77 104 Method Blank 89 100

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3402-A-1-G MS	Matrix Spike	86	79	
890-3402-A-1-H MSD	Matrix Spike Duplicate	82	73	
890-3413-1	H-8 (5')	90	87	
LCS 880-39172/2-A	Lab Control Sample	94	97	
LCSD 880-39172/3-A	Lab Control Sample Dup	107	109	
MB 880-39172/1-A	Method Blank	119	134 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Carlsbad

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QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-3413-1 SDG: 212C-MD-02230 Project/Site: Kaiser SWD

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-39140/5-A

Matrix: Solid

Analysis Batch: 39369

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 39140

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 21:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 21:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 21:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/09/22 15:36	11/12/22 21:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 21:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/09/22 15:36	11/12/22 21:52	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	11/09/22 15:36	11/12/22 21:52	1
1,4-Difluorobenzene (Surr)	100		70 - 130	11/09/22 15:36	11/12/22 21:52	1

Lab Sample ID: LCS 880-39140/1-A

Matrix: Solid

Analysis Batch: 39369

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 39140

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09752		mg/Kg		98	70 - 130	
Toluene	0.100	0.09567		mg/Kg		96	70 - 130	
Ethylbenzene	0.100	0.08894		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene	0.200	0.1685		mg/Kg		84	70 - 130	
o-Xylene	0.100	0.09351		mg/Kg		94	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	81	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: LCSD 880-39140/2-A

Matrix: Solid

Analysis Batch: 39369

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 39140

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09869		mg/Kg		99	70 - 130	1	35
Toluene	0.100	0.09592		mg/Kg		96	70 - 130	0	35
Ethylbenzene	0.100	0.09030		mg/Kg		90	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1711		mg/Kg		86	70 - 130	2	35
o-Xylene	0.100	0.09589		mg/Kg		96	70 - 130	3	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	77		70 - 130
1.4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-3411-A-1-D MS

Matrix: Solid

Analysis Batch: 39369

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 39140

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0996	0.09300		mg/Kg	_	93	70 - 130	
Toluene	<0.00200	U	0.0996	0.08826		mg/Kg		89	70 - 130	

QC Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-3413-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-3411-A-1-D MS

Matrix: Solid

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 39369

Prep Type: Total/NA

Prep Batch: 39140

Sample Sample Sample Spike MS MS

WRec

Sample	Sample	Spike	IVIO	IVIO				70 Rec	
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
<0.00200	U	0.0996	0.07882		mg/Kg		79	70 - 130	
<0.00401	U	0.199	0.1462		mg/Kg		73	70 - 130	
<0.00200	U	0.0996	0.08198		mg/Kg		82	70 - 130	
	Result <0.00200 <0.00401	Result Qualifier	Result Qualifier Added <0.00200	Result Qualifier Added Result <0.00200	Result Qualifier Added Result Qualifier <0.00200	Result Qualifier Added Result Qualifier Unit <0.00200	<0.00200 U 0.0996 0.07882 mg/Kg <0.00401 U 0.199 0.1462 mg/Kg	Result Qualifier Added Result Qualifier Unit D %Rec <0.00200	Result Qualifier Added Result Qualifier Unit D %Rec Limits <0.00200

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 77
 70 - 130

 1,4-Difluorobenzene (Surr)
 102
 70 - 130

Lab Sample ID: 890-3411-A-1-E MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 39369 Prep Batch: 39140

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0998	0.08398		mg/Kg		84	70 - 130	10	35
Toluene	<0.00200	U	0.0998	0.08420		mg/Kg		84	70 - 130	5	35
Ethylbenzene	<0.00200	U	0.0998	0.08062		mg/Kg		81	70 - 130	2	35
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1625		mg/Kg		81	70 - 130	11	35
o-Xylene	<0.00200	U	0.0998	0.09115		mg/Kg		91	70 - 130	11	35
	Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Analyte Result Benzene <0.00200	Senzene <0.00200 U	Analyte Result Qualifier Added Benzene <0.00200	Analyte Result Qualifier Added Result Benzene <0.00200	Analyte Result Qualifier Added Result Qualifier Benzene <0.00200	Analyte Result Qualifier Added Result Qualifier Unit Benzene <0.00200	Analyte Result Qualifier Added Result Qualifier Unit D Benzene <0.00200	Analyte Result Qualifier Added Result Qualifier Unit D %Rec Benzene <0.00200	Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Benzene <0.00200	Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Benzene <0.00200

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 95
 70 - 130

 1,4-Difluorobenzene (Surr)
 96
 70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-39172/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 39269

MB MB Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Analyte <50.0 U 50.0 11/10/22 08:48 11/11/22 09:30 Gasoline Range Organics mg/Kg (GRO)-C6-C10 11/11/22 09:30 Diesel Range Organics (Over <50.0 U 50.0 11/10/22 08:48 mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 11/10/22 08:48 11/11/22 09:30 mg/Kg

MB MB Analyzed %Recovery Qualifier Limits Prepared Dil Fac Surrogate 1-Chlorooctane 119 70 - 130 11/10/22 08:48 11/11/22 09:30 134 S1+ 70 - 130 11/10/22 08:48 11/11/22 09:30 o-Terphenyl

Lab Sample ID: LCS 880-39172/2-A Client Sample ID: Lab Control Sample

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 39269 Prep Batch: 39172

	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	1000	815.5		mg/Kg		82	70 - 130		
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	846.7		mg/Kg		85	70 - 130		
C10-C28)									

Eurofins Carlsbad

Prep Batch: 39172

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Job ID: 890-3413-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

LCS LCS

%Recovery Qualifier

Lab Sample ID: LCS 880-39172/2-A

Limits

Matrix: Solid

Analysis Batch: 39269

Client: Tetra Tech, Inc.

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 39172

1-Chlorooctane 94 70 - 130 o-Terphenyl 97 70 - 130

Lab Sample ID: LCSD 880-39172/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 39269

Diesel Range Organics (Over

Prep Type: Total/NA

70 - 130

95

Prep Batch: 39172

12

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 1003 *1 100 70 - 13021 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10

950.2

mg/Kg

1000

C10-C28)

Surrogate

LCSD LCSD

Surrogate %Recovery Qualifier Limits 107 70 - 130 1-Chlorooctane 109 70 - 130 o-Terphenyl

Lab Sample ID: 890-3402-A-1-G MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 39269

Prep Type: Total/NA

Prep Batch: 39172

Sample Sample MS MS Spike Analyte Added Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics 55.1 997 1007 mg/Kg 95 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 997 861.7 mg/Kg 84 70 - 130

C10-C28)

MS MS

%Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 86 o-Terphenyl 79 70 - 130

Lab Sample ID: 890-3402-A-1-H MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid**

Analysis Batch: 39269

Prep Type: Total/NA

Prep Batch: 39172

RPD %Rec

Sample Sample MSD MSD Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 999 978.6 92 55.1 mg/Kg 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 999 796.8 mg/Kg 77 70 - 130 20

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	73		70 - 130

Eurofins Carlsbad

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Job ID: 890-3413-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-39128/1-A

Matrix: Solid

Analysis Batch: 39334

MB MB

Dil Fac Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 11/12/22 00:57

Lab Sample ID: LCS 880-39128/2-A **Matrix: Solid**

Analysis Batch: 39334

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 268.3 mg/Kg 107 90 - 110

Lab Sample ID: LCSD 880-39128/3-A

Matrix: Solid

Analysis Batch: 39334

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 268.7 mg/Kg 107 90 - 110

Lab Sample ID: 890-3411-A-11-B MS

Matrix: Solid

Analysis Batch: 39334

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier %Rec Unit Limits Chloride 14500 5010 21010 F1 130 90 - 110 mg/Kg

Lab Sample ID: 890-3411-A-11-C MSD

Matrix: Solid

Analysis Batch: 39334

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 14500 F1 5010 20560 F1 Chloride mg/Kg 121 90 - 110 20

QC Association Summary

Client: Tetra Tech, Inc.

Job ID: 890-3413-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

GC VOA

Prep Batch: 39140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3413-1	H-8 (5')	Total/NA	Solid	5035	_
MB 880-39140/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39140/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39140/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3411-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-3411-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 39369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3413-1	H-8 (5')	Total/NA	Solid	8021B	39140
MB 880-39140/5-A	Method Blank	Total/NA	Solid	8021B	39140
LCS 880-39140/1-A	Lab Control Sample	Total/NA	Solid	8021B	39140
LCSD 880-39140/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39140
890-3411-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	39140
890-3411-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	39140

Analysis Batch: 39553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3413-1	H-8 (5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 39172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3413-1	H-8 (5')	Total/NA	Solid	8015NM Prep	
MB 880-39172/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-39172/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-39172/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3402-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3402-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 39269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3413-1	H-8 (5')	Total/NA	Solid	8015B NM	39172
MB 880-39172/1-A	Method Blank	Total/NA	Solid	8015B NM	39172
LCS 880-39172/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	39172
LCSD 880-39172/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39172
890-3402-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	39172
890-3402-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	39172

Analysis Batch: 39408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3413-1	H-8 (5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 39128

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3413-1	H-8 (5')	Soluble	Solid	DI Leach	
MB 880-39128/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-39128/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-39128/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-3413-1

SDG: 212C-MD-02230

HPLC/IC (Continued)

Leach Batch: 39128 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3411-A-11-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3411-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 39334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3413-1	H-8 (5')	Soluble	Solid	300.0	39128
MB 880-39128/1-A	Method Blank	Soluble	Solid	300.0	39128
LCS 880-39128/2-A	Lab Control Sample	Soluble	Solid	300.0	39128
LCSD 880-39128/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	39128
890-3411-A-11-B MS	Matrix Spike	Soluble	Solid	300.0	39128
890-3411-A-11-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	39128

Eurofins Carlsbad

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Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 890-3413-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: H-8 (5')

Lab Sample ID: 890-3413-1 Date Collected: 11/07/22 12:00

Matrix: Solid

Date Received: 11/07/22 14:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/13/22 05:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39553	11/14/22 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39408	11/14/22 09:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	39172	11/10/22 08:48	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39269	11/11/22 18:41	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	39128	11/09/22 15:08	KS	EET MID
Soluble	Analysis	300.0		1			39334	11/12/22 04:24	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Job ID: 890-3413-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-24	06-30-23
The following analytes	are included in this report, bu	it the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for w
the agency does not of	fer certification.	•	, , ,	.,
the agency does not of Analysis Method	fer certification . Prep Method	Matrix	Analyte	-,,,
9 ,		Matrix Solid	Analyte Total TPH	

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Method Summary

Client: Tetra Tech, Inc. Job ID: 890-3413-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

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MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-3413-1

SDG: 212C-MD-02230

	011 / 0				
Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3413-1	H-8 (5')	Solid	11/07/22 12:00	11/07/22 14:58	5'

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oject Name:	Kaiser SWD		Clair.Go	nzale	es@	tetr	atecl	n.cor	<u>n</u>					1	1			1	1			1			1		11	1	
oject Location ounty, state)	: Lea County, NM	Project #:			212	2C-N	MD-0	2230)																4	(no			
roice to:	Permian Water Solutions - Dusty McInturff													ć		ş	윤								il bade	כופריי			
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mments:													X 8260B	(35)		a Cd Cr	a Cd Cr			624	270C/62				TDS Towns	Milouy (
		SAME	LING	M	ATR	ix		SERVA			RS	(N)	8TEX	(Ext to		Ag As B	Ag As	S	Oldules	326087	Vol. 8	808	(\$0		ulfate	Balan			
LAB USE ONLY	SAMPLE IDENTIFICATION	YEAR: 2020 BATE	TIME	WATER	SOIL		HCL HNO HNO	ICE	None		# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH TX1005 (Ext to C35)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals	TCLP Volatiles	RCI	GCAMS Vol. 6	GC/MS Semi. Vol. 8270C/625	PCB's 8082/	PLM (Asbeste	Chloride	Chloride S	General water Chemistry (see attached list) Anion/Cation Balance			Hold
	H-8 (5')	11/7/2022		-	Х			Х		T			X	×				I					I	х	I	I	П		
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Date: Time: Received by: Time: 11/7/22 Date: Time: Received by: 11/7/22 1458 Date: Time: Date: Received by: Relinquished by: Time:

REMARKS: X STANDARD LAB USE ONLY

Sample Temperature

304.80

TAM-80

RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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11/14/2022

Login Sample Receipt Checklist

Client: Tetra Tech, Inc. Job Number: 890-3413-1

SDG Number: 212C-MD-02230

Login Number: 3413 List Source: Eurofins Carlsbad List Number: 1

Creator: Stutzman, Amanda

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-3413-1

SDG Number: 212C-MD-02230

List Source: Eurofins Midland List Creation: 11/09/22 10:47 AM

List Number: 2 Creator: Rodriguez, Leticia

Login Number: 3413

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

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<6mm (1/4").



