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

Responsible Party PERMIAN WATER SOLUTIONS, LLC

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	nJXK1616127644
District RP	1RP-4305
Facility ID	
Application ID	

Release Notification

Responsible Party

OGRID 373626

Contact Name JENNI USHER		Contact 7	Contact Telephone 512-820-8772			
Contact email JENNI@PERMIANWS.COM			Incident	Incident # (assigned by OCD) nCH1834760902, nOY1823336566,		
Contact mailing	ng address	PO BOX 2106,	MIDLAND, TX 7	79702		nOY1821950108, nCH1821239639, nOY1803834027, nOY1730058924,
To the L	22 48086		Location	of Release S		nKL1632848695, nJXK1616127644, nKJ1512041707, nTO1502927174, nPAC0531137785
Latitude	32.48080		(NAD 83 in dec	Longitude imal degrees to 5 dec	-103.4 imal places)	
Site Name K	AISER STA	ATE SWD #009		Site Type	SALT WATE	ER DISPOSAL
Date Release I	Discovered			API# (if ap	oplicable) 30-02	25-02538
Unit Letter	Section	Township	Range	Сои	ınty	
F	13	21S	34E	LEA		
X Crude Oil		Volume Released	that apply and attach d (bbls) UNKNO		Volume Re	the volumes provided below) covered (bbls)
X Produced	Water	Volume Released	· / UNKIN	OWN		covered (bbls)
		produced water >		moride in the		110
Condensat	e	Volume Released	d (bbls)		Volume Re	covered (bbls)
☐ Natural Ga	ıs	Volume Released	d (Mcf)		Volume Re	covered (Mcf)
Other (des	cribe)	Volume/Weight	Released (provide	e units)	Volume/We	eight Recovered (provide units)
Cause of Rele C-141 FILEI		RESS MULTIPLE	HISTORICAL II	NCIDENTS AT 1	THIS WELL.	

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Incident ID	nJXK1616127644
District RP	1RP-4305
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respon	sible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	AT LEAST ONE OF THE HISTORICAI	L INCIDENTS REPORTED WAS GREATER THAN 25 BBLS,
19.13.29.7(A) NWIAC!	WHICH SIGNIFIES A MAJOR RELEAS	SE.
X Yes No		
*	·	om? When and by what means (phone, email, etc)?
PLEASE SEE PREVIOU	US C-141'S.	
	Initial Re	esponse
The responsible p	party must undertake the following actions immediately	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	ive been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.
X All free liquids and re	ecoverable materials have been removed and	I managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain v	why:
has begun, please attach	a narrative of actions to date. If remedial e	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.
I hereby certify that the infor	rmation given above is true and complete to the h	best of my knowledge and understand that pursuant to OCD rules and
		ications and perform corrective actions for releases which may endanger CD does not relieve the operator of liability should their operations have
failed to adequately investigated	ate and remediate contamination that pose a threa	at to groundwater, surface water, human health or the environment. In
addition, OCD acceptance of and/or regulations.	f a C-141 report does not relieve the operator of i	responsibility for compliance with any other federal, state, or local laws
Printed Name: JENNI	LISHER	Title: REGULATORY ANALYST
		Title: REGULATORT ANALTST
Signature: Jenní U.	sher	Date: 9/14/2021
email: JENNI@PERML	ANWS.COM	Telephone: 512-820-8772
		
OCD Only		
Received by:		Date:
<u></u>		

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Incident ID	nJXK1616127644
District RP	1RP-4305
Facility ID	
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.

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7611			1

Incident ID	nJXK161627644
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Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a thr addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name:	_ Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:

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Incident ID	nJXK161627644
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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 points ☐ 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
<u>Deferral Requests Only</u> : Each of the following items must be con	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around prodeconstruction.	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.
	ertain release notifications and perform corrective actions for releases
which may endanger public health or the environment. The acceptar liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local later.	and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
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 A	Approval
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.

Received by OCD: 8/29/2023 3:51:49 PM Form C-141 State of New Mexico

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Oil Conservation Division

Page 6 of 1449 Incident ID nJXK1616127644 District RP 1RP-4305 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.

Closure Report Attachn	nent Checklist: Each of the fol	llowing items must be incl	luded in the closure report.	
A scaled site and sam	apling diagram as described in 19	9.15.29.11 NMAC		
Photographs of the remust be notified 2 days p		or photos of the liner integr	rity if applicable (Note: appropriate OCD District	t office
Laboratory analyses	of final sampling (Note: appropr	riate ODC District office m	nust be notified 2 days prior to final sampling)	
Description of remed	iation activities			
and regulations all operator may endanger public health should their operations have human health or the environ compliance with any other restore, reclaim, and re-veg	rs are required to report and/or find or the environment. The accepte failed to adequately investigate forment. In addition, OCD acceptederal, state, or local laws and/getate the impacted surface area 13 NMAC including notification content.	tile certain release notification trance of a C-141 report by the and remediate contamination of a C-141 report doctor regulations. The respont to the conditions that exists to the OCD when reclamation to the OCD when reclamat	ny knowledge and understand that pursuant to OC tions and perform corrective actions for releases very the OCD does not relieve the operator of liability ation that pose a threat to groundwater, surface we see not relieve the operator of responsibility for insible party acknowledges they must substantially ted prior to the release or their final land use in the instantian and re-vegetation are complete.	which ty vater,
OCD Only				
Received by: Shelly Wells	<u>s</u>	Date: <u>8/</u>	/30/2023	
remediate contamination th		, surface water, human heal	d their operations have failed to adequately investight, or the environment nor does not relieve the res	
Closure Approved by:	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 Date: 1-28-2022

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**.

Phase I

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-68, 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**.

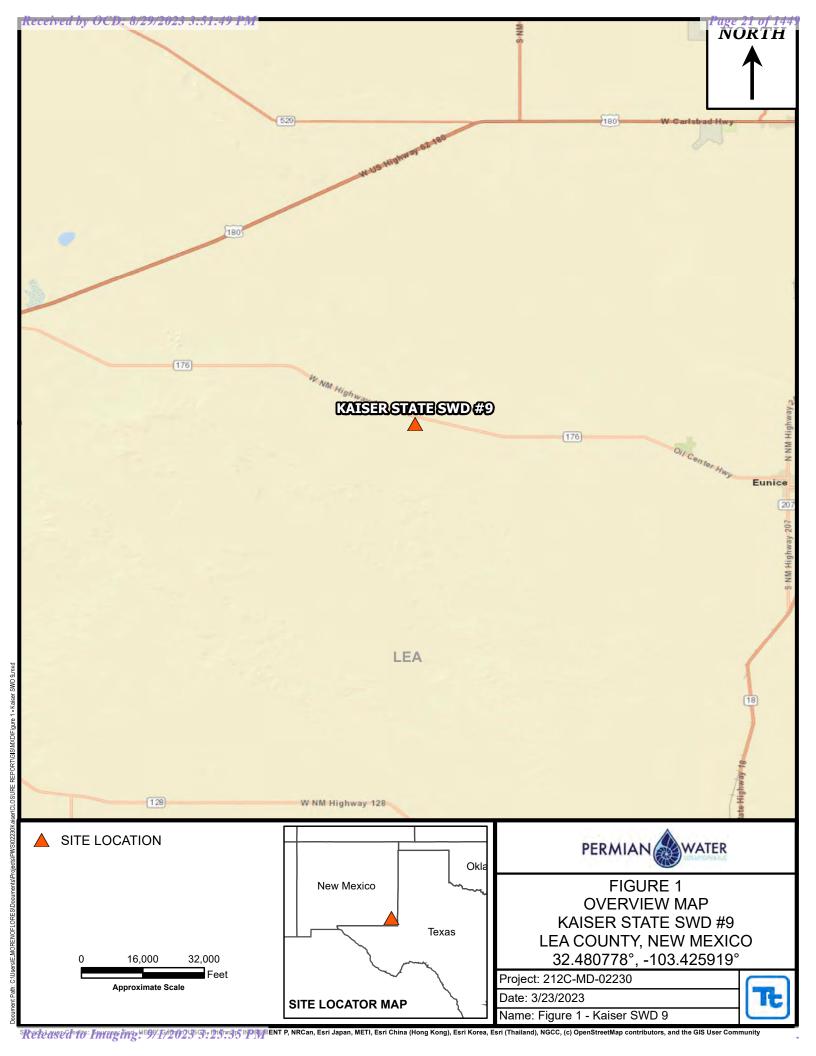
If you require any additional information or have any questions or comments, please contact us at (432) 682-4559.