Environment Testing

ANALYTICAL REPORT

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Tel: (575)988-3199

Laboratory Job ID: 890-3414-1

Laboratory Sample Delivery Group: 212C-MD-02230

Client Project/Site: Kaiser SWD

For:

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Clair Gonzales

RAMER

Authorized for release by: 11/14/2022 3:40:57 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-3414-1 SDG: 212C-MD-02230

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Definitions/Glossary

Job ID: 890-3414-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Qualifiers

GC VOA

Qualifier **Qualifier Description** MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description** *1

LCS/LCSD RPD exceeds control limits.

S1+ Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

¤ Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit Contains No Free Liquid **CNF**

Duplicate Error Ratio (normalized absolute difference) DER

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE) LOQ

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL ML Minimum Level (Dioxin) MPN Most Probable Number MOI Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present **Practical Quantitation Limit PQL**

PRES Presumptive **Quality Control** QC

Relative Error Ratio (Radiochemistry) **RER**

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

Case Narrative

Client: Tetra Tech, Inc.

Job ID: 890-3414-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Job ID: 890-3414-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3414-1

Receipt

The samples were received on 11/7/2022 2:58 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 29.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW-75 (0-4') (890-3414-1), SW-78 (0-4') (890-3414-2), SW-79 (0-4') (890-3414-3) and SW-83 (0-4') (890-3414-4).

GC VOA

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-39148 and analytical batch 880-39393 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-39172 and analytical batch 880-39269 was outside the upper control limits.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-39172 and analytical batch 880-39269 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-39126 and analytical batch 880-39335 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-3414-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: SW-75 (0-4')
Date Collected: 11/07/22 12:00

Date Received: 11/07/22 14:58 Sample Depth: 0-4' REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-3414-1

Matrix: Solid

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 05:51	1
Toluene	< 0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 05:51	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 05:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/09/22 15:36	11/13/22 05:51	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 05:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 15:36	11/13/22 05:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				11/09/22 15:36	11/13/22 05:51	1
1,4-Difluorobenzene (Surr)	114		70 - 130				11/09/22 15:36	11/13/22 05:51	1
- Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/14/22 16:13	1
- Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/14/22 09:30	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		11/10/22 08:48	11/11/22 14:04	1
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/10/22 08:48	11/11/22 14:04	1
C10-C28) Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/10/22 08:48	11/11/22 14:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				11/10/22 08:48	11/11/22 14:04	1
	00		70 - 130				11/10/22 08:48	11/11/22 14:04	1
o-Terphenyl	96								
o-Terphenyl Method: MCAWW 300.0 - Anions		graphy - S	oluble						
- -	s, Ion Chromato	ography - So Qualifier	oluble RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SW-78 (0-4')

Date Collected: 11/07/22 12:00 Date Received: 11/07/22 14:58

Sample Depth: 0-4'

REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-3414-2

Matrix: Solid

Method: SW846 8021B - Volati	le Organic Comp	ounds (GC))						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		11/09/22 16:01	11/14/22 13:48	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/09/22 16:01	11/14/22 13:48	1
Ethylbenzene	<0.00201	U F1	0.00201		mg/Kg		11/09/22 16:01	11/14/22 13:48	1
m-Xylene & p-Xylene	<0.00402	U F1	0.00402		mg/Kg		11/09/22 16:01	11/14/22 13:48	1
o-Xylene	<0.00201	U F1	0.00201		mg/Kg		11/09/22 16:01	11/14/22 13:48	1
Xylenes, Total	<0.00402	U F1	0.00402		mg/Kg		11/09/22 16:01	11/14/22 13:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				11/09/22 16:01	11/14/22 13:48	1

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-3414-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: SW-78 (0-4')

Date Collected: 11/07/22 12:00 Date Received: 11/07/22 14:58 REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-3414-2

Matrix: Solid

Sample Depth: 0-4'

Method: SW846 8021B - Vo	olatile Organic Compounds	(GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	106	70 - 130	11/09/22 16:01	11/14/22 13:48	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/14/22 16:19	1

Method: SW846	Discol	Dange Organies	(DBO) (CC)
i weliiou. Swo46	ou io mivi - Diesei	Range Organics	(UKU) (UC)

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	161	50.0	mg/Kg			11/14/22 09:30	1

Method: SW846 8015B NM - Diesel Range Organics	(DRO)	(GC)	١
motified. Offerto College Ithin Biodol Rungo Organico	(5.10)	, , , , ,	,

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		11/10/22 08:48	11/11/22 13:43	1
Diesel Range Organics (Over C10-C28)	54.3		50.0		mg/Kg		11/10/22 08:48	11/11/22 13:43	1
Oll Range Organics (Over C28-C36)	107		50.0		mg/Kg		11/10/22 08:48	11/11/22 13:43	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92	70 - 130	11/10/22 08:48	11/11/22 13:43	1
o-Terphenyl	94	70 - 130	11/10/22 08:48	11/11/22 13:43	1

Analyte	Result Qualif	fier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3500	24.9	mg/Kg			11/12/22 04:15	5

Client Sample ID: SW-79 (0-4')

Date Collected: 11/07/22 12:00 Date Received: 11/07/22 14:58

Sample Depth: 0-4'

REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-3414-3

Matrix: Solid

Method: S	W846 8021B	- Volatile	Organic	Compounds	(GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/09/22 16:01	11/14/22 14:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/09/22 16:01	11/14/22 14:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/09/22 16:01	11/14/22 14:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/09/22 16:01	11/14/22 14:09	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		11/09/22 16:01	11/14/22 14:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 16:01	11/14/22 14:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				11/09/22 16:01	11/14/22 14:09	1
1,4-Difluorobenzene (Surr)	100		70 - 130				11/09/22 16:01	11/14/22 14:09	1

Method: TAI	SOP Total BTFX	 Total BTFX Calculation 	

motification in the dot in total billion	Total Billion Gallacion						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398 11	0.00398	ma/Ka			11/14/22 16:19	1

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Client: Tetra Tech, Inc.
Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Lab Sample ID: 890-3414-3

Matrix: Solid

Job ID: 890-3414-1

Client Sample ID: SW-79 (0-4')

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Date Collected: 11/07/22 12:00 Date Received: 11/07/22 14:58

Sample Depth: 0-4'

REMOVED FROM ANALYSIS TABLE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/14/22 09:30	1
 Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U *1	49.9		mg/Kg		11/10/22 08:48	11/11/22 14:26	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/10/22 08:48	11/11/22 14:26	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/10/22 08:48	11/11/22 14:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				11/10/22 08:48	11/11/22 14:26	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1520	F1	25.2	mg/Kg			11/12/22 04:20	5

70 - 130

Client Sample ID: SW-83 (0-4')
Date Collected: 11/07/22 12:00

Date Received: 11/07/22 14:58

Sample Depth: 0-4'

o-Terphenyl

REMOVED FROM ANALYSIS TABLE

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Lab Sample ID: 890-3414-4

11/11/22 14:26

11/10/22 08:48

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/09/22 16:01	11/14/22 14:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/09/22 16:01	11/14/22 14:29	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/09/22 16:01	11/14/22 14:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/09/22 16:01	11/14/22 14:29	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		11/09/22 16:01	11/14/22 14:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 16:01	11/14/22 14:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				11/09/22 16:01	11/14/22 14:29	1
1,4-Difluorobenzene (Surr)	100		70 - 130				11/09/22 16:01	11/14/22 14:29	1
Method: TAL SOP Total BTEX - 7 Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	
		Qualifier		MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/14/22 16:19	
Analyte Total BTEX	<0.00398	Qualifier U	0.00398	MDL		<u>D</u>	Prepared		Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese	Result <0.00398 el Range Organ	Qualifier U	0.00398 GC)		mg/Kg	=		11/14/22 16:19	1
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte	Result <0.00398 el Range Organ Result	Qualifier U ics (DRO) (Qualifier	0.00398 GC)	MDL	mg/Kg	<u>D</u>	Prepared Prepared	11/14/22 16:19 Analyzed	1 Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese	Result <0.00398 el Range Organ	Qualifier U ics (DRO) (Qualifier	0.00398 GC)		mg/Kg	=		11/14/22 16:19	1 Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte	Result <0.00398 El Range Organ Result <50.0	Qualifier U ics (DRO) (Qualifier U	0.00398 GC) RL 50.0		mg/Kg	=		11/14/22 16:19 Analyzed	1 Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH	Result <0.00398 el Range Organ Result <50.0 sel Range Orga	Qualifier U ics (DRO) (Qualifier U	0.00398 GC) RL 50.0		mg/Kg Unit mg/Kg	=		11/14/22 16:19 Analyzed	1
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese	Result <0.00398 el Range Organ Result <50.0 sel Range Orga	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	0.00398 GC) RL 50.0 (GC)	MDL	mg/Kg Unit mg/Kg		Prepared	11/14/22 16:19 Analyzed 11/14/22 09:30	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	Result <0.00398 el Range Organ Result <50.0 sel Range Orga Result	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier U *1	0.00398 GC) RL 50.0 (GC) RL	MDL	mg/Kg Unit mg/Kg Unit		Prepared Prepared	11/14/22 16:19 Analyzed 11/14/22 09:30 Analyzed	Dil Fac

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Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-3414-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: SW-83 (0-4')

Date Collected: 11/07/22 12:00 Date Received: 11/07/22 14:58 REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-3414-4

Matrix: Solid

Sample Depth: 0-4'

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86	70 - 130	11/10/22 08:48	11/11/22 14:47	1
o-Terphenyl	88	70 - 130	11/10/22 08:48	11/11/22 14:47	1

- Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2340		25.1		mg/Kg			11/12/22 04:35	5