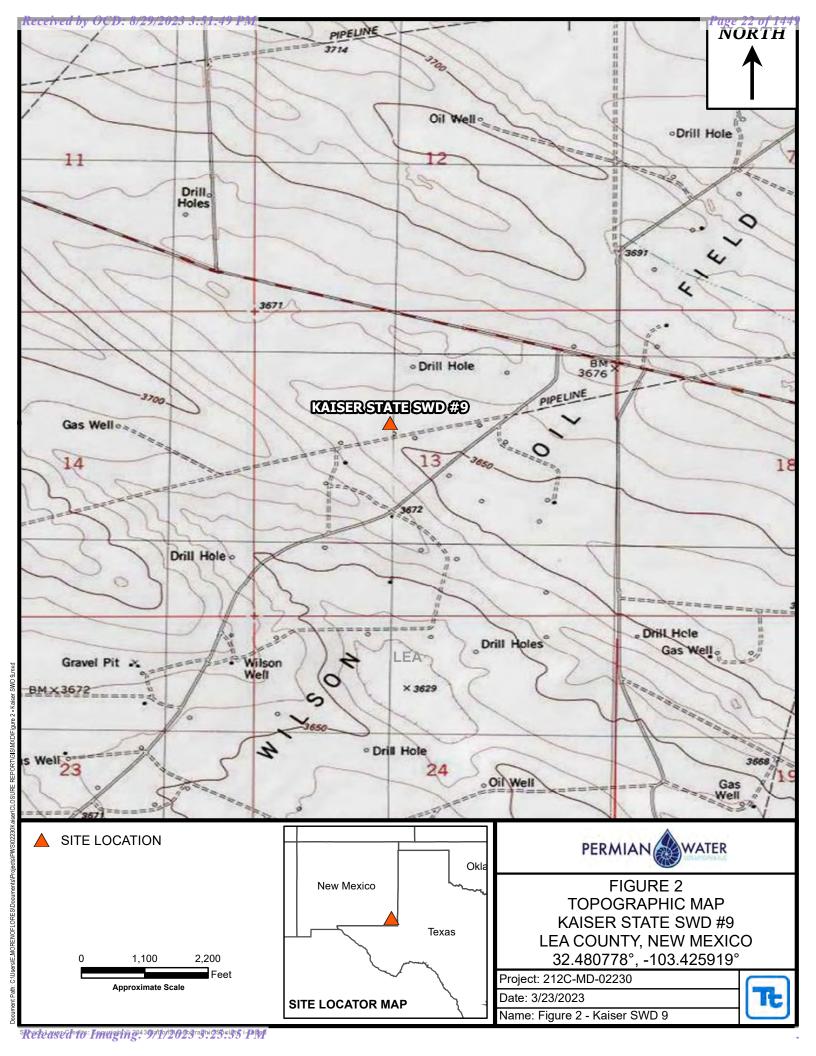
Respectfully submitted, TETRA TECH

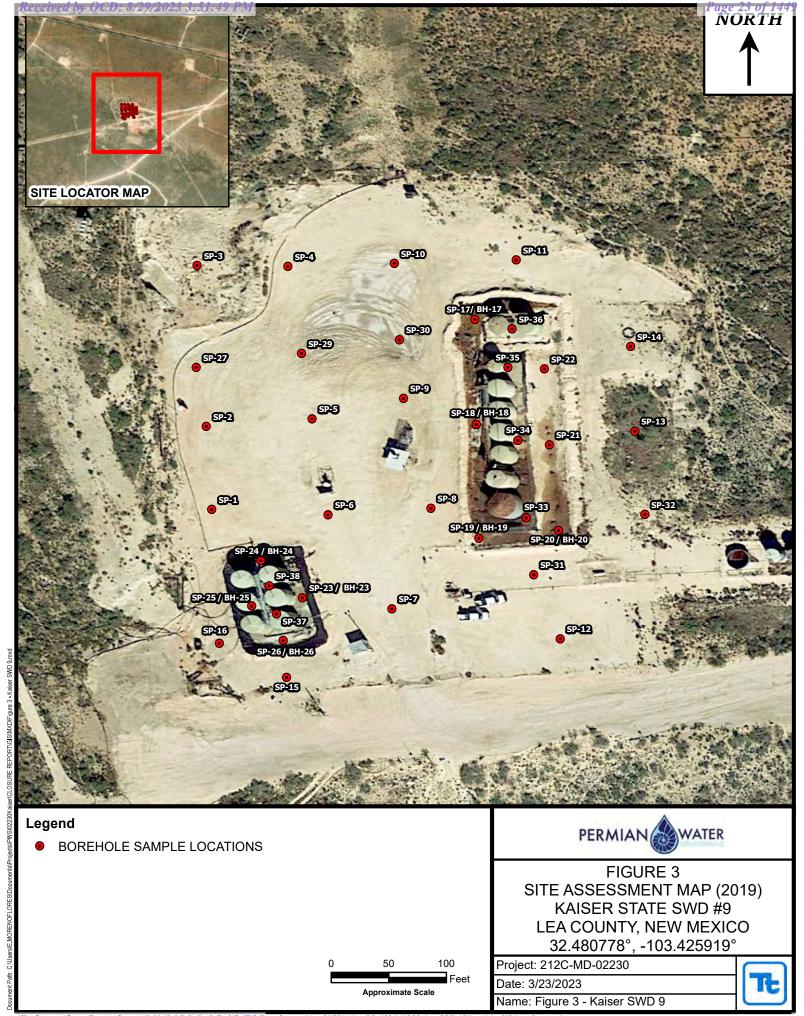
Ezequiel MorenoFlores, Geologist Brittany Long, Project Manager Clair Gonzales, P.G, Senior Project Manager

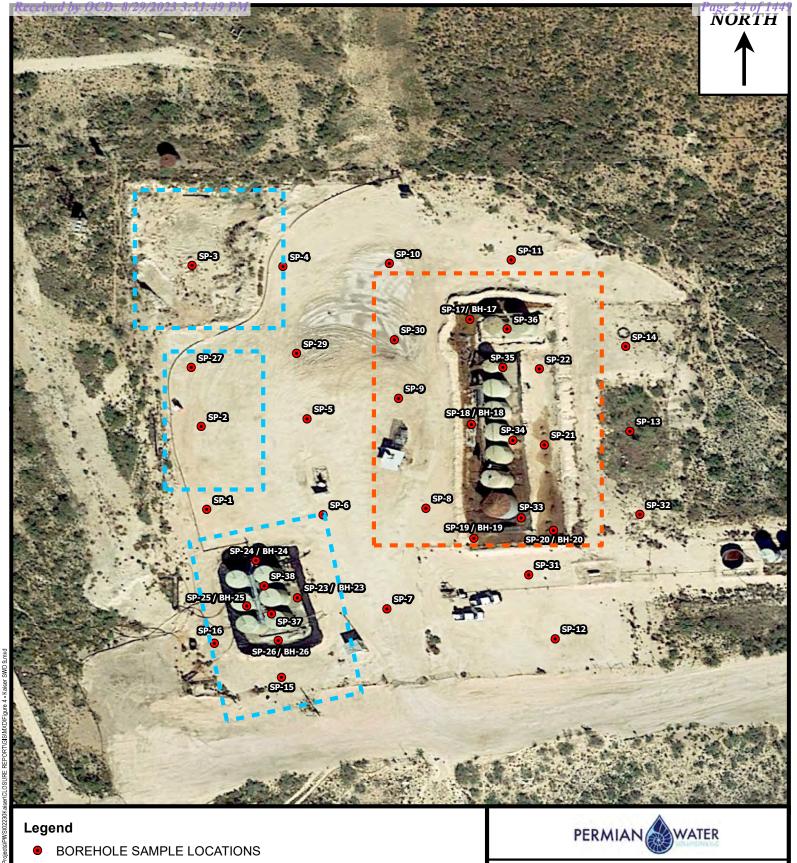


Figures









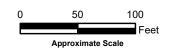
- PHASE I OUTLINE
- PHASE II OUTLINE

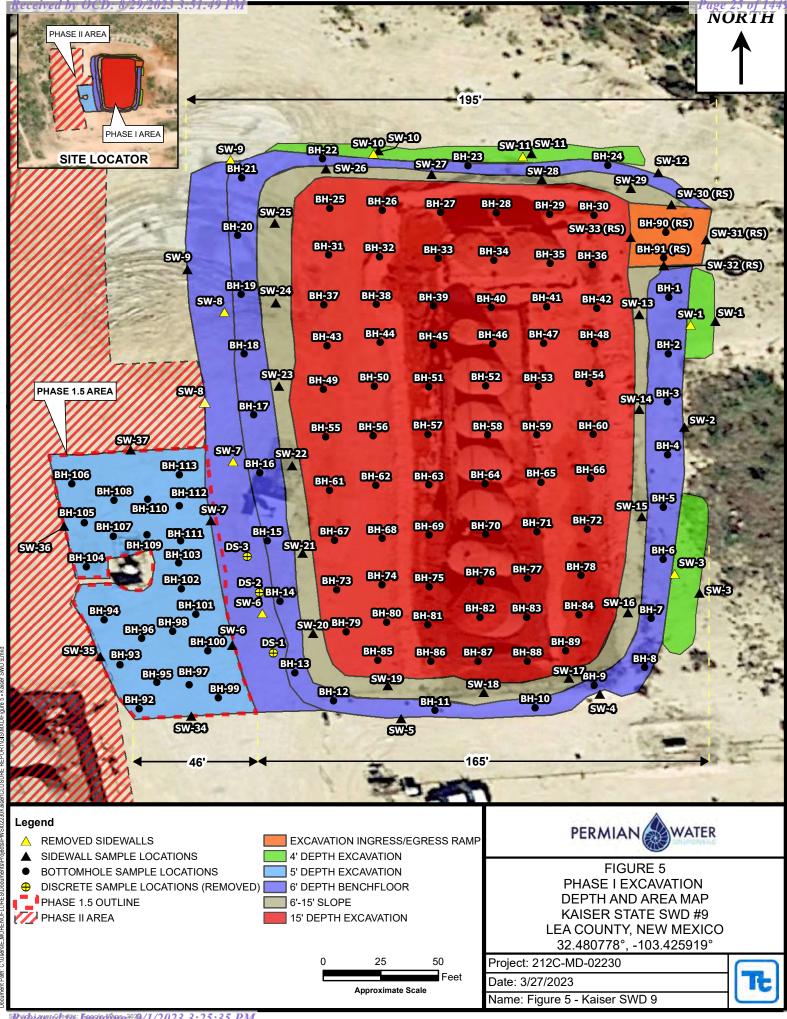
FIGURE 4
PROPOSED PHASE I AND PHASE II
KAISER STATE SWD #9
LEA COUNTY, NEW MEXICO
32.480778°, -103.425919°

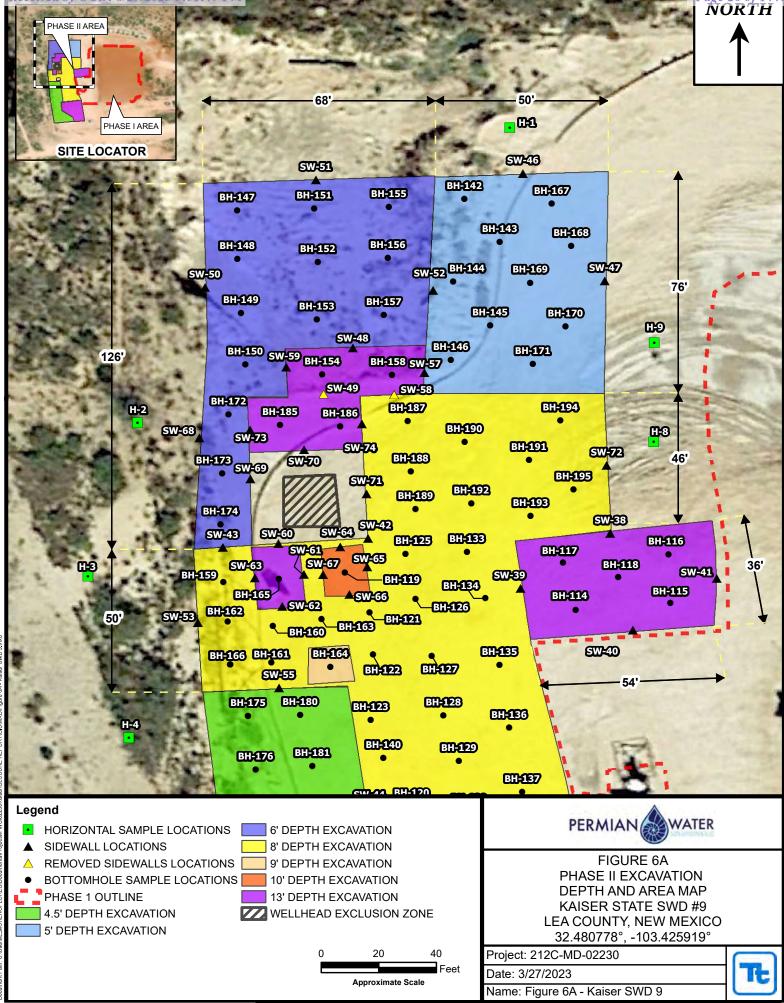
Project: 212C-MD-02230

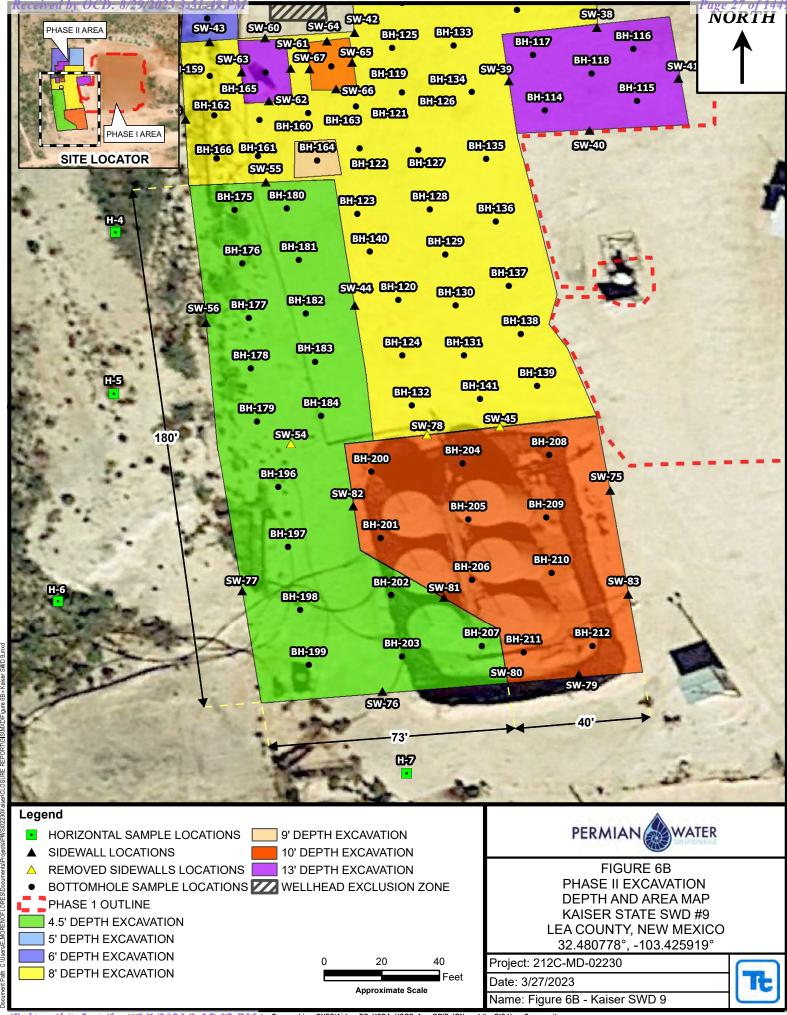
Date: 3/23/2023

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	Х	-	<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	Х	-	<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	X	-	<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	X	-	<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

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)
BH-129	7/7/2022	8	Х	-	<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	Х	-	<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
		·		ı					0.00200	0.00200	0.00200	0.00000		

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)
BH-161	7/26/2022	8	X	-	<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

		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	Х	-	<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	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-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

			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	X	-	<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	X	-	<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>

0	CD	Permitting

- Home
- Searches
- Incidents
- Incident Details

NPAC0531137785 2005 MINOR A SWS @ 30-025-02538

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		Units				
Cause	Source	Materiai	Unk.	Released	Recovered	Lost	Onits	
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

Received by OCD: 8/29/2023 3:51:49 PM tate of New Mexico
Oil Conservation Division

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

	Page 33 of 1449
Incident ID	NPAC0531137785
District RP	
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.

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

	Release Notification and Corrective Action											
						OPERAT			al Report			
Name of Co	mpany P	yote Water	System	ıs, LLC		ContactJerry Burton Operations Manager for NM						
		Illinois STE	2 950 N	lidland TX		Telephone No. 432~448~4917						
Facility Nar	ne				ŀ	facility Typ	e Production	n Water				
Surface Ow	ner Pyote	Water Sys	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/West Line	County			
С	13		34	10 ft	N/S	3			LEA COUNTY			
-Г		25	• •	titude 32.4808	355153	425figitud	e -103.425	630765566				
	NATURE OF RELEASE											
	Type of Release 20 bbls production water Volume of Release 20 bbls Volume Recovered 20 bbls											
Source of Re							lour of Occurrence	$e_{1/14}/1$ Bate and 1	Hour of Discovery 1/14/15			
Was Immedia	ate Notice (Yes [No Not Re	quired	If YES, To	Whom?	Jerry Burton N	M OM			
By Whom?	Jerry Bur	ton				Date and H	lour					
Was a Water	course Read	ched?	Yes 🖸	No No		If YES, Vo	lume Impacting th	he Watercourse.				
If a Watercou	ırse was Im	pacted, Descri	be Fully.	k								
none	If a Watercourse was Impacted, Describe Fully.*											
Describe Cau	Describe Cause of Problem and Remedial Action Taken.* Vac truck over filled the sumps~/ he failed to suck it out when they are instructed to do on each load. It is posted as well, at the sign in											
ticket area		viie ouriipo	110 100110		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			т те те				
Describe Are	a Affected	and Cleanup A	Action Tak	xen.* The clean i	ıp area	or						
									tion is done. Load lines 3&4			
							-		the snow we have had since			
		ry enough to	work on	those lines. DU	JE TO N	AOTHER NA	ATURE we have	had a company	go out several times to do this			
	fy that the								uant to NMOCD rules and			
									eases which may endanger			
									eve the operator of liability , surface water, human health			
									ompliance with any other			
federal, state,	or local la	ws and/or regu	lations.									
	$\overline{\mathcal{D}}$,					OIL CONS	SERVATION	<u>DIVISION</u>			
Signature:	Temotor	the_						/// -				
	Jerry F	Burton			Ä	Approved by	Environmental Sp	pecialist:				
Printed Name	e: '											
Title: Open	rations N	Manager fo	r NM		A	Approval Dat	e : 1/29/15	Expiration 1	Date: 3/29/15			
E-mail Addre	ess: audra	a@pyotewa	atersyst	ems.com		Conditions of Approval:						
							11		Attached			
Date: 1~23~	1 C1	TCNI		432~448~49	17	Site sam	ples required.	Deliniate	1RP-3512			
Attach Addi	tional She	ets If Necess	ary			and rem	ediate as per l	NMOCD	204052			
						guides.	294873					
						Submit final C-141 by 3 nTO15029						