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Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 890-3414-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limi
		BFB1	DFBZ1	
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-3411-A-1-D MS	Matrix Spike	77	102	
390-3411-A-1-E MSD	Matrix Spike Duplicate	95	96	
390-3414-1	SW-75 (0-4')	118	114	
390-3414-2	SW-78 (0-4')	97	106	
390-3414-2 MS	SW-78 (0-4')	111	97	
390-3414-2 MSD	SW-78 (0-4')	105	106	
390-3414-3	SW-79 (0-4')	106	100	
390-3414-4	SW-83 (0-4')	99	100	
_CS 880-39140/1-A	Lab Control Sample	81	100	
_CS 880-39148/1-A	Lab Control Sample	97	103	
_CSD 880-39140/2-A	Lab Control Sample Dup	77	104	
_CSD 880-39148/2-A	Lab Control Sample Dup	105	110	
MB 880-39140/5-A	Method Blank	89	100	
MB 880-39148/5-A	Method Blank	81	106	
Surrogate Legend				
BFB = 4-Bromofluorobei	nzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3402-A-1-G MS	Matrix Spike	86	79	
890-3402-A-1-H MSD	Matrix Spike Duplicate	82	73	
890-3414-1	SW-75 (0-4')	90	96	
890-3414-2	SW-78 (0-4')	92	94	
890-3414-3	SW-79 (0-4')	100	107	
390-3414-4	SW-83 (0-4')	86	88	
LCS 880-39172/2-A	Lab Control Sample	94	97	
LCSD 880-39172/3-A	Lab Control Sample Dup	107	109	
MB 880-39172/1-A	Method Blank	119	134 S1+	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Job ID: 890-3414-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-39140/5-A

Lab Sample ID: LCS 880-39140/1-A

Matrix: Solid

Analysis Batch: 39369

Matrix: Solid

Analysis Batch: 39369

Client	Sample	ID:	Method	Blank

Prep Type: Total/NA

Prep Batch: 39140

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 21:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 21:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 21:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/09/22 15:36	11/12/22 21:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/09/22 15:36	11/12/22 21:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/09/22 15:36	11/12/22 21:52	1

MB MB

MD MD

Surrogate	%Recovery 0	Qualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89	70 - 130	11/09/22 15:36	11/12/22 21:52	1
1,4-Difluorobenzene (Surr)	100	70 - 130	11/09/22 15:36	11/12/22 21:52	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 39140

Prep Type: Total/NA

Prep Batch: 39140

35

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09752 mg/Kg 98 70 - 130 Toluene 0.100 0.09567 mg/Kg 96 70 - 130 Ethylbenzene 0.100 0.08894 mg/Kg 89 70 - 130 70 - 130 0.200 84 m-Xylene & p-Xylene 0.1685 mg/Kg 0.100 0.09351 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery Qua	lifier Limits
4-Bromofluorobenzene (Surr)	81	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Lab Sample ID: LCSD 880-39140/2-A

Analysis Batch: 39369

Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene

o-Xylene

Spike	LCSD	LCSD				%Rec		RPD	
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
0.100	0.09869		mg/Kg		99	70 - 130	1	35	
0.100	0.09592		mg/Kg		96	70 - 130	0	35	
0.100	0.09030		mg/Kg		90	70 - 130	2	35	
0.200	0.1711		mg/Kg		86	70 - 130	2	35	

mg/Kg

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	77		70 - 130
1.4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-3411-A-1-D MS

Matrix: Solid

Analysis Batch: 39369

Client Sample	ID: Matrix Spike
Prep	Type: Total/NA

70 - 130

Prep Batch: 39140

Sample Sample Spike MS MS Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits <0.00200 U 0.0996 93 Benzene 0.09300 mg/Kg 70 - 130 Toluene <0.00200 U 0.0996 0.08826 mg/Kg 89 70 - 130

0.100

0.09589

Prep Type: Total/NA Prep Batch: 39140

Prep Type: Total/NA

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-3414-1 SDG: 212C-MD-02230 Project/Site: Kaiser SWD

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-3411-A-1-D MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 39369

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U	0.0996	0.07882		mg/Kg		79	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1462		mg/Kg		73	70 - 130	
o-Xylene	<0.00200	U	0.0996	0.08198		mg/Kg		82	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	77	70 - 130
1,4-Difluorobenzene (Surr)	102	70 - 130

Client Sample ID: Matrix Spike Duplicate Lab Sample ID: 890-3411-A-1-E MSD

Matrix: Solid

Analysis Batch: 39369									Prep	Batch:	39140
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0998	0.08398		mg/Kg		84	70 - 130	10	35
Toluene	<0.00200	U	0.0998	0.08420		mg/Kg		84	70 - 130	5	35
Ethylbenzene	<0.00200	U	0.0998	0.08062		mg/Kg		81	70 - 130	2	35
m-Xylene & p-Xylene	<0.00401	U	0.200	0.1625		mg/Kg		81	70 - 130	11	35
o-Xylene	<0.00200	U	0.0998	0.09115		mg/Kg		91	70 - 130	11	35

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	95	70 - 130
1,4-Difluorobenzene (Surr)	96	70 - 130

Lab Sample ID: MB 880-39148/5-A

Matrix: Solid

Analysis Batch: 39393

Client Sample ID: Method Blank **Prep Type: Total/NA**

Prep Batch: 39148

МВ	МВ

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/09/22 16:01	11/14/22 13:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/09/22 16:01	11/14/22 13:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/09/22 16:01	11/14/22 13:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/09/22 16:01	11/14/22 13:20	1
o-Xylene	< 0.00200	U	0.00200		mg/Kg		11/09/22 16:01	11/14/22 13:20	1
Xylenes, Total	< 0.00400	U	0.00400		mg/Kg		11/09/22 16:01	11/14/22 13:20	1

MB MB

Surrogate	%Recovery Qι	ualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81	70 - 130	11/09/22 16:01	11/14/22 13:20	1
1,4-Difluorobenzene (Surr)	106	70 - 130	11/09/22 16:01	11/14/22 13:20	1

Lab Sample ID: LCS 880-39148/1-A

Matrix: Solid

Analysis Batch: 39393

Client Sample ID: Lab Control Sample	
Prep Type: Total/NA	

Prep Batch: 39148

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.100	0.09113		mg/Kg		91	70 - 130
Toluene	0.100	0.09738		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.09503		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.1754		mg/Kg		88	70 - 130

Client: Tetra Tech, Inc.

Job ID: 890-3414-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-39148/1-A

Matrix: Solid

Analysis Batch: 39393

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 39148

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits D 0.100 0.08684 87 70 - 130 o-Xylene mg/Kg

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 97
 70 - 130

 1,4-Difluorobenzene (Surr)
 103
 70 - 130

Lab Sample ID: LCSD 880-39148/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 39393 Prep Batch: 39148

Spike LCSD LCSD RPD RPD Analyte Added Result Qualifier Unit %Rec Limits Limit D Benzene 0.100 0.1053 mg/Kg 105 70 - 130 14 35 Toluene 0.100 0.1145 mg/Kg 115 70 - 130 35 16 Ethylbenzene 0.100 0.1151 mg/Kg 115 70 - 130 19 35 m-Xylene & p-Xylene 0.200 0.2129 mg/Kg 106 70 - 130 19 35 0.100 0.1033 103 70 - 130 35 o-Xylene mg/Kg 17

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 105
 70 - 130

 1,4-Difluorobenzene (Surr)
 110
 70 - 130

Lab Sample ID: 890-3414-2 MS Client Sample ID: SW-78 (0-4')

Matrix: Solid
Analysis Batch: 39393

MS MS Sample Sample Spike %Rec Result Qualifier Added Result Qualifier Analyte Unit D %Rec Limits Benzene <0.00201 U 0.100 0.08043 mg/Kg 80 70 - 130 Toluene <0.00201 U 0.100 0.08943 mg/Kg 89 70 - 130 Ethylbenzene <0.00201 UF1 0.100 0.08382 mg/Kg 84 70 - 130 m-Xylene & p-Xylene <0.00402 UF1 0.200 0.1547 mg/Kg 77 70 - 130 o-Xylene <0.00201 UF1 0.100 0.07599 mg/Kg 75 70 - 130

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 111
 70 - 130

 1,4-Difluorobenzene (Surr)
 97
 70 - 130

Lab Sample ID: 890-3414-2 MSD Client Sample ID: SW-78 (0-4')

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 39393 Prep Batch: 39148

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.0990	0.09009		mg/Kg		91	70 - 130	11	35
Toluene	<0.00201	U	0.0990	0.08614		mg/Kg		87	70 - 130	4	35
Ethylbenzene	<0.00201	U F1	0.0990	0.06835	F1	mg/Kg		69	70 - 130	20	35
m-Xylene & p-Xylene	<0.00402	U F1	0.198	0.1239	F1	mg/Kg		63	70 - 130	22	35
o-Xylene	<0.00201	U F1	0.0990	0.06260	F1	mg/Kg		63	70 - 130	19	35

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Prep Type: Total/NA

Prep Batch: 39148

Jimo Gariobaa

Job ID: 890-3414-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-3414-2 MSD

Matrix: Solid

Analysis Batch: 39393

Client Sample ID: SW-78 (0-4')

Prep Type: Total/NA

Prep Batch: 39148

MSD MSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 105 70 - 130 1,4-Difluorobenzene (Surr) 106 70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-39172/1-A

Matrix: Solid

Analysis Batch: 39269

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 39172

MB MB

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 11/10/22 08:48 11/11/22 09:30 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 11/10/22 08:48 11/11/22 09:30 C10-C28) 11/10/22 08:48 11/11/22 09:30 Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119	70 - 130	11/10/22 08:48	11/11/22 09:30	1
o-Terphenyl	134 S1+	70 - 130	11/10/22 08:48	11/11/22 09:30	1

Lab Sample ID: LCS 880-39172/2-A

Matrix: Solid

Analysis Batch: 39269

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 39172

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	815.5		mg/Kg		82	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	846.7		mg/Kg		85	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	94	70 - 130
o-Ternhenyl	97	70 130

Lab Sample ID: LCSD 880-39172/3-A

Matrix: Solid

Analysis Batch: 39269

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 39172

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1003	*1	mg/Kg		100	70 - 130	21	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	950.2		mg/Kg		95	70 - 130	12	20
C10 C28)									

LCSD LCSD

Surrogate	%Recovery (Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	109		70 - 130

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-3414-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-3402-A-1-G MS

Matrix: Solid

Analysis Batch: 39269

Client	Sample	ID:	Matrix	Spike

Prep Type: Total/NA Prep Batch: 39172

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	55.1	*1	997	1007		mg/Kg		95	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.0	U	997	861.7		mg/Kg		84	70 - 130	
C10-C28)										

MS MS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	79		70 - 130

Lab Sample ID: 890-3402-A-1-H MSD Client Comple ID: Metrix Chike Dunlicate

Matrix: Solid

Analysis Batch: 39269

Chefit Sample ID.	watrix Spike Duplicate
	Pron Type: Total/NA

Prep Type: Total/NA

Prep Batch: 39172

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	55.1	*1	999	978.6		mg/Kg		92	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	796.8		mg/Kg		77	70 - 130	8	20

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 82 70 - 130

o-Terphenyl 73 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-39126/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 39335

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			11/12/22 02:56	1

Lab Sample ID: LCS 880-39126/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 39335

	Spike	LCS LC	CS			%Rec	
Analyte	Added	Result Qu	ualifier Unit	D	%Rec	Limits	
Chloride	250	266 1	ma/Ka		106	90 - 110	

Lab Sample ID: LCSD 880-39126/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 39335

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	258.9		mg/Kg	_	104	90 - 110	3	20

QC Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-3414-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-3414-3 MS

Matrix: Solid

Analysis Batch: 39335

Client Sample ID: SW-79 (0-4')

Prep Type: Soluble

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits Chloride 1520 F1 1260 2880 mg/Kg 109 90 - 110

Lab Sample ID: 890-3414-3 MSD

Client Sample ID: SW-79 (0-4')