Received by OCD: 8/29/2023 3:51:49 PM tate 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 be	ckfill or photos of the liner integrity if applicable (Note: appropriate OCD District office
must be notified 2 days prior to liner inspection)	exim of photos of the finer 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)
	ppropriate one bistrict 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 invhuman 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 notice. Printed Name: Dusty McInturff	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 prestigate 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 acceptance of a C-141 report does not relieve the operator of responsibility for a sand/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
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 r 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

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 87	505		
Release Notificat	tion and C	orrective A	ction	
	RATOR		oox Initial Rep	oort Final Rep
Name of Company PYOTE WATER SYSTEMS, LLC	Contact			tions Manager
Address 400 W. Illinois Ste 900	Telephon	e No. 432.44	8.4917 or 432.	.448.5323(Audra)
Facility Name Kaiser SWD				ter DIDPOSAL
			3 30 30	
Surface Owner Pyote Water Systems, LLC Mineral Owner	r Pyote Water Sy	stems, LLC	API No.	30-025-02538
1.0CA	TION OF REL	FASE		
	orth/South Line	Feet from the	East/West Line E/W	County Lea COUNTY
Latitude	Longitud	le	9	
Type of Release; production water	Volume o	ASE f Release 100BBI	S Volume I	Recovered 100 BBLS
Source of Release		Hour of Occurren		Hour of Discovery
Vac truck (unknown due to no camera's) hit load line 3	4/24/2015			2:35 am
Was Immediate Notice Given X Yes No Not Required	If YES, T	o Whom? Jerry E	Burton	
By Whom? Unknown driver (575)-390-3836	Date and l	HOUR; 4/24/201	5 2:35 am	
Was a Watercourse Reached?	If YES, V	olume Impacting	the Watercourse.	
☐ Yes *** Ne***		SECENIE		
If a Watercourse was Impacted, Describe Fully.*		RECEIVE	D	
	В	y OCD Dist	rict 1 at 11:10	0 am, Apr 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	ed a large amou r Kenny repaired T Services	nt of water on the	e pad af the location	n, than noticed line 3 wus had rk 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 releasing public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and reme 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 n diate contaminat	and perform corre narked as "Final Fion that pose a the	ctive actions for rel Report" does not rel reat to ground wate	eases which may endanger ieve the operator of liability r, surface water, human health
16 -112-1		OIL C	ONSERVATION D	DIVISION
Signature: Printed Name: Jerry Burton		APPA - 40 - APP 1070000	Ve O	Q. Jorg
Aitle: NM Operations Manager for Pyote Water systems, LLC		Environmental S		
jerry@pyotewatersystems.com or audra@pyotewatersystems.com	Approval Da	te: 04/30/2015	Expiration	Date: 07/30/2015
E-mail Address:	Conditions of	f Approval:		
4-26-2015	Site samples r	equired. Delineat		Attached 294873 1RP 3621
Date: 4/26/15 Phone:432.448.4917	as per MNOC	D guides. Geotag		1RF 3021
Attach Additional Sheets If Necessary	remediation r	equired.		

Received by OCD: 8/29/2023 3:51:49 PMate of New Mexico
Page 6 Oil Conservation Division

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: 8/29/2023 3:51:49 PM

<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.

Page 58 of 1449

Release Notification and Corrective Action

						OPERA	ГOR		🗙 Initia	l Report		Final Report
Name of Co	mpany F	Pyote Wate	ns,LLC		Contact Je			_	•			
Address 4	100 W Illino	ois Ste 900 N		Telephone No. 432-448-4917								
Facility Nar	ne Kai	ser Swd				Facility Typ	e producti	ion Wate	er			
Surface Ow	ner STA	TE		Mineral O	wner	STATE			API No.	30-02	5-025	38
				LOCA	TIOI	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/W	est Line	County		
F 13 21s 24s LEA COUNTY										Υ		
Latitude 32.4808578- Longitude 103.4256592 nad 83												
				NAT	URE	OF RELI	EASE					
Type of Relea		ing struck load	tanks while	e driver was unloa	ıding		Release 1050 B		Volume R		1050	
Source of Re		duction water					lour of Occurrence	ce 5-17-16	Date and I	Hour of Dis	covery	- 4 PM
Was Immedia	ate Notice C		, , ,	lar 🗆 arab		If YES, To	Whom?					
			Yes 📙	No Not Re	equired				N via teleph	one by drive	er	
By Whom?							lour 5/17/16 4P					
Was a Water	course Reac	hed?	/, _	Lar		If YES, Vo	olume Impacting	the Water	rcourse.			
			Yes 🗌	No		1050 BL	S					
	If a Watercourse was Impacted, Describe Fully.* fire melted parts of the liner,water got under the liner											
Describe Cau	se of Proble	em and Remed	lial Action	ı Taken.*								
		nks and bu he fire dept		500 bbl tanks l the fire .	less th	an 2 bbls	breeched cor	ntainme	nt. called	d vac trud	k out	to empty
Describe Are	a Affected a	and Cleanup A	ction Tak	en.*								
		-		crew cleaning	up ar	ıd disposin	g of old tanks	s and ca	at walk to	o sundow	'n	
regulations al public health should their cor the environ	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.										ndanger f liability ıman health	
							OIL CON	SERV	ATION	DIVISIO	N	
	Jarry	Ruston										
Signature:	- 	Burton			Approved by	Environmental S	Specialist:	Jamis	Klyer			
Printed Name: Jerry Burton								<u> </u>				
Title: NM (Operation	ıs Mgr				Approval Dat	ee: 06/09/2016	Е	xpiration I	Date: 08/09	9/2016	
E-mail Addre	ess: jerry	@pyotewat	tersyste	ms.com		Conditions of			111 -	Attached		
Date: 5-18-	2016		Phone:	4324484917		Discrete samples only. Delineate and remediate per NMOCD guidelines. Attached IRP 4305						

* Attach Additional Sheets If Necessary

nJXK1616127644 pJXK1616127747

Received by OCD: 8/29/2023 3:51:49 PM State of New Mexico
Page 6 Oil Conservation Division

Closure

Closure Report Attachment Checklist: Each of t	the following items must be included in the closure report.
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Photographs of the remediated site prior to bac must be notified 2 days prior to liner inspection)	kfill or photos of the liner integrity if applicable (Note: appropriate OCD District office
	opropriate ODC District office must be notified 2 days prior to final sampling)
Laboratory analyses of final sampling (Note: ap	opropriate ODC District office must be notified 2 days prior to final sampling,
Description of remediation activities	
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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	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:

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

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 nKL1632848695

Received by 10CD: 8/29/2023 3:51:49 PM State of New Mexico
Page 6 Oil Conservation Division

	Page 01 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	
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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Signature: De Sur Suff	
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

pOY1730059151

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.

			Rela	ease Notifica					71 v. i.i.	in .	n' in			
Name of C	ompany Ca	amhrian Mar	agement	t I td		OPERATOR								
Name of Company Cambrian Management, Ltd. Address P.O. Box 272, Midland, TX 79702						Telephone No. (432)631-4398								
Facility Name Kaiser State SWD						Facility Type Salt Water Disposal								
Surface Ov	vner State			Mineral Ov	vner S	State			API No	. 30-025-02538				
				LOCA'	TION	OF RE	LEASE							
Unit Letter F	Section 13	Township 21S	Range 34E			South Line	Feet from the	East/We	st Line	County Lea				
			Latitud	le 32.48008578	Lo	ongitude_	-103.4256592	NAD83	3 ==					
				NATU	JRE	OF REL								
Type of Rele	Produc	ed Water & C	rude Oil			Volume of 50 bbls	f Release		√olume I 0 bbls	Recovered				
Source of Ro	elease Unkno	own					Hour of Occurrence		Date and	Hour of Discovery 017, 12:35 PM				
Was Immed	iate Notice (Yes 🔽	No □ Not Rec	quired	If YES, T				,				
By Whom?	N/A					Date and	Hour N/A							
Was a Water	rcourse Read			71 31		If YES, Volume Impacting the Watercourse.								
			Yes 🗸	70.00			RECEIVE	FD						
If a Waterco	urse was Im	pacted, Desci	ibe Fully.	*					4 47	pm, Oct 27	. 0047			
The cause	e of the re	lease is un	determir	ned and is curre	ntly ur	nder inves	tigation. No rei	medial a	ction ha	as been taken at	this point.			
Describe Ar	ea Affected	and Cleanup	Action Ta	ken.*										
affected a	area inside	the berms	measu	ry and secondar red approximate o guidelines.										
regulations a public health should their or the enviro	all operators n or the envi operations h onment. In a	are required to ronment. The nave failed to	o report a acceptan adequatel OCD acce	e is true and comple nd/or file certain re- ce of a C-141 repor y investigate and re- ptance of a C-141 re-	lease no t by the mediate	otifications NMOCD r contamina	and perform corre narked as "Final R tion that pose a the we the operator of	ctive action Report" doe reat to ground responsible	ns for rel es not rel und wate ility for c	eases which may er ieve the operator of r, surface water, hu ompliance with any	ndanger Tiability man health			
Signature:	Denise	Jones R	Ralalos	Analyst					TION B	DIVISION				
Printed Nam				of Cambrian Mg	mt.)	Approved b	y Environmental S							
Title: Owne	er					Approval D	ate: 10/27/20	017 _{Ex}	piration	Date:				
E-mail Addı	ess; todd@	trinityoilfiel	dservice	es.com			of Approval:			Attached				
Date: 10/2		ets If Neces		: (575) 631-312	9	loop attached directive								

1RP-4855

nOY1730058924

Received by OCD: 8/29/2023 3:51:49 PM tate of New Mexico
Page 6 Oil Conservation Division

Closure

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✓ Laboratory analyses of final sampling (Note: a	appropriate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
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Signature: Signature:	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 remediate contamination that poses a threat to grour party of compliance with any other federal, state, o	responsible party of liability should their operations have failed to adequately investigate and andwater, surface water, human health, or the environment nor does not relieve the responsible local laws and/or regulations.
Closure Approved by:	Date:
Drintad Nama:	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.

Santa Fe, NM 87505														
Release Notification and Corrective Action														
							OPERATOR						Final Report	
		ambrian Man				Contact M								
		2, Midland, T	X 79702					(432)631-43			_			
Facility Nar	ne Kaiser	State SWD				racility 13	pe Sa	alt Water D	isposai					
Surface Ow	ner State			Mineral C	wner S	State				API	No.	30-025-0	2538	
				LOCA	TION	OF RE	LEA	ASE						
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Fee	t from the	East/V	West Li	ine	County .		
F	13	21S	34E									Lea		
Latitude 32.48008578 Longitude -103.4256592 NAD83														
				NAT	URE	OF REI	EAS	SE						
Type of Rele	ase Produc	ed Water				Volume of		ease		Volu 10 b		ecovered		
Source of Re	lease Seal c	on pump				Date and Unknowr		of Occurrent	ce			Hour of Dis 8, 10:00 AM		
Was Immedia		Given?	Yes 🗸	No Not Re	equired	If YES, 7 N/A	o Who	om?						
By Whom?				,	1	Date and	Hour							
Was a Water	N/A course Read	ched?				N/A If YES, V	/olume	e Impacting	the Wate	ercours	se.			
			Yes 🔽] No		N/A RECEIVED								
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.	k								_		- 0040
Describe Cau	ise of Probl	em and Reme	dial Actio	n Taken.*			Ву	Olivia	Yu a	it 9:	34	am, F	eb 0	7, 2018
			acuum t	ruck was utilize	ed to re	cover fre	e-sta	nding liqui	d. The	seal	was	repaired	during	g initial
response	activities.													
Describe Are	a Affected	and Cleanup	Action Tal	æn.*										
				ry and second										
				ed approximat										
		se on 10/18 _O guidelin		ee 1RP-4855)	. Reme	ediation o	the	mpacted a	area wi	III be d	cond	ucted in	accor	dance with
INIVIOCE	and Minor	LO guidelli ii	55.											
I hereby certi	ify that the	information gi	ven above	e is true and comp	lete to th	ne best of m	y knov	wledge and u	understa	nd that	purs	uant to NM	OCD r	ules and
				nd/or file certain r										
				ce of a C-141 report investigate and r										
or the enviro	nment. In a	addition, NMC	OCD accep	otance of a C-141										
federal, state.	or local la	ws and/or regu	ılations.					OIL CON	CEDV	/ A T I /	ONI	DIVISIO)NI	
		. 0					7	JIL CON	ISEK V	AII	OIN (JV JV	<u>JIN</u>	
Signature:	Lone	1010	6									7		
Printed Name	e: Denise	Jones			_	Approved t		ironmental S		st:		\bigvee		
Title: Regul	atory Ana	al <u>y</u> st				Approval D	ate:	2/7/2018	3	Expira	tion I	Date:		1
E-mail Addre	ess: djones	s@cambria	nmgmt.c	om		Conditions	of App	oroval:				Attached	ı 🚽	
Date: 2/	4/18	. 1631		: (432) 620-91	81	see att	ache	ed direct	ive					
* Attach Addi	tional She	ets If Necess	ary		F	1RP-49	60]				_		
						40	55	I InOY	1803	8340	27			

pOY1803834550

Received by OCD: 8/29/2023 3:51:49 PM State of New Mexico
Page 6 Oil Conservation Division

Closure

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Y	
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Signature: Small	
email: dmcinturff@dufrane.com	Telephone:(432) 634-7865
OCD Only	
Received by:	Date:
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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 <u>District III</u> 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.

Release Notification and Corrective Action												
		OPERATOR										
Name of Co		Contact Mike Anthony										
Address PO Facility Nat		Midland TX	79702			Telephone I Facility Typ	No . 432-631-4	398				
racility Nai	ile Kaisei	State SWD				racinty Typ	ie swb					
Surface Ow	mer State			Mineral ()wner	State			API No	. 30-025-0	02538	
Sarrace 3 W	ner state			•		N OF RE	LEACE		7117110	50 025	<u></u>	
Unit Letter	Section	Township	Range	Feet from the		h/South Line	Feet from the	East/	West Line	County		
F	13	21S	34E							Lea		
			Latitud	le 32.48085	78 _ 1	Longitude -1	03.4256592	NAD	983			
				NAT	— TURI	E OF REL	EASE					
Type of Rele							Release 150 bbl			Recovered		
Source of Re	lease Well	head				Date and F 06/20/2018	Iour of Occurrent	ce		Hour of Dis 18 10:00A		
Was Immedi	ate Notice (Yes X	No Not Re	quired	If YES, To			00/20/20	10.002	171	
By Whom?						Date and F	Iour					
Was a Water	course Read	ched?	Yes X	No		If YES, Vo	olume Impacting	the Wat	ercourse.			
If a Watercon	ırse was Im	pacted, Descr	ibe Fully.	*								
Describe Cau	ise of Probl	em and Reme	dial Actio	n Taken.*								
Nipple on we	ellhead brok	te off – nipple	was repla	aced								
	s contained	and Cleanup <i>t</i> to the caliche		ken.* water was picked	up. T	his was on top	of a previous spil	ll that w	as already r	reported and	is in th	ne process to
regulations a public health should their or or the environ	ll operators or the envioperations hument. In a	are required tronment. The nave failed to	o report and acceptant adequately OCD accep	e is true and comp nd/or file certain n ce of a C-141 repo y investigate and n otance of a C-141	release ort by t remedia	notifications a he NMOCD mate contaminati	nd perform corre- arked as "Final R on that pose a the	ctive act Report" (reat to g	tions for relations for relations for relations from the transfer round water	eases which ieve the ope r, surface w	may en rator of ater, hu	ndanger f liability ıman health
							OIL CON	SERV	ATION	DIVISIO	<u>N</u>	
Signature:									PI	L		
Printed Name	e: Denise J	ones				Approved by	Environmental S	Specialis	st: 60	(
Title: Regul	latory Analy	yst				Approval Da	7/31/2018	3	Expiration	Date:		
E-mail Addre	ess: djones	@cambrianms	gmt.com			Conditions o			_	Attached		•
Date: 06/21/	2018	Phone:				See at	tached direc	ctive		7 Illuciice		
						1RP-5139		рСН	182123	9860		
eleased to In	naging: 9/	/ <mark>1/2023 3:2</mark> 5	5:35 PM			nCH1821	239639					

Received by 10CD: 8/29/2023 3:51:49 PM tate of New Mexico
Page 6 Oil Conservation Division

	Page 6/ 01 1449
Incident ID	nCH1821239639
District RP	1RP-5139
Facility ID	
Application ID	

Closure

Closure Report Attachment Checklist: Each of t	the 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 bac 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	opropriate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
	rue and complete to the best of my knowledge and understand that pursuant to OCD rules
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	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 a sand/or regulations. The responsible party acknowledges they must substantially are area to the conditions that existed prior to the release or their final land use in acceptance of the occupance occupance of the occupance occupan
Signature: Dis Mety	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 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: 8/29/2023 3:51:49 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**

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

			Rel	ease Notific	cation	and Co	rrective A	ction	n	
						OPERA	TOR		X Initi	al Report
Name of Co	ompany C	ambrian Ma	nagemen	t, Ltd		Contact Andy Rickard				
		, Midland, T					No. 432-620-91	181		
Facility Na	me Kaiser	State SWD				Facility Typ	e SWD			
Surface Owner State Mineral Owner					Owner S	tate			APINO	. 30-025-02538
541,1400 01	ner State			1.00		W. A. J. A. S.	ERACE		111111	,, 50 000 0000
Unit Latton	Castian	Township	Danas	Feet from the		OF RE	Feet from the	L'oct/	West Line	County
Unit Letter Section Township Range Feet from the No No										County Lea
	1		Latitu	ide 32.480938 N				NAD	83	
				NAT	TURE	OF REL				
Type of Rele							Release 200 Bb	-		Recovered 200 Bbls
Source of Re	elease Valv	е				08/06/2013	Hour of Occurrent	ce		Hour of Discovery 18 10:00AM
Was Immed	iate Notice		Yes 🗆	No □ Not Re	anired	If YES, To Christina I	Whom?		00/00/20	10 10.007141
By Whom?	Denise Ione		100	The Little	4	F 87 AV - A	Hour 08/06/2018	3.25 E	PM .	
Was a Water							olume Impacting			
			Yes X	No						
If a Waterco	urse was In	pacted, Desci	ibe Fully.	*		DEC	CEIVED			
							EIVED		_	
						By C	livia Yu at	t 1:4	8 pm, A	Aug 07, 2018
look at turn	ning up the	voltage at the	e transfo	ormers to lower p	peak cur	rent.		high c	urrent. We	are having an electrician
Only the are	a inside the	berm which is	s lined wit	th plastic was affe	cted. Al	I water was v	acuumed up.			
regulations a public health should their or the enviro	all operators or the envi operations lonment. In a	are required in are required in are required in are	o report a acceptan adequatel OCD acce	and/or file certain ace of a C-141 rep y investigate and	release nort by the remediate	otifications a e NMOCD m e contaminat	nd perform corre- parked as "Final Fion that pose a the	ctive ac Report" reat to g	tions for rel does not rel ground wate	suant to NMOCD rules and leases which may endanger leve the operator of liability r, surface water, human health compliance with any other
_		0					OIL CON	SER	VATION	DIVISION
Signature:	Danie	e Some	0							
	30 100	0				Approved by	Environmental S	Speciali	st:	1
Printed Nam	e: Denise J	lones							-	
Title: Regul	atory Analy	/st				Approval Da	te: 8/7/2018	8	Expiration	Date:
E-mail Addr	ess: djones	@cambrianm	gmt.com			Conditions o	f Approval:			
				J. State Care	1		spect liner in o	questi	on. Provid	Attached
	06/2018	A. ICXI		hone: 432-620-91	0.1	NMOCD with a concise report of the				
Attach Add	itional She	ets If Neces	sary				with affirmation	•		4DD 5440
nOY1821	950108	[50\	/10010	50272		•	ntinue to conta			1RP-5149
				950272		2) At least one photo must demonstrate				
leased to In	aging: 9/	1/2023 3:25	35 PM			-	acility is lined.			