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 39335

Sample Sample Spike MSD MSD %Rec RPD

Sample Sample Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec 1260 Chloride 1520 F1 3027 F1 mg/Kg 120 90 - 110 5 20

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Job ID: 890-3414-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

GC VOA

Prep Batch: 39140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3414-1	SW-75 (0-4')	Total/NA	Solid	5035	
MB 880-39140/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39140/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39140/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3411-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-3411-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 39148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3414-2	SW-78 (0-4')	Total/NA	Solid	5035	
890-3414-3	SW-79 (0-4')	Total/NA	Solid	5035	
890-3414-4	SW-83 (0-4')	Total/NA	Solid	5035	
MB 880-39148/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-39148/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-39148/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3414-2 MS	SW-78 (0-4')	Total/NA	Solid	5035	
890-3414-2 MSD	SW-78 (0-4')	Total/NA	Solid	5035	

Analysis Batch: 39369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3414-1	SW-75 (0-4')	Total/NA	Solid	8021B	39140
MB 880-39140/5-A	Method Blank	Total/NA	Solid	8021B	39140
LCS 880-39140/1-A	Lab Control Sample	Total/NA	Solid	8021B	39140
LCSD 880-39140/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39140
890-3411-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	39140
890-3411-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	39140

Analysis Batch: 39393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3414-2	SW-78 (0-4')	Total/NA	Solid	8021B	39148
890-3414-3	SW-79 (0-4')	Total/NA	Solid	8021B	39148
890-3414-4	SW-83 (0-4')	Total/NA	Solid	8021B	39148
MB 880-39148/5-A	Method Blank	Total/NA	Solid	8021B	39148
LCS 880-39148/1-A	Lab Control Sample	Total/NA	Solid	8021B	39148
LCSD 880-39148/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	39148
890-3414-2 MS	SW-78 (0-4')	Total/NA	Solid	8021B	39148
890-3414-2 MSD	SW-78 (0-4')	Total/NA	Solid	8021B	39148

Analysis Batch: 39554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3414-1	SW-75 (0-4')	Total/NA	Solid	Total BTEX	
890-3414-2	SW-78 (0-4')	Total/NA	Solid	Total BTEX	
890-3414-3	SW-79 (0-4')	Total/NA	Solid	Total BTEX	
890-3414-4	SW-83 (0-4')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 39172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3414-1	SW-75 (0-4')	Total/NA	Solid	8015NM Prep	
890-3414-2	SW-78 (0-4')	Total/NA	Solid	8015NM Prep	

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Client: Tetra Tech, Inc.

Job ID: 890-3414-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

GC Semi VOA (Continued)

Prep Batch: 39172 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3414-3	SW-79 (0-4')	Total/NA	Solid	8015NM Prep	
890-3414-4	SW-83 (0-4')	Total/NA	Solid	8015NM Prep	
MB 880-39172/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-39172/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-39172/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3402-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3402-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 39269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3414-1	SW-75 (0-4')	Total/NA	Solid	8015B NM	39172
890-3414-2	SW-78 (0-4')	Total/NA	Solid	8015B NM	39172
890-3414-3	SW-79 (0-4')	Total/NA	Solid	8015B NM	39172
890-3414-4	SW-83 (0-4')	Total/NA	Solid	8015B NM	39172
MB 880-39172/1-A	Method Blank	Total/NA	Solid	8015B NM	39172
LCS 880-39172/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	39172
LCSD 880-39172/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	39172
890-3402-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	39172
890-3402-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	39172

Analysis Batch: 39398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3414-1	SW-75 (0-4')	Total/NA	Solid	8015 NM	
890-3414-2	SW-78 (0-4')	Total/NA	Solid	8015 NM	
890-3414-3	SW-79 (0-4')	Total/NA	Solid	8015 NM	
890-3414-4	SW-83 (0-4')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 39126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3414-1	SW-75 (0-4')	Soluble	Solid	DI Leach	
890-3414-2	SW-78 (0-4')	Soluble	Solid	DI Leach	
890-3414-3	SW-79 (0-4')	Soluble	Solid	DI Leach	
890-3414-4	SW-83 (0-4')	Soluble	Solid	DI Leach	
MB 880-39126/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-39126/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-39126/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3414-3 MS	SW-79 (0-4')	Soluble	Solid	DI Leach	
890-3414-3 MSD	SW-79 (0-4')	Soluble	Solid	DI Leach	

Analysis Batch: 39335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3414-1	SW-75 (0-4')	Soluble	Solid	300.0	39126
890-3414-2	SW-78 (0-4')	Soluble	Solid	300.0	39126
890-3414-3	SW-79 (0-4')	Soluble	Solid	300.0	39126
890-3414-4	SW-83 (0-4')	Soluble	Solid	300.0	39126
MB 880-39126/1-A	Method Blank	Soluble	Solid	300.0	39126
LCS 880-39126/2-A	Lab Control Sample	Soluble	Solid	300.0	39126
LCSD 880-39126/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	39126
890-3414-3 MS	SW-79 (0-4')	Soluble	Solid	300.0	39126

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Client: Tetra Tech, Inc.

Job ID: 890-3414-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

HPLC/IC (Continued)

Analysis Batch: 39335 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3414-3 MSD	SW-79 (0-4')	Soluble	Solid	300.0	39126

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Job ID: 890-3414-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-75 (0-4')

Date Collected: 11/07/22 12:00 Date Received: 11/07/22 14:58

Lab Sample ID: 890-3414-1

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39140	11/09/22 15:36	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/13/22 05:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39554	11/14/22 16:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			39398	11/14/22 09:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	39172	11/10/22 08:48	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39269	11/11/22 14:04	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	39126	11/09/22 15:04	KS	EET MID
Soluble	Analysis	300.0		5	0 mL	1.0 mL	39335	11/12/22 04:10	CH	EET MID

Client Sample ID: SW-78 (0-4') Lab Sample ID: 890-3414-2

Date Collected: 11/07/22 12:00 Date Received: 11/07/22 14:58

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 4.97 g 5 mL 39148 11/09/22 16:01 MNR EET MID Total/NA 8021B 5 mL 39393 **EET MID** Analysis 1 5 mL 11/14/22 13:48 MNR Total/NA Total BTEX 39554 11/14/22 16:19 Analysis SM **EET MID** 1 Total/NA Analysis 8015 NM 39398 11/14/22 09:30 SM **EET MID** Total/NA 39172 11/10/22 08:48 Prep 8015NM Prep 10.01 g 10 mL DM **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 39269 11/11/22 13:43 SM **EET MID** Soluble 11/09/22 15:04 KS Leach DI Leach 5.02 g 50 mL 39126 **EET MID** Soluble Analysis 300.0 5 0 mL 1.0 mL 39335 11/12/22 04:15 СН **EET MID**

Client Sample ID: SW-79 (0-4') Lab Sample ID: 890-3414-3 Date Collected: 11/07/22 12:00 **Matrix: Solid**

Date Received: 11/07/22 14:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	39148	11/09/22 16:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39393	11/14/22 14:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39554	11/14/22 16:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			39398	11/14/22 09:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	39172	11/10/22 08:48	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39269	11/11/22 14:26	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	39126	11/09/22 15:04	KS	EET MID
Soluble	Analysis	300.0		5	0 mL	1.0 mL	39335	11/12/22 04:20	CH	EET MID

Lab Sample ID: 890-3414-4 Client Sample ID: SW-83 (0-4')

Date Collected: 11/07/22 12:00 Date Received: 11/07/22 14:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	39148	11/09/22 16:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39393	11/14/22 14:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			39554	11/14/22 16:19	SM	EET MID

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Matrix: Solid

Lab Chronicle

Client: Tetra Tech, Inc. Job ID: 890-3414-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-83 (0-4')

Lab Sample ID: 890-3414-4 Date Collected: 11/07/22 12:00

Matrix: Solid

Date Received: 11/07/22 14:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			39398	11/14/22 09:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	39172	11/10/22 08:48	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	39269	11/11/22 14:47	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	39126	11/09/22 15:04	KS	EET MID
Soluble	Analysis	300.0		5	0 mL	1.0 mL	39335	11/12/22 04:35	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Job ID: 890-3414-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	ns NELAP		T104704400-22-24	06-30-23
The following analytes	are included in this report by		and because the analysis of the same of the same	
the agency does not of	• '	it the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for
,	• '	Matrix	ed by the governing authority. This list ma	ay include analytes for
the agency does not of	fer certification.	•	, , ,	ay include analytes for

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Method Summary

Client: Tetra Tech, Inc. Job ID: 890-3414-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-3414-1 SDG: 212C-MD-02230

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3414-1	SW-75 (0-4')	Solid	11/07/22 12:00	11/07/22 14:58	0-4'
890-3414-2	SW-78 (0-4')	Solid	11/07/22 12:00	11/07/22 14:58	0-4'
890-3414-3	SW-79 (0-4')	Solid	11/07/22 12:00	11/07/22 14:58	0-4'
890-3414-4	SW-83 (0-4')	Solid	11/07/22 12:00	11/07/22 14:58	0-4'

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11/14/2022

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Analysis Request of Chain of Custody Record						_	890-	3414	Chair	n of C	Custo	ly									Pa	age			1	of _	1
TŁ	Tetra Tech, Inc.			A	Aidland, T Tel (432	exas (6																			
Client Name:	Permian Water Solutions	Site Manager		Clai	ir Gor	nzal	es					AN	ALY	SIS				Spo	noi	for R	Noti	hor	ı Nı	0)			
Project Name:	Kaiser SWD		Clair.Go	nzales	s@tet	trate	ech.c	om				ı	1										1			1	
Project Location (county, state)	Lea County, NM	Project#:					212C-MD-02230													1				st)			
Invoice to:	Permian Water Solutions - Dusty McInturff												(NRO)		윤									ached II			
Receiving Labor	ratory: Eurofins Xenco	Sampler Signature: Peyton Oliver								RO-N		Pb Se	11								ee aft						
Comments:												K 8260B	GRO - DRO - ORO - MRO)		S C C			624	70C/625				TDS	Chemistry (see attached list) alance			
		SAME	LING	MA	TRIX			RVATIVE		ERS	Y.N.	BTEX	PH 1X1003 (EXT 10 C.33) TPH 8015M (GRO - DRC		lotal metals Ag As Ba Cd Cr Pb Se Hg	Se	TCLP Semi Volatiles	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	1 608	(so						
LAB#	SAMPLE IDENTIFICATION	YEAR: 2020		2						CONTAINERS	RED (80218	015M	270C	Metals	/otatile	Semi V	. Vol.	Semi	PCB's 8082/608	PLM (Asbestos)	1		General Water Anion/Cation B			
(LAB USE)		DATE	TIME	WATER	SOL	HCL	E S	None		# CON	FILTERED (Y/N)	BTEX 80218	TPH 8	PAH 8270C	TCLP I	TCLP Volatiles	TCLP	GCAMS	GC/MS	PCB's	PLM (Chloride	Chloride	Gener Anion/			Hold
	SW-75 (0-4')	11/7/2022		_	K		×					х	Х	Ц			Ц	Ш			1	Х		1	\sqcup	1	\bot
	SW-78 (0-4')	11/7/2022		-	X		×					X	X	Ц	1	Ц		Ш	Ц		1	Х		4	\sqcup		+
	SW-79 (0-4')	11/7/2022)	K		X		_			X	X	Ц	_			Ш	Ц	_		Х	1	_	$\downarrow \downarrow$	_	\bot
	SW-83 (0-4')	11/7/2022		1	(X		+			X	X		+	\vdash		\mathbb{H}		+	+	X	+	+	H	+	+
				\ddagger				\blacksquare	4						1			\Box		1				1	\Box	1	\blacksquare
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Released to Imaging: 9/1/2023 2:55:43 PM

Login Sample Receipt Checklist

Client: Tetra Tech, Inc. Job Number: 890-3414-1 SDG Number: 212C-MD-02230

Login Number: 3414 List Source: Eurofins Carlsbad List Number: 1

Creator: Stutzman, Amanda

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-3414-1 SDG Number: 212C-MD-02230

List Source: Eurofins Midland

List Source: Eurofins Midland
List Creation: 11/09/22 10:47 AM

List Number: 2 Creator: Rodriguez, Leticia

Login Number: 3414

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Clair Gonzales Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Generated 12/27/2022 9:17:54 AM

JOB DESCRIPTION

Kaiser SWD SDG NUMBER Lea County NM

JOB NUMBER

890-3652-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 12/27/2022 9:17:54 AM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-3652-1 SDG: Lea County NM

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Definitions/Glossary

Client: Tetra Tech, Inc.

Job ID: 890-3652-1

Project/Site: Kaiser SWD

SDG: Lea County NM

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Qualifiers

GC VOA

Qualifier Description

F1 MS and/or MSD recovery exceeds control limits.
U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

S1+ Surrogate recovery exceeds control limits, high biased.
U Indicates the analyte was analyzed for but not detected.

HPLC/IC

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery

CFL Contains Free Liquid

CFU Colony Forming Unit

CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Carlsbad

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Case Narrative

Client: Tetra Tech, Inc.

Job ID: 890-3652-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Job ID: 890-3652-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3652-1

Receipt

The samples were received on 12/14/2022 12:37 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 10.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH-210 (11') (890-3652-1), SW-75 (0-4') (890-3652-2), SW-75 (4-10') (890-3652-3), SW-76 (0-4.5') (890-3652-4), SW-79 (0-4') (890-3652-5) and SW-83 (0-4') (890-3652-6).

GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-42002 and analytical batch 880-42108 was outside the upper control limits.

Method 8015MOD_NM: The method blank for preparation batch 880-42002 and analytical batch 880-42108 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-41942 and analytical batch 880-42078 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-3644-A-1-D). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client: Tetra Tech, Inc. Job ID: 890-3652-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-210 (11')

Date Collected: 12/14/22 12:00 Date Received: 12/14/22 12:37

Lab Sample ID: 890-3652-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/22/22 12:14	12/27/22 02:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/22/22 12:14	12/27/22 02:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/22/22 12:14	12/27/22 02:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/22/22 12:14	12/27/22 02:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/22/22 12:14	12/27/22 02:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/22/22 12:14	12/27/22 02:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				12/22/22 12:14	12/27/22 02:15	1
1,4-Difluorobenzene (Surr)	102		70 - 130				12/22/22 12:14	12/27/22 02:15	1
Method: TAL SOP Total BTEX - 1	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/27/22 09:32	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/19/22 15:23	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		12/16/22 09:37	12/18/22 19:01	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		12/16/22 09:37	12/18/22 19:01	1
C10-C28)	.50.0		50.0		11.7		10/10/00 00 07	10/10/00 10 01	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/16/22 09:37	12/18/22 19:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				12/16/22 09:37	12/18/22 19:01	1

Client Sample ID: SW-75 (0-4') Lab Sample ID: 890-3652-2 Date Collected: 12/14/22 12:00 **Matrix: Solid**

RL

5.00

MDL Unit

mg/Kg

D

Prepared

Analyzed

12/23/22 21:57

Dil Fac

Date Received: 12/14/22 12:37

Analyte

Chloride

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

699

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/22/22 12:14	12/27/22 02:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/22/22 12:14	12/27/22 02:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/22/22 12:14	12/27/22 02:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/22/22 12:14	12/27/22 02:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/22/22 12:14	12/27/22 02:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/22/22 12:14	12/27/22 02:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				12/22/22 12:14	12/27/22 02:36	1
1,4-Difluorobenzene (Surr)	103		70 - 130				12/22/22 12:14	12/27/22 02:36	1

Client: Tetra Tech, Inc.

Job ID: 890-3652-1
Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-75 (0-4')

Lab Sample ID: 890-3652-2

Date Collected: 12/14/22 12:00 Matrix: Solid
Date Received: 12/14/22 12:37

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/27/22 09:32	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/19/22 15:23	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		12/16/22 09:37	12/18/22 19:23	
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		12/16/22 09:37	12/18/22 19:23	•
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/16/22 09:37	12/18/22 19:23	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	110		70 - 130				12/16/22 09:37	12/18/22 19:23	
o-Terphenyl	97		70 - 130				12/16/22 09:37	12/18/22 19:23	

 Analyte
 Result Chloride
 Qualifier
 RL Stample ID: SW-75 (4-10')
 MDL mg/Kg
 Unit mg/Kg
 D mg/Kg
 Prepared Prepared 12/23/22 22:24
 Analyzed Dil Fac 12/23/22 22:24

 Client Sample ID: SW-75 (4-10')
 Lab Sample ID: 890-3652-3

Date Collected: 12/14/22 12:00 Date Received: 12/14/22 12:37

Released to Imaging: 9/1/2023 2:55:43 PM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/22/22 12:14	12/27/22 02:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/22/22 12:14	12/27/22 02:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/22/22 12:14	12/27/22 02:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/22/22 12:14	12/27/22 02:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/22/22 12:14	12/27/22 02:56	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/22/22 12:14	12/27/22 02:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
	95		70 - 130				12/22/22 12:14	12/27/22 02:56	1
4-Bromofluorobenzene (Surr)	30								
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX	99 - Total BTEX Cald		70 - 130				12/22/22 12:14	12/27/22 02:56	
1,4-Difluorobenzene (Surr)	99 - Total BTEX Cald	Qualifier		MDL	Unit mg/Kg	<u>D</u>		12/27/22 02:56 Analyzed 12/27/22 09:32	·
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Cald Result <0.00399	Qualifier U	70 - 130 RL 0.00399	MDL		<u>D</u>	12/22/22 12:14	Analyzed	·
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX Analyte	- Total BTEX Calc Result <0.00399 esel Range Organ	Qualifier U	70 - 130 RL 0.00399			<u>D</u>	12/22/22 12:14	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00399 esel Range Organ	Qualifier U ics (DRO) (Qualifier	70 - 130 RL 0.00399		mg/Kg	<u> </u>	12/22/22 12:14 Prepared	Analyzed 12/27/22 09:32	Dil Fac
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00399 esel Range Organ Result <49.9	Qualifier U ics (DRO) (Qualifier U	70 - 130 RL 0.00399 GC) RL 49.9		mg/Kg	<u> </u>	12/22/22 12:14 Prepared	Analyzed 12/27/22 09:32 Analyzed	Dil Fac
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Cald Result <0.00399 esel Range Organ Result <49.9	Qualifier U ics (DRO) (Qualifier U	70 - 130 RL 0.00399 GC) RL 49.9		mg/Kg Unit mg/Kg	<u> </u>	12/22/22 12:14 Prepared	Analyzed 12/27/22 09:32 Analyzed	Dil Fac
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D	- Total BTEX Cald Result <0.00399 esel Range Organ Result <49.9	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	70 - 130 RL 0.00399 GC) RL 49.9	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 12/27/22 09:32 Analyzed 12/19/22 15:23	Dil Fac

Eurofins Carlsbad

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Matrix: Solid

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-3652-1 SDG: Lea County NM

Client Sample ID: SW-75 (4-10')

Date Collected: 12/14/22 12:00 Date Received: 12/14/22 12:37

Lab Sample ID: 890-3652-3

Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	KL	MDL	Unit	ט	Prepared	Analyzea	DII Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/16/22 09:37	12/18/22 19:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				12/16/22 09:37	12/18/22 19:46	1
o-Terphenyl	94		70 - 130				12/16/22 09:37	12/18/22 19:46	1

Method: MCAWW 300.0 - Anions, I	on Chromato	graphy - Solu	uble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1390		25.2		mg/Kg			12/23/22 22:32	5

Client Sample ID: SW-76 (0-4.5')

Date Collected: 12/14/22 12:00 Date Received: 12/14/22 12:37

Lab Sample ID: 890-3652-4

Matrix: Solid

Method: SW846 8021B - Volati	le Organic Comp	ounds (GC))						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/22/22 12:14	12/27/22 04:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/22/22 12:14	12/27/22 04:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/22/22 12:14	12/27/22 04:00	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/22/22 12:14	12/27/22 04:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/22/22 12:14	12/27/22 04:00	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/22/22 12:14	12/27/22 04:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				12/22/22 12:14	12/27/22 04:00	1
1 4-Difluorobenzene (Surr)	9.3		70 - 130				12/22/22 12:14	12/27/22 04:00	1

Method: TAL SOP Total BTEX - Total	al BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			12/27/22 09:32	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	<49.9	U	49.9		mg/Kg			12/19/22 15:35	1

.0.0	•			9/119			12/10/22 10:00	
el Range Orga	nics (DRO)	(GC)						
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 07:12	1
<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 07:12	1
<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 07:12	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
110		70 - 130				12/15/22 15:21	12/18/22 07:12	1
126		70 - 130				12/15/22 15:21	12/18/22 07:12	1
	Range Orga Result	Result Qualifier U	Result Qualifier RL	Result Qualifier RL MDL	Result Qualifier RL MDL Unit mg/Kg	Result Qualifier RL MDL Unit D <49.9	Result Qualifier RL MDL Unit D Prepared 12/15/22 15:21	Result Qualifier RL MDL Unit D Prepared Analyzed 12/15/22 15:21 12/18/22 07:12 49.9 U 49.9 mg/Kg 12/15/22 15:21 12/18/22 07:12 49.9 U 49.9 mg/Kg 12/15/22 15:21 12/18/22 07:12 49.9 U 49.9 mg/Kg 12/15/22 15:21 12/18/22 07:12 49.9 U 49.9 mg/Kg 12/15/22 15:21 12/18/22 07:12 MRecovery Qualifier Limits Prepared Analyzed 110 70 - 130 12/15/22 15:21 12/18/22 07:12 1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL U	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	931		5.05	n	mg/Kg			12/23/22 22:41	1

Client: Tetra Tech, Inc.