Received by 10CD: 8/29/2023 3:51:49 PM State of New Mexico
Page 6 Oil Conservation Division

	Page 09 01 1449
Incident ID	nOY1821950108
District RP	1RP-5149
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 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	
and regulations all operators are required to report are 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	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 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 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: 5/5/33
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 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:

<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

			Rele	ease Notific	cation	and Co	rrective A	ction			
						OPERA	TOR	Х	(Initia	al Report	
Name of Co	ompany C	ambrian Ma	nagemen	t, Ltd	(Contact Mr. Mike Anthony					
Address PO Box 272, Midland, TX 79702							No. 432-631-4:	398			
Facility Name Kaiser State SWD						Facility Typ	e SWD				
						Na Car			. DI M	20.025.0250	
Surface Ow	ner State			Mineral (Owner S	State			API No	. 30-025-02538	
						OF RE	LEASE				
Unit Letter F	Section 13	Township 21S	Range 34E	Feet from the 1980	North/ North	South Line	Feet from the 1980	East/Wes West	st Line	County Lea	
			Latit	ude 32.480938				NAD83			
				NAT	TURE	OF REL					
Type of Rele							Release 500 Bb			Recovered 500 Bbls	
Was Immediate Notice Given?							Hour of Occurrence 10:00AM			Hour of Discovery 8 11:00 AM	
Was Immedi	ate Notice (Yes 🗌	No ☐ Not Re	quired	If YES, To Olivia Yu	Whom? and other OCD m	nember on I	ocation		
By Whom?	Mike Antho	nv				Date and I	lour 12:00 PM (08/17/2018			
Was a Water			Yes X	No			olume Impacting		ourse.		
Describe Car A valve did inceded. Describe Are The release vup. I hereby cert regulations a public health should their or the enviro	use of Problem to close complete was complete that the all operators or the environment. In a	and Cleanup tely contained information g are required ronment. The	Action Tall within a liven above to report a cacceptan adequately OCD acceptance.	n Taken.* ran oved into a co ken.* lined pit. All wate e is true and comp nd/or file certain ce of a C-141 rep y investigate and	er was re	lined pit @ state to the best of my otifications a e NMOCD me contamination	the unload tank and tank and tank and tank and perform corrections arked as "Final Right too that pose a three tarked as the tarked as	ks will be vanderstand of the action deport" does reat to ground	washed a	eing repaired or replaced as after all water has been picked suant to NMOCD rules and eases which may endanger lieve the operator of liability r, surface water, human health ompliance with any other	
							OIL CON	SERVA	TION	DIVISION	
Signature:	Denie	e Jon	NO.						191		
Printed Nam	e: Denise J	ones				Approved by	Environmental S	Specialist:	d		
Title: Regulatory Analyst						Approval Date: 8/21/2018 Expiration Date:				Date:	
E-mail Addr	ess: djones(@cambrianmg	gmt.com			Conditions o	f Approval:			Attached	
				Phone:432-620-91	0.1		iner in questic				
Date: 08/17/2018 Phone:432-620-9181 Attach Additional Sheets If Necessary nOY1823336566 pOY1823336912 eleased to Imaging: 9/1/2023 3:25:35 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.					

Received by OCD: 8/29/2023 3:51:49 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: Each 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)	skfill or photos of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analysis of final sampling (Note: ar	ppropriate ODC District office must be notified 2 days prior to final sampling)
	opiopriate ODC District office must be notified 2 days prior to man sampling,
Description of remediation activities	
and regulations all operators are required to report armay 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 notification. Printed Name: Dusty McInturff	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 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 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
Signature:	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 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:

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

Responsible Party Permian Water Solutions, LLC

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

OGRID

373626

Contact Nat	ne Dale G	losson	7	Con	tact Telephor	ne 432-894-3636			
Contact ema	ail dale@p	permianws.com		Incid	lent # NCH	1834760902 KAISER STATE SWD			
Contact mai	ling address	PO Box 2106,	Midland, TX 79		@ 30-025-02538				
Latitude 32.4	180938			on of Releas Longi decimal degrees to	tude103.4	125227			
Site Name K	aiser State	SWD		Site 7	ype Salt W	/ater Disposal			
D. D.I. Di						30-025-02538			
Unit Letter	Section	Township	Range		County				
F	13	21S	34E	Lea					
Crude Oil	Materia	l(s) Released (Select a	all that apply and atta	nd Volume	ecific justificati	on for the volumes provided below) ne Recovered (bbls) 16			
Produced	the same of	Volume Releas				Volume Recovered (bbls)			
Is the concentration of dissolved chloride produced water >10,000 mg/l?									
☐ Condensa	te	Volume Release			Volume Recovered (bbls)				
Natural G	as	Volume Release	ed (Mcf)		Volum	ne Recovered (Mcf)			
Other (des	The Property of Control (1997)				Volume/Weight Recovered (provide units)				
Cause of Rele	ase Oil ski	m tank overflow	; all fluids conta	ained within con	ntainment be	erm			

Received by OCD: 8/29/2023 3:51:49 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 ha	is 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 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 nent. 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:) · · · · · · · · · · · · · · · · · · ·
Signature 4	Date: 10 15 18
email:	Telephone: 432.894.3636
OCD Only DEC	EIVED
NECL	
Received by . By CH	ernandez at 4:56 pm, Dec 13, 2018

Received by OCD: 8/29/2023 3:51:49 PM tate of New Mexico
Page 6 Oil Conservation Division

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 Danart Attachment Charlelist, E-alC	the following items must be included in the closure report.
Closure Report Attachment Checkinst: Each of	the following tiems 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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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	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

You don't often get email from cory.smith@emnrd.nm.gov. Learn why this is important

CAUTION: This email originated from an external sender. Verify the source before opening links or attachments.

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

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-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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901 West Wall Street, Ste 100 | Midland, TX 79701 | www.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

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

Tetra Tech | Complex World, CLEAR SOLUTIONS™

901 West Wall Street, Ste 100 | Midland, TX 79701 | www.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 | Cory.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 <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

You don't often get email from cory, smith@emnrd.nm.gov. Learn why this is important

⚠ CAUTION: This email originated from an external sender. Verify the source before opening links or attachments. A

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 <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_ 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

nents: 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

From: Crosby, Faith <fcrosby@slo.state.nm.us> Sent: Tuesday, January 10, 2023 2:35 PM

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

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 < srosby@slo.state.nm.us; Mann, Ryan < mailto:state.nm.us; Gallegos, David < dgallegos@slo.state.nm.us; Cory, 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.

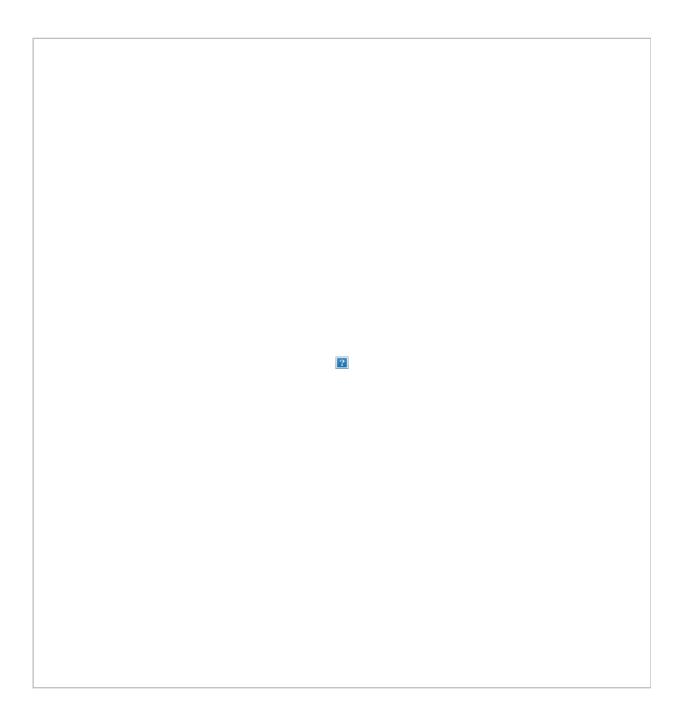
Faith, Dusty and I were on the call today and discussed these samples. I still need to summarize the meeting minutes, but we wanted to get these results circulated for everyone's review to try to avoid any hold-ups in the field for Dusty.

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:

____ Sit

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
 - . BTEX 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*
 8TEX 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.
- 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. **
- assiplien may change subject to sample date from soil and seater testing.***



	SITE INFORMATION											
		Report T	ype: Revis	ed Worl	k Plan							
General Site Info	rmation:	•	<i>y</i>									
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	API No. 30-025-02538									
County:		Lea										
GPS:			32.48086			-103.42566						
Surface Owner:		State										
Directions:	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	iter	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	<u> </u> :	20 bbls		100 bbls		1050 bbls						
Release Data:		1RP-4525		1RP-4855		1RP-4960						
Date Released:		Unknown		10/18/201		1/31/2018						
Type Release:		Produced Wa	iter		Water & Oil	Produced Water						
	Source of Contamination:			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		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	A/									
Fluid Released:	iiriatiOri.	20 bbls	/V									
Fluids Recovered												
Official Commun		16 bbls		<u> </u>								
Name:	James Corbitt				Clair Gonzale	es						
Company:	Permian Water Sc	lutions			Tetra Tech	.~						
Address:	415 W. Wall St.				901 West Wa	all Street						
	Suite 320				Suite 100	an oneet						
City:	Midland, TX 79701				Midland, Texas							
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

Re: Revised Work Plan for the Permian Water Solutions, LLC., Kaiser State SWD, Unit 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.

etra Tech



- 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 vards 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.

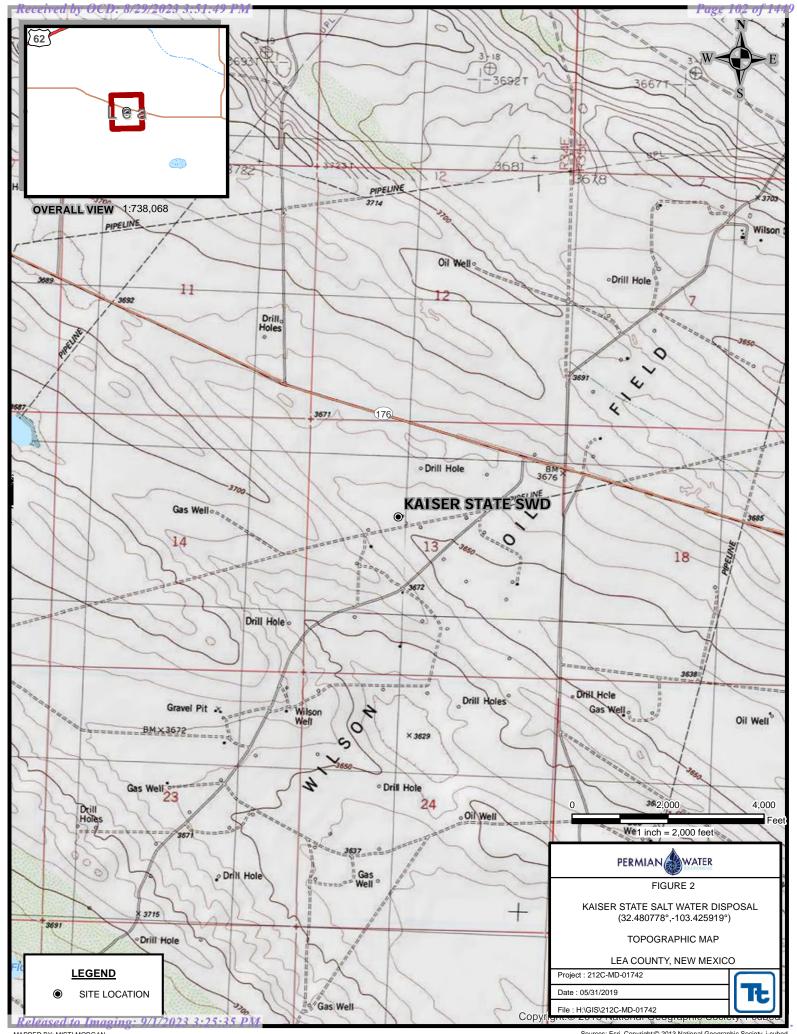
Respectfully submitted, TETRA TECH

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.



Approximate Scale in Feet





FIGURE

Tables

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

0I ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID			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	Х		<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	Х		-	-	-	-	-	-	-	-	-	1,330
	"	6-7	Х		-		-	-	-	-	-	-	-	864
	"	9-10	Χ				-	-	-	-	-	-	-	656
	"	14-15	Χ		-	-	-	-	-	-	-	-	-	496
		19-20	Х		-	-	-	-	-	-	-	-	-	576
	"	24-25	Х		-	-	-	-	-	-	-	-	-	320
	"	29-30	Х		-	-	-	-	-	-	-	-	-	144
	"	34-35	Х		-	-	-	-	-	-	-	-	-	144
SP-2	5/7/2019	0-1	Х		239	2,970	553	3,523	<0.050	0.372	0.760	6.36	7.49	6,530
	"	2-3	Х		58.6	638	128	825	<0.050	0.068	0.193	1.63	1.89	4,960
	"	4-5	Х		<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	Х		-	-	-	-	-	-	-	-	-	4,640
	"	19-20	Х		-	-	-	-	-	-	-	-	-	1,100
	"	24-25	Х		-	-	-	-	-	-	-	-	-	448
	"	29-30	Х		-	-	-	-	-	-	-	-	-	240
	"	34-35	Х		-	-	-	-	-	-	-	-	-	240
SP-3	5/8/2019	0-1	Х		<10.0	113	35.2	148	<0.050	<0.050	<0.050	<0.0150	<0.300	3,040
	5/13/2019	1-1.5	Х		<10.0	<10.0	<10.0	<10.0	<0.050	< 0.050	<0.050	<0.0150	<0.300	240
	"	2-2.5	Х		-	-	-	-	-	-	-	-	-	240
	"	3-3.5	Х		-	-	-	-	-	-	-	-	-	160
	"	4-4.5	Х		-	-	-	-	-	-	-	-	-	160
	"	5-5.5	Х		-	-	-	-	-	-	-	-	-	240
SP-4	5/7/2019	0-1	Х		<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	Х		-	-	-	-	-	-	-	-	-	928
	"	6-7	Х		-	-	-	-	-	-	-	-	-	624
	"	9-10	Х		-	-	-	-	-	-	-	-	-	464
	"	14-15	Х		-	-	-	-	-	-	-	-	-	400
SP-5	5/7/2019	0-1	Х		<10.0	91.4	56.8	148	<0.050	<0.050	<0.050	<0.0150	<0.300	5,040
	"	2-3	Х		<50.0	522	330	852	<0.050	< 0.050	<0.050	<0.0150	<0.300	784
	"	4-5	Х		<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	Х		174	7,720	2,550	10,444	<0.050	0.175	0.429	1.25	1.85	224
	"	14-15	Х		11.2	1,150	287	1,448	<0.050	<0.050	<0.050	<0.0150	<0.300	240
	"	19-20	Х		<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	Х		-	-	-	-	-	-	-	-	-	96.0

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

	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-6	5/7/2019	0-1	X	Kemoveu	<10.0	106	46.2	152	<0.050	<0.050	<0.050	<0.0150	<0.300	5,520
	"	2-3	Х		<10.0	120	51.6	172	<0.050	<0.050	<0.050	<0.0150	<0.300	2,040
	"	4-5	Х		-	-	-	-	-	-	-	-	-	640
	"	6-7	Х		-	-	-	-	-	-	-	-	-	640
	"	9-10	Χ		-	-	-	-	-	-	-	-	-	752
	"	14-15	Χ		-	-	-	-	-	-	-	-	-	576
	"	19-20	Х		-	-	-	-	-	-	-	-	-	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	Х		-	-	-	-	-	-	-	-	-	768
	"	14-15	Х		-	-	-	-	-	-	-	-	-	880
	"	19-20	Х		-	-	-	-	-	-	-	-	-	352
		24-25	Х		-	-	-	-	-	-	-	-	-	128
SP-8	5/7/2019	0-1	Х		<10.0	284	61.1	345	<0.050	0.121	0.136	0.382	0.639	30,000
	"	2-3	Χ		<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	X		-	-	-	-	-	-	-	-	-	4,400
	- "	19-20	X		-	-	-	-	-	-	-	-	-	2,360
		24-25	X		-	-	-	-	-	-	-	-	-	304
	<u> </u>	29-30	Х		-	-	-	-	-	-	-	-	-	96.0
SP-9	5/7/2019	0-1	Х		<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	X		-	-	-	-	-	-	-	-	-	2,760
	- "	6-7	X		-	-	-	-	-	-	-	-	-	4,400
		9-10 14-15	X		-	-	-	-	-	-	-	-	-	3,760 4,800
		19-20	X		-	-	-	-	-	-	-	-	-	4,560
	"	24-25	X		-		_		_	_	-	-		1,230
	"	29-30	X		-	_	_	_	_	-	_	_	_	528
	"	34-35	X		-	-	-	-	-	-	-	-	-	832
SP-10	5/8/2019	0-1	Х	l	-10.0	-10.0	<10.0	<10.0	-0.050	-0.0E0	-0.050	-0.150	-0.200	1 200
3r-10	5/6/2019	0-1 2-3	X		<10.0	<10.0 <10.0	<10.0	<10.0	<0.050 <0.050	<0.050 <0.050	<0.050 <0.050	<0.150 <0.150	<0.300 <0.300	1,280 272
	"	4-5	X		-				-	-			-	176
00.44				l I										l
SP-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 9-10	X		-	-	-	-	-	-	-	-	-	96 112
		9-10			-	-		-	-	-	<u> </u>			112