Job ID: 890-3652-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-79 (0-4')

Date Collected: 12/14/22 12:00 Date Received: 12/14/22 12:37 Lab Sample ID: 890-3652-5

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/22/22 12:14	12/27/22 04:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/22/22 12:14	12/27/22 04:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/22/22 12:14	12/27/22 04:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/22/22 12:14	12/27/22 04:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/22/22 12:14	12/27/22 04:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/22/22 12:14	12/27/22 04:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				12/22/22 12:14	12/27/22 04:20	1
1,4-Difluorobenzene (Surr)	102		70 - 130				12/22/22 12:14	12/27/22 04:20	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			12/27/22 09:32	1

 Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Total TPH
 <49.9</td>
 U
 49.9
 mg/Kg
 12/19/22 15:35
 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 07:34	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 07:34	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 07:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				12/15/22 15:21	12/18/22 07:34	1
o-Terphenyl	122		70 - 130				12/15/22 15:21	12/18/22 07:34	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	613		4.95		mg/Kg			12/23/22 22:50	1

Client Sample ID: SW-83 (0-4')

Lab Sample ID: 890-3652-6

Date Collected: 12/14/22 12:00 Date Received: 12/14/22 12:37

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		12/22/22 12:14	12/27/22 04:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/22/22 12:14	12/27/22 04:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/22/22 12:14	12/27/22 04:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/22/22 12:14	12/27/22 04:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/22/22 12:14	12/27/22 04:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/22/22 12:14	12/27/22 04:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				12/22/22 12:14	12/27/22 04:41	1
1,4-Difluorobenzene (Surr)	102		70 - 130				12/22/22 12:14	12/27/22 04:41	1

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Matrix: Solid

3

5

7

9

10

12

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-3652-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-83 (0-4')

Lab Sample ID: 890-3652-6 Date Collected: 12/14/22 12:00

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			12/27/22 09:32	1
- Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9		mg/Kg			12/19/22 15:35	
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 07:56	
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 07:56	
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/15/22 15:21	12/18/22 07:56	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	113	-	70 - 130				12/15/22 15:21	12/18/22 07:56	
o-Terphenyl	125		70 - 130				12/15/22 15:21	12/18/22 07:56	
- Method: MCAWW 300.0 - Anions	. Ion Chromato	ography - So	oluble						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	1070		5.03		mg/Kg			12/23/22 23:16	

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 890-3652-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3652-1	BH-210 (11')	115	102	
890-3652-2	SW-75 (0-4')	116	103	
890-3652-3	SW-75 (4-10')	95	99	
890-3652-4	SW-76 (0-4.5')	111	93	
890-3652-5	SW-79 (0-4')	120	102	
890-3652-6	SW-83 (0-4')	128	102	
890-3662-A-1-H MS	Matrix Spike	114	101	
890-3662-A-1-I MSD	Matrix Spike Duplicate	99	94	
LCS 880-42514/1-A	Lab Control Sample	96	93	
LCSD 880-42514/2-A	Lab Control Sample Dup	98	93	
MB 880-42487/5-A	Method Blank	97	92	
	Method Blank	107	97	

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance
		1CO1	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-3638-A-1-D MS	Matrix Spike	92	72	
90-3638-A-1-E MSD	Matrix Spike Duplicate	106	81	
90-3644-A-1-E MS	Matrix Spike	104	104	
00-3644-A-1-F MSD	Matrix Spike Duplicate	104	103	
90-3652-1	BH-210 (11')	86	80	
0-3652-2	SW-75 (0-4')	110	97	
0-3652-3	SW-75 (4-10')	103	94	
0-3652-4	SW-76 (0-4.5')	110	126	
-3652-5	SW-79 (0-4')	109	122	
)-3652-6	SW-83 (0-4')	113	125	
S 880-41942/2-A	Lab Control Sample	109	118	
S 880-42002/2-A	Lab Control Sample	82	91	
SD 880-41942/3-A	Lab Control Sample Dup	108	118	
CSD 880-42002/3-A	Lab Control Sample Dup	108	99	
B 880-41942/1-A	Method Blank	126	142 S1+	
3 880-42002/1-A	Method Blank	139 S1+	131 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Tetra Tech, Inc. Job ID: 890-3652-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-42487/5-A

Matrix: Solid

Analysis Batch: 42596

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42487

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/22/22 10:36	12/26/22 13:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/22/22 10:36	12/26/22 13:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/22/22 10:36	12/26/22 13:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/22/22 10:36	12/26/22 13:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/22/22 10:36	12/26/22 13:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/22/22 10:36	12/26/22 13:51	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepa	ared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	12/22/22	2 10:36	12/26/22 13:51	1
1,4-Difluorobenzene (Surr)	92		70 - 130	12/22/22	2 10:36	12/26/22 13:51	1

Lab Sample ID: MB 880-42514/5-A

Matrix: Solid

Analysis Batch: 42596

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42514

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/22/22 12:14	12/26/22 23:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/22/22 12:14	12/26/22 23:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/22/22 12:14	12/26/22 23:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/22/22 12:14	12/26/22 23:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/22/22 12:14	12/26/22 23:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/22/22 12:14	12/26/22 23:30	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	12/22/22 12:14	12/26/22 23:30	1
1,4-Difluorobenzene (Surr)	97		70 - 130	12/22/22 12:14	12/26/22 23:30	1

Lab Sample ID: LCS 880-42514/1-A

Matrix: Solid

Analysis Batch: 42596

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 42514

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09444		mg/Kg		94	70 - 130	
Toluene	0.100	0.09109		mg/Kg		91	70 - 130	
Ethylbenzene	0.100	0.08635		mg/Kg		86	70 - 130	
m-Xylene & p-Xylene	0.200	0.1924		mg/Kg		96	70 - 130	
o-Xylene	0.100	0.09703		mg/Kg		97	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	96	70 - 130
1.4-Difluorobenzene (Surr)	93	70 - 130

Lab Sample ID: LCSD 880-42514/2-A

Matrix: Solid

Analysis Batch: 42596

Client Sample ID: Lab	Control Sample Dup
	Prep Type: Total/NA
	Prep Batch: 42514

	Spike	LCSD LCSD				%Rec		RPD	
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09605	mg/Kg		96	70 - 130	2	35	

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-3652-1 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-42514/2-A **Matrix: Solid**

Analysis Batch: 42596

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 42514

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.09288		mg/Kg		93	70 - 130	2	35
Ethylbenzene	0.100	0.08850		mg/Kg		89	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1984		mg/Kg		99	70 - 130	3	35
o-Xylene	0.100	0.1003		mg/Kg		100	70 - 130	3	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 890-3662-A-1-H MS

Matrix: Solid

Analysis Batch: 42596

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 42514

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Benzene <0.00201 U 0.100 0.08976 mg/Kg 90 70 - 130 Toluene <0.00201 UF1 0.100 0.07517 75 70 - 130 mg/Kg Ethylbenzene <0.00201 UF1 0.100 0.05923 F1 70 - 130 mg/Kg 59 0.200 0.1329 F1 m-Xylene & p-Xylene <0.00402 UF1 66 70 - 130 mg/Kg o-Xylene <0.00201 UF1 0.100 0.06702 F1 mg/Kg 70 - 130

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	114	70 - 130
1,4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: 890-3662-A-1-I MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 42596

Prep Type: Total/NA Prep Batch: 42514

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.0996	0.07551		mg/Kg		76	70 - 130	17	35
Toluene	<0.00201	U F1	0.0996	0.06302	F1	mg/Kg		63	70 - 130	18	35
Ethylbenzene	<0.00201	U F1	0.0996	0.04699	F1	mg/Kg		47	70 - 130	23	35
m-Xylene & p-Xylene	<0.00402	U F1	0.199	0.1036	F1	mg/Kg		52	70 - 130	25	35
o-Xylene	<0.00201	U F1	0.0996	0.05231	F1	mg/Kg		53	70 - 130	25	35

MSD MSD

Surrogate	%Recovery	Quaimer	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-41942/1-A

Matrix: Solid

Analysis Batch: 42078

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 41942

мв мв Result Qualifier MDL Unit Prepared Gasoline Range Organics <50.0 U 50.0 12/15/22 15:21 12/17/22 22:54 mg/Kg

(GRO)-C6-C10

1-Chlorooctane

o-Terphenyl

12/15/22 15:21

12/15/22 15:21

12/17/22 22:54

12/17/22 22:54

Client: Tetra Tech, Inc.

Job ID: 890-3652-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

126

142 S1+

Lab Sample ID: MB 880-41942/1-A

Matrix: Solid

Analysis Batch: 42078

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 41942

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/17/22 22:54	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/15/22 15:21	12/17/22 22:54	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

70 - 130

70 - 130

Lab Sample ID: LCS 880-41	942/2-A						Client	Sample	ID: Lab Control	Sampl
Matrix: Solid									Prep Type: 1	Γotal/N
Analysis Batch: 42078									Prep Batch	ո։ 4194
			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics			1000	848.4		mg/Kg		85	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over			1000	1024		mg/Kg		102	70 - 130	
C10-C28)										
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	109		70 - 130							
o-Terphenyl	118		70 - 130							

Lab Sample ID: LCSD 880-41942/3-A Matrix: Solid Analysis Batch: 42078			Clier	nt Sam	ple ID: I		ol Sample Type: Toto Batch:	tal/NA	
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	831.8		mg/Kg		83	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	1011		mg/Kg		101	70 - 130	1	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	118		70 - 130

104

104

Lab Sample ID: 890-3644-A-Matrix: Solid	1-E MS							Client	•	Matrix Spike pe: Total/NA
Analysis Batch: 42078										Batch: 41942
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	954.0		mg/Kg		93	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1159		mg/Kg		114	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							

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70 - 130

70 - 130

1-Chlorooctane

o-Terphenyl

Client: Tetra Tech, Inc. Job ID: 890-3652-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-3644-A-1-F MSD

Matrix: Solid

Analysis Batch: 42078

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 41942

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0	U	997	1038		mg/Kg		102	70 - 130	8	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.0	U	997	1144		mg/Kg		113	70 - 130	1	20
C10-C28)											

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: MB 880-42002/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 42108

мв мв

Prep Type: Total/NA Prep Batch: 42002

MDL Unit Analyte Result Qualifier RL Prepared Analyzed Dil Fac <50.0 U 50.0 12/16/22 09:37 12/18/22 09:55 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 12/16/22 09:37 12/18/22 09:55 50.0 OII Range Organics (Over C28-C36) <50.0 U mg/Kg 12/16/22 09:37 12/18/22 09:55

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130	12/16/22 09:37	12/18/22 09:55	1
o-Terphenyl	131	S1+	70 - 130	12/16/22 09:37	12/18/22 09:55	1

Lab Sample ID: LCS 880-42002/2-A

Matrix: Solid

Analysis Batch: 42108

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 42002

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	 1000	843.1		mg/Kg		84	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	745.4		mg/Kg		75	70 - 130	
C10 C28)								

C10-C28)

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	82	70 - 130
o-Terphenyl	91	70 - 130

Lab Sample ID: LCSD 880-42002/3-A

Matrix: Solid

Analysis Batch: 42108

Client San	iple ID: La	ab Contro	I Sample	Dup
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Prep Type: Total/NA

Prep Batch: 42002

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	871.7		mg/Kg		87	70 - 130	3	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	818.2		mg/Kg		82	70 - 130	9	20
C10-C28)									

Job ID: 890-3652-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

LCSD LCSD

Lab Sample ID: LCSD 880-42002/3-A

Lab Sample ID: 890-3638-A-1-E MSD

Matrix: Solid

Analysis Batch: 42108

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 42002

Surrogate %Recovery Qualifier

Limits 1-Chlorooctane 108 70 - 130 o-Terphenyl 99 70 - 130

Lab Sample ID: 890-3638-A-1-D MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 42108

Prep Type: Total/NA

Prep Batch: 42002

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits <50.0 U 999 774 5 74 70 - 130Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 999 908.6 91 mg/Kg 70 - 130C10-C28)

MS MS

<50.0 U

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	72		70 - 130

Client Sample ID: Matrix Spike Duplicate

70 - 130

103

Prep Type: Total/NA

12

20

Prep Batch: 42002

Analysis Batch: 42108 Sample Sample Spike MSD MSD RPD Analyte Result Qualifier hahhA Result Qualifier Unit %Rec Limits RPD Limit D Gasoline Range Organics <50.0 U 997 885.1 mg/Kg 86 70 - 130 13 20 (GRO)-C6-C10

1027

mg/Kg

997

C10-C28)

Matrix: Solid

MSD MSD %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 106 70 - 130 o-Terphenyl 81

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-41931/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 42334