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

Sample ID Sam Da	te I	Sample Depth (ft)	In-Situ	Status		IFH (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	
SP-12 5/8/2			In-Situ						(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	Chloride (mg/kg)
3.3.5	019		Х	Removed	GRO <10.0	DRO <10.0	MRO <10.0	Total <10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,040
		0-1 2-3	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
-		4-5	X		- 10.0		- 10.0	-	-	-	-	-	-	800
		6-7	X		_	-	-		-	-	-	-	_	304
,		9-10	X		-	-	-		-	-	-	-	-	128
,		14-15	Х		-	-	-	-	-	-	-	-	-	208
SP13 5/8/2	019	0-1	Х		<10.0	159	52.8	212	<0.050	<0.050	<0.050	<0.150	<0.300	288
SP-14 5/8/2	019	0-1	Х		<10.0	504	332	836	<0.050	<0.050	<0.050	<0.150	<0.300	640
,		2-3	Х		<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	Χ		-	-	-	-	-	-	-	-	-	1,960
,		24-25	Χ		-	-	-	-	-	-	-	-	-	688
		29-30	Χ		-	-	-	-	-	-	•	-	-	208
,		34-35	Χ		-	-	-	-	-	-	-	-	-	80.0
SP-15 5/8/2	019	0-1	Х		<10.0	66.4	40.6	107	<0.050	<0.050	<0.050	<0.150	<0.300	480
•		2-3	Χ		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	< 0.300	672
,		4-5	Χ		-	-		-	-	-	ı		-	320
		6-7	Χ		-	-	-	-	-	-	-	-	-	176
SP-16 5/8/2	019	0-1	Х		<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	Χ		-	-	-	-	-	-	ı	-	-	1,330
		9-10	Χ		-	-	-	-	-	-	-	-	-	1,170
		14-15	Χ		-	-	-	-	-	-	-	-	-	288
'		19-20	Χ		-	-	-	-	-	-	-	-	-	816
SP-17 5/8/2	019	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	Χ		<50.3	<10.0	<10.0	<10.0	<0.00101	<0.00101	<0.00101	0.00522	0.00522	881
,		2-3	Х		<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
'		29-30	Χ		<50.2	<50.2	<50.2	<50.2	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	404

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

	Sample	Sample	Soil	Status			Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride		
Sample ID	Date	Depth (ft)			CDO	RO DRO I		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		MRO 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						
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	Χ		<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	X		<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	X		<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	Χ		<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	Χ		<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	Χ		<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	Sample	Soil	Status		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	Х		<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	Х		<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
	•							1				•		

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)
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	Χ		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	Х		<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	Х		<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	Х		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	Х		<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
	1	ı						ı						

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

.) TETI



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







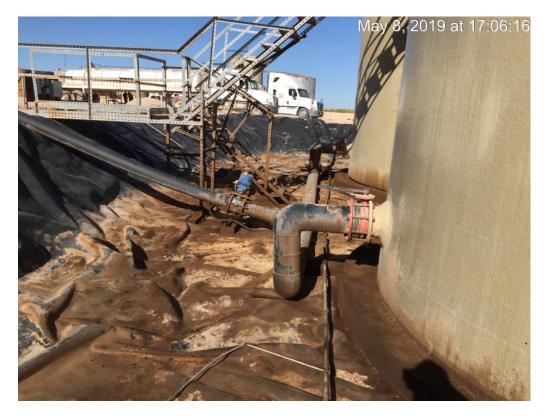
View North – Area of SP-21



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







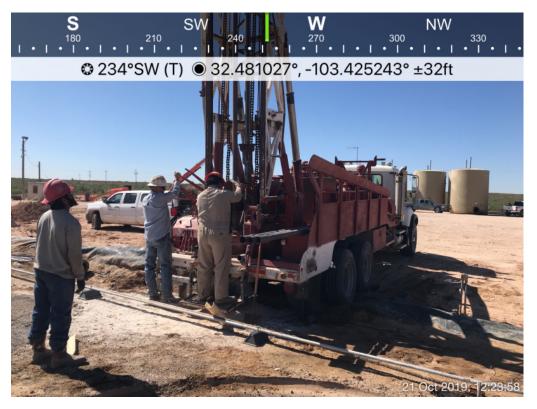
View North - Area of SP-31



View North – Area of SP-32







View Southwest – Area of BH-17



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







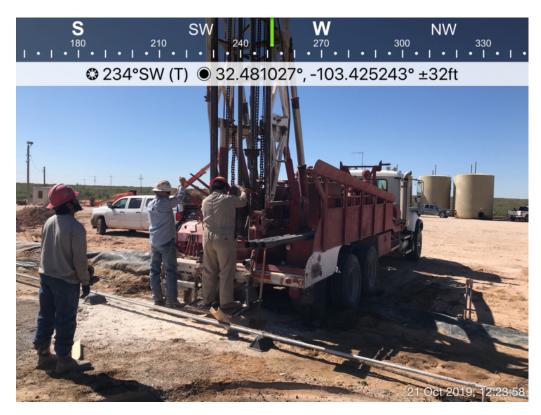
View Southeast – Area of BH-20



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





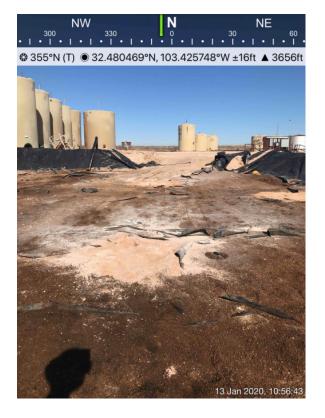
View Southeast – Area of BH-36







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

	Release Notification and Corrective Action													
						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 No. 432~448~4917 Facility Type Production Water								
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		orth/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	Volume of		ols V	olume F	Recovered 20 bbls				
Source of Re	leaseVac f	ruck					lour of Occurrenc	$e_{1/14/1}$	ate and	Hour of Discovery 1/14/15				
Was Immedia	ate Notice (If YES, To	Whom?	I awar D	N	DA OM				
	I D		Yes	No Not Re	quired			Jerry B	urton N	IM OM				
By Whom?						Date and H		1 337 4						
Was a Water	course Read	ched?	Yes 🖸	No No		none	lume Impacting t	he Waterc	ourse.					
If a Watercon	ırse was İm	pacted, Descr	ibe Fully '	*										
none	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	Site samples required. Deliniate					1RP-3512				
Attach Addi		ets If Necess	ary				ediate as per	W) D VIIIIWVV						
							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
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

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.

Release Notification	on and Corrective Action									
OPERA.	ATOR xxx Initial Report Final Report									
Name of Company PYOTE WATER SYSTEMS, LLC	Contact Jerry Burton NM Operations Manager									
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									
Surface Owner Pyote Water Systems, LLC Mineral Owner I	Pyote Water Systems, LLC API No. 30-025-02538									
LOCATI	TION OF RELEASE									
	th/South Line Feet from the East/West Line County Lea COUNTY E/W									
Latitude	Longitude									
NATU	RE OF RELEASE									
Type of Release; production water	Volume of Release 100BBLS Volume Recovered 100 BBLS									
Source of Release Vac truck (unknown due to no camera's) hit load line 3	Date and Hour of Occurrence Date and Hour of Discovery 4/24/2015 4/24/15 2:35 am									
Was Immediate Notice Given X Yes No Not Required	If YES, To Whom? Jerry Burton									
D. Wh 9 Li. L	D									
By Whom? Unknown driver (575)-390-3836 Was a Watercourse Reached?	Date and HOUR; 4/24/2015 2:35 am If YES, Volume Impacting the Watercourse.									
Yes *** No***										
If a Watercourse was Impacted, Describe Fully.*	RECEIVED									
il a waterouse was impacted, postitoe i dily.	By OCD District 1 at 11:10 am, Apr 30, 2015									
	n truck driver hit load line 3 caused a spill. We had an anonymous driver call us a large amount of water on the pad at the location, than noticed line 3 was had									
Describe Area Affected and Cleanup Action Taken.* Area affected was the pad only at the location. Jerry and his pumper h (backhoe) 2 vac trucks one from Big Buck Services and one from BT.	(enny repaired damages themselves, remedial work done by L&J services Services									
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 remedi	the best of my knowledge and understand that pursuant to NMOCD rules and notifications and perform corrective actions for releases which may endanger the NMOCD marked as "Final Report" does not relieve the operator of liability at contamination that pose a threat to ground water, surface water, human health does not relieve the operator of responsibility for compliance with any other									
	OIL CONSERVATION DIVISION									
Signature: Printed Marine: Jerry Burton	Approved by Environmental Specialist:									
Aitle: NM Operations Manager for Pyote Water systems, LLC	Approval Date: 04/30/2015 Expiration Date: 07/30/2015									
ierry@pyotewatersystems.com or andra@pyotewatersystems.com E-mail Address: 4-26-2015 Date: 4/26/15 Phone:432.448.4917	Conditions of Approval: Site samples required. Delineate and remediate as per MNOCD guides. Geotag photographs of Attached ☐ 294873 1RP 3621									
Attach Additional Sheets If Necessary	remediation required. pKJ1512042374									

Received by OCD: 8/29/2023 3:51