Diesel Range Organics (Over

мв мв Dil Fac Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 12/23/22 21:31

Lab Sample ID: LCS 880-41931/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 42334

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	268.3		mg/Kg		107	90 - 110	

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-3652-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-41931/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 42334

	Spike	LCSD	LCSD				70 KeC		KFD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	264.7		mg/Kg		106	90 - 110	1	20	

Chiles

Lab Sample ID: 890-3652-1 MS Client Sample ID: BH-210 (11') **Matrix: Solid**

Prep Type: Soluble

LCCD LCCD

Analysis Batch: 42334

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit D %Rec Chloride 699 250 928.1 mg/Kg 92 90 - 110

Lab Sample ID: 890-3652-1 MSD Client Sample ID: BH-210 (11')

Matrix: Solid Prep Type: Soluble

Analysis Batch: 42334

MSD MSD %Rec RPD Sample Sample Spike

Result Qualifier Analyte Added Result Qualifier Unit Limits **RPD** Limit Chloride 699 250 961.0 105 90 - 110 20 mg/Kg

Client: Tetra Tech, Inc. Job ID: 890-3652-1 Project/Site: Kaiser SWD SDG: Lea County NM

GC VOA

Prep Batch: 42487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-42487/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 42514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3652-1	BH-210 (11')	Total/NA	Solid	5035	
890-3652-2	SW-75 (0-4')	Total/NA	Solid	5035	
890-3652-3	SW-75 (4-10')	Total/NA	Solid	5035	
890-3652-4	SW-76 (0-4.5')	Total/NA	Solid	5035	
890-3652-5	SW-79 (0-4')	Total/NA	Solid	5035	
890-3652-6	SW-83 (0-4')	Total/NA	Solid	5035	
MB 880-42514/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42514/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42514/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3662-A-1-H MS	Matrix Spike	Total/NA	Solid	5035	
890-3662-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 42596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3652-1	BH-210 (11')	Total/NA	Solid	8021B	42514
890-3652-2	SW-75 (0-4')	Total/NA	Solid	8021B	42514
890-3652-3	SW-75 (4-10')	Total/NA	Solid	8021B	42514
890-3652-4	SW-76 (0-4.5')	Total/NA	Solid	8021B	42514
890-3652-5	SW-79 (0-4')	Total/NA	Solid	8021B	42514
890-3652-6	SW-83 (0-4')	Total/NA	Solid	8021B	42514
MB 880-42487/5-A	Method Blank	Total/NA	Solid	8021B	42487
MB 880-42514/5-A	Method Blank	Total/NA	Solid	8021B	42514
LCS 880-42514/1-A	Lab Control Sample	Total/NA	Solid	8021B	42514
LCSD 880-42514/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42514
890-3662-A-1-H MS	Matrix Spike	Total/NA	Solid	8021B	42514
890-3662-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	42514

Analysis Batch: 42651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3652-1	BH-210 (11')	Total/NA	Solid	Total BTEX	
890-3652-2	SW-75 (0-4')	Total/NA	Solid	Total BTEX	
890-3652-3	SW-75 (4-10')	Total/NA	Solid	Total BTEX	
890-3652-4	SW-76 (0-4.5')	Total/NA	Solid	Total BTEX	
890-3652-5	SW-79 (0-4')	Total/NA	Solid	Total BTEX	
890-3652-6	SW-83 (0-4')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 41942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3652-4	SW-76 (0-4.5')	Total/NA	Solid	8015NM Prep	
890-3652-5	SW-79 (0-4')	Total/NA	Solid	8015NM Prep	
890-3652-6	SW-83 (0-4')	Total/NA	Solid	8015NM Prep	
MB 880-41942/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41942/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41942/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3644-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	

Job ID: 890-3652-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

GC Semi VOA (Continued)

Prep Batch: 41942 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3644-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 42002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3652-1	BH-210 (11')	Total/NA	Solid	8015NM Prep	
890-3652-2	SW-75 (0-4')	Total/NA	Solid	8015NM Prep	
890-3652-3	SW-75 (4-10')	Total/NA	Solid	8015NM Prep	
MB 880-42002/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-42002/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-42002/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3638-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3638-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 42078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3652-4	SW-76 (0-4.5')	Total/NA	Solid	8015B NM	41942
890-3652-5	SW-79 (0-4')	Total/NA	Solid	8015B NM	41942
890-3652-6	SW-83 (0-4')	Total/NA	Solid	8015B NM	41942
MB 880-41942/1-A	Method Blank	Total/NA	Solid	8015B NM	41942
LCS 880-41942/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41942
LCSD 880-41942/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41942
890-3644-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	41942
890-3644-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	41942

Analysis Batch: 42108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3652-1	BH-210 (11')	Total/NA	Solid	8015B NM	42002
890-3652-2	SW-75 (0-4')	Total/NA	Solid	8015B NM	42002
890-3652-3	SW-75 (4-10')	Total/NA	Solid	8015B NM	42002
MB 880-42002/1-A	Method Blank	Total/NA	Solid	8015B NM	42002
LCS 880-42002/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	42002
LCSD 880-42002/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	42002
890-3638-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	42002
890-3638-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	42002

Analysis Batch: 42208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3652-1	BH-210 (11')	Total/NA	Solid	8015 NM	
890-3652-2	SW-75 (0-4')	Total/NA	Solid	8015 NM	
890-3652-3	SW-75 (4-10')	Total/NA	Solid	8015 NM	
890-3652-4	SW-76 (0-4.5')	Total/NA	Solid	8015 NM	
890-3652-5	SW-79 (0-4')	Total/NA	Solid	8015 NM	
890-3652-6	SW-83 (0-4')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 41931

Lab Sample ID 890-3652-1	Client Sample ID BH-210 (11')	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
890-3652-2	SW-75 (0-4')	Soluble	Solid	DI Leach	
890-3652-3	SW-75 (4-10')	Soluble	Solid	DI Leach	

Client: Tetra Tech, Inc.

Job ID: 890-3652-1

Project/Site: Kaiser SWD

SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 41931 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3652-4	SW-76 (0-4.5')	Soluble	Solid	DI Leach	
890-3652-5	SW-79 (0-4')	Soluble	Solid	DI Leach	
890-3652-6	SW-83 (0-4')	Soluble	Solid	DI Leach	
MB 880-41931/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-41931/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-41931/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3652-1 MS	BH-210 (11')	Soluble	Solid	DI Leach	
890-3652-1 MSD	BH-210 (11')	Soluble	Solid	DI Leach	

Analysis Batch: 42334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3652-1	BH-210 (11')	Soluble	Solid	300.0	41931
890-3652-2	SW-75 (0-4')	Soluble	Solid	300.0	41931
890-3652-3	SW-75 (4-10')	Soluble	Solid	300.0	41931
890-3652-4	SW-76 (0-4.5')	Soluble	Solid	300.0	41931
890-3652-5	SW-79 (0-4')	Soluble	Solid	300.0	41931
890-3652-6	SW-83 (0-4')	Soluble	Solid	300.0	41931
MB 880-41931/1-A	Method Blank	Soluble	Solid	300.0	41931
LCS 880-41931/2-A	Lab Control Sample	Soluble	Solid	300.0	41931
LCSD 880-41931/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	41931
890-3652-1 MS	BH-210 (11')	Soluble	Solid	300.0	41931
890-3652-1 MSD	BH-210 (11')	Soluble	Solid	300.0	41931

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Job ID: 890-3652-1 SDG: Lea County NM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Lab Sample ID: 890-3652-1

Client Sample ID: BH-210 (11') Date Collected: 12/14/22 12:00 Matrix: Solid Date Received: 12/14/22 12:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42514	12/22/22 12:14	MNR	EET MI
Total/NA	Analysis	8021B		1	5 mL	5 mL	42596	12/27/22 02:15	AJ	EET MI
Total/NA	Analysis	Total BTEX		1			42651	12/27/22 09:32	AJ	EET MI
Total/NA	Analysis	8015 NM		1			42208	12/19/22 15:23	SM	EET MI
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	42002	12/16/22 09:37	DM	EET MI
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42108	12/18/22 19:01	SM	EET MI
Soluble	Leach	DI Leach			5 g	50 mL	41931	12/15/22 14:24	KS	EET MI
Soluble	Analysis	300.0		1	50 mL	50 mL	42334	12/23/22 21:57	CH	EET MI

Client Sample ID: SW-75 (0-4') Lab Sample ID: 890-3652-2

Date Collected: 12/14/22 12:00 Matrix: Solid

Date Received: 12/14/22 12:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	42514	12/22/22 12:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42596	12/27/22 02:36	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42651	12/27/22 09:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42208	12/19/22 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	42002	12/16/22 09:37	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42108	12/18/22 19:23	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	41931	12/15/22 14:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42334	12/23/22 22:24	CH	EET MID

Client Sample ID: SW-75 (4-10') Lab Sample ID: 890-3652-3

Date Collected: 12/14/22 12:00 Date Received: 12/14/22 12:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	42514	12/22/22 12:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42596	12/27/22 02:56	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42651	12/27/22 09:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42208	12/19/22 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	42002	12/16/22 09:37	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42108	12/18/22 19:46	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	41931	12/15/22 14:24	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	42334	12/23/22 22:32	CH	EET MID

Client Sample ID: SW-76 (0-4.5') Lab Sample ID: 890-3652-4

Date Collected: 12/14/22 12:00 Date Received: 12/14/22 12:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	42514	12/22/22 12:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42596	12/27/22 04:00	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42651	12/27/22 09:32	AJ	EET MID

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Matrix: Solid

Matrix: Solid

Released to Imaging: 9/1/2023 2:55:43 PM

Job ID: 890-3652-1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-76 (0-4.5') Lab Sample ID: 890-3652-4

Date Collected: 12/14/22 12:00 Matrix: Solid Date Received: 12/14/22 12:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			42208	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41942	12/15/22 15:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/18/22 07:12	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	41931	12/15/22 14:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42334	12/23/22 22:41	CH	EET MID

Client Sample ID: SW-79 (0-4') Lab Sample ID: 890-3652-5

Date Collected: 12/14/22 12:00 Date Received: 12/14/22 12:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	42514	12/22/22 12:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42596	12/27/22 04:20	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42651	12/27/22 09:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42208	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41942	12/15/22 15:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/18/22 07:34	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	41931	12/15/22 14:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42334	12/23/22 22:50	CH	EET MID

Client Sample ID: SW-83 (0-4') Lab Sample ID: 890-3652-6 Date Collected: 12/14/22 12:00 **Matrix: Solid**

Date Received: 12/14/22 12:37

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	42514	12/22/22 12:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42596	12/27/22 04:41	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			42651	12/27/22 09:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			42208	12/19/22 15:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41942	12/15/22 15:21	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	42078	12/18/22 07:56	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	41931	12/15/22 14:24	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	42334	12/23/22 23:16	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Matrix: Solid

Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Job ID: 890-3652-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-25	06-30-23
The following analytes	are included in this report by	it the laboratory is not cortifi	ed by the governing authority. This list ma	av include analytes for
the agency does not of	• •	it the laboratory is not certifi	ed by the governing authority. This list the	ay include arialytes for
0 ,	• •	Matrix	Analyte	ay include analytes for
the agency does not of	fer certification.	•	, , ,	ay include analytes for

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Method Summary

Client: Tetra Tech, Inc.

Job ID: 890-3652-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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SW-83 (0-4')

890-3652-6

Sample Summary

Client: Tetra Tech, Inc.

Job ID: 890-3652-1

Project/Site: Kaiser SWD

SDG: Lea County NM

12/14/22 12:00

12/14/22 12:37

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-3652-1	BH-210 (11')	Solid	12/14/22 12:00	12/14/22 12:37
890-3652-2	SW-75 (0-4')	Solid	12/14/22 12:00	12/14/22 12:37
890-3652-3	SW-75 (4-10')	Solid	12/14/22 12:00	12/14/22 12:37
890-3652-4	SW-76 (0-4.5')	Solid	12/14/22 12:00	12/14/22 12:37
890-3652-5	SW-79 (0-4')	Solid	12/14/22 12:00	12/14/22 12:37

Solid

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Analysis Request of Chain of Custody Record

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890-3652	Chain	of CL	stody

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Cilent Name:	Permian Water Solutions	Site Manager:		Clair (Gon	zal	es								C:-				YSI	_	-			NIO				
Project Name:	Kaiser SWD		Clair.Gonz	ales@	Qtet	rate	ech.c	om						1	(Cir	CIE	01		 	iry 			l		., 	1		١
Project Location state)	: (county, Lea County, NM	Project #:		21	2C-	MD	-022	230																	0			1
invoice to:	Permian Water Solutions - Dusty McInturff													<u>8</u>	8	우									ched lis			
Receiving Labor	atory: Eurofins Xenco	Sampler Sign	ature:	Pe	ytor	n O	liver							RO-M	Pb Se H	Pb Se I				100					ee atta			
Comments:												BTEX 8260B	C35)	DRO-C	Cd Cr	a Cd Cr			624	8270C/625				TDS	nistry (s	8		
		SAMF	LING	MATE	RIX		PRES	THO		RS	(NE		(Ext to	GRO-	Ag As Ba	Ag As B	S	olatiles	3260B /	Vol. 8;	809		(8)	Sulfate	er Cher	Baland		
LAB #	SAMPLE IDENTIFICATION	YEAR: 2020	TIME	WATER		HCL	HNO3	CE	200	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO) PAH 8270C	Total Metals	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi V	GC/MS Vol. 8260B / 624	GC/MS Semi	PCB's 8082 / 608	NORM	PLM (Aspestos)	Chloride	General Water Chemistry (see attached list)	Anion/Cation Balance		Hold
	BH-210 (11')	12/14/2022		Х			_	K				х		x									Х					
	SW-75 (0-4')	12/14/2022		Х				x		L	<u> </u>	X		x						L			X			_	_	\dashv
	SW-75 (4-10')	12/14/2022		Х				X				X		x				\perp	\perp	L	Ш		Х		П	_	\perp	_
	SW-76 (0-4.5')	12/14/2022		Х				X				Х		x		Ц	1	1	\perp				X	1	Ц	4	_	4
	SW-79 (0-4')	12/14/2022		X				K				Х		X L	\perp		1	1	\perp	L			X	1	Ш	_	-	\dashv
	SW-83 (0-4')	12/14/2022		X				×	1	_	_	×		×	+		1	4	+	1		-	-X	+	H	+	+	\dashv
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Relinquished by	y: Date: Time:	Received by:			C	Date		Time);) (0.	C)	[Speci	ial R	epor	t Lim	its or	TRE	RP R	eport		
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Eurofins Carlsbad

1089 N Canal St Carlsbad, NM 88220

Chain of Custody Record



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Environment Testing

12/27/2022

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Phone, 575-988-3199 Fax: 575-988-3199												8						•	Emmonment resum
Client Information (Sub Contract Lab)	Sampler ⁻				ab PM (ramer	, Jess	ica					ľ	Carrier	Trackin	g No(s):			COC No ⁻ 890-1064 1	
Client Contact: Shipping/Receiving	Phone				-Mail: lessica	Kram	ner@e	t.eur	ofinsu	ıs co	m			f Origin: Mexico)			Page Page 1 of 1	
Company Eurofins Environment Testing South Centr							ions Re - Texa		d (See	note):			***************************************					Job # ⁻ 890-3652-1	
Address 1211 W Florida Ave,	Due Date Request 12/20/2022	ed							Δ	nal	vsis	Req	iest	ed he				Preservation Codes	
City ⁻ Midland	TAT Requested (d	ays):			13				T	T				T				B NaOH	M Hexane N None O AsNaO2
State, Zip: TX, 79701																		D Nitric Acid	P - Na2O4S Q - Na2SO3
Phone 432-704-5440(Tel)	PO# ⁻								Į.									G Amchlor	R Na2S2O3 S - H2SO4 T TSP Dodecahydrate
Email	WO #:				- S	(6)			E E	hlorid								I Ice	J - Acetone ✓ MCAA
Project Name Kaiser SWD	Project #: 88001259				Se, (s or No)	ВТЕХ		S Pre	FACHO							ainers	K EDTA	W pH 4-5 Y Trizma Z other (specify)
Site:	SSOW#				amp	SD (Yes	유 .		16NM	מַ רַ							of con	Other [.]	(.)
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)		Held Filte		8021B/6036FP_C	8015MOD Calc	8016MOD_NM/8016NM_S_Prep Full TPH	300_ORGFM_28D/DI_LEACH Chloride							Total Number o	Special Inst	ructions/Note:
		><	Preserva	tion Code	e: X	X		en la large de La large de la companya de la compan									X	4	
BH-210 (11') (890-3652-1)	12/14/22	12 00 Mountain		Solid			хх	X	(x	Х							1		
SW-75 (0-4') (890-3652-2)	12/14/22	12 00 Mountain		Solid			x x	X	∢ x	Х									
SW-75 (4-10') (890-3652-3)	12/14/22	12 00 Mountain		Solid			х	(x	(X	х							1		
SW-76 (0-4 5') (890-3652-4)	12/14/22	12 00 Mountain		Solid			хх	X	(X	х							1		
SW-79 (0-4') (890-3652-5)	12/14/22	12 00 Mountain		Solid			хх	×	< x	Х							4		
SW-83 (0-4') (890-3652-6)	12/14/22	12 00 Mountain		Solid			хх	X	(x	х							1		
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							-	+	-	-	+-		1	\dashv	+		-		
Note: Since laboratory accreditations are subject to change, Eurofins Environmen laboratory does not currently maintain accreditation in the State of Origin listed ab accreditation status should be brought to Eurofins Environment Testing South Ce					st be ship s are cu	rent to	date re	ne Eur eturn t	rofins E the sigr	nviror ned Ch	ment and of	resting Custod	South y attes	Central ting to s	LLC lab	oratory o	r other Eurofi	instructions will be provi ins Environment Testing	ided. Any changes to South Central LLC.
Possible Hazard Identification Unconfirmed						Sam	1				may					s are r	1	ed longer than 1 m	-
Deliverable Requested I, II III IV, Other (specify)	Primary Deliver	able Rank	2			Spec	Retu ial Ins		o Clie tions/0		equir			al By L	.ab		Arch	nive For	Months
Empty Kit Relinquished by		Date		····	Tir	ne:	<u> </u>		······································				٨	lethod o	of Shipme	ent:			
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Custody Seals Intact. Custody Seal No					,	c	ooler T	emper	rature(s	s) °C a	and Oth	ner Ren	narks						

Eurofins Carlsbad

1089 N Canal St

1089 N Canal St
Carlsbad, NM 88220
Phone. 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



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Environment Testing

12/27/2022

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Client Information (Sub Contract Lab)	Sampler			Lab PM Kramei	r loc	i						Carrie	r Trackir	ng No(s)			COC No:	
Client Contact:	Phone:			E-Mail	1, Jes	ssica						State	of Origin	,-			890-1064 1 Page:	
Shipping/Receiving Company				Jessica									Mexic				Page 1 of 1	
Eurofins Environment Testing South Centr						tations P - Te		red (Se	e note	e):							Job #:	
Address	Due Date Requeste	ad				- 10	JAGS							······································			890-3652-1 Preservation Codes	8
1211 W Florida Ave City	12/20/2022 TAT Requested (da		·	2000	na populates				Ana	alysi	s Red	ues	ted				A HCI	M Hexane
Midland	(da	ıys):															R NaOH	N - None O AsNaO2
State Zip.	1										1]]	1		1		D - Nitric Acid	P Na2O4S Q Na2SO3
TX, 79701 Phone:	PO#:									ĺ							E Nanou4	R Na2S2O3
432-704-5440(Tel)	10#]_			1	li	E.	و ا		1		1 1			G Amehlor	S H2SO4 T TSP Dodecahydrate
Email	WO#:				6				8016MOD_NM/8015NM_S_Prep Full TPH	300_ORGFM_28D/DI_LEACH Chloride						A COLOR	I Ice	U Acetone V MCAA
Project Name:	Project #:				Z 5				ē		1	1		1 1		ners	K EDTA '	W pH4-5 Y Trizma
Kaiser SWD Site.	88001259 SSOW#				Se.	BTEX		1	o' ≤	4						ntai	4	Z - other (specify)
	33077#			Ess	MS/MSD (Yes or No)	980	ا ج		015N	ַהָּ' הַ				1 1		of con	Other [.]	
			Sample Mat	rix g	NS.	8021B/6036FP_Calo	Total_BTEX_GCV	Sale	8 N	8 8						ber		
		(Type (w=w			1803	E	8015MOD_Calc	8	<u> </u>	-					Total Num		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	(C=Comp, _{O=was}	te/oll,	Perform	22		16M	16M	0	İ				i	E S		
Cample Identification - Orient ID (200 D)	Sample Date	Tillie	G=grab) BT=TIssue Preservation Co		₩	×	ř	8	8	×						U	Special Inst	tructions/Note:
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SW-75 (0-4') (890-3652-2)	12/14/22	Mountain 12 00	So		╂┤	X	x		-	$\frac{1}{x}$	-	\vdash	_					
SW-75 (4-10') (890-3652-3)	12/14/22	Mountain 12 00	So		+-						-			+	_	2.2		
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SW-76 (0-4 5') (890-3652-4)	12/14/22	Mountain 12 00	So		_	X	X	X	X	X L						1		
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Note. Since laboratory accreditations are subject to change Eurofins Environment	Testing South Centr	al, LLC places	the ownership of meth	od analyte	e & acc	credita	tion co	mplian	ce up	on our	subcont	ract lab	oratorie	s. This sa	ample ship	oment	is forwarded under chai	in-of-custody If the
laboratory does not currently maintain accreditation in the State of Origin listed ab- accreditation status should be brought to Eurofins Environment Testing South Cer																		
Possible Hazard Identification																	ed longer than 1 m	
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Deliverable Requested I II, III, IV Other (specify)	Primary Delivera	able Rank 2	2		Spe					Requ	uireme		al By	Lab		Arcn	ive For	Months
Empty Kit Relinquished by		Date		ĪΤ	ime.								Method	of Shipme	ent [.]			
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Relinquished by	nquished by Date/Time Compar						ved by							Date/	Time			Company
Custody Seals Intact. Custody Seal No								Cooler Temperature(s) °C and Other Remarks.										

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-3652-1

SDG Number: Lea County NM

List Source: Eurofins Carlsbad

Login Number: 3652 List Number: 1

Creator: Stutzman, Amanda

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-3652-1 SDG Number: Lea County NM

List Source: Eurofins Midland

List Creation: 12/15/22 11:29 AM

Login Number: 3652 List Number: 2 Creator: Teel, Brianna

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
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Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

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<6mm (1/4").

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 258283

CONDITIONS

Operator:	OGRID:
Permian Water Solutions, LLC	373626
PO Box 2106	Action Number:
Midland, TX 79702	258283
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	9/1/2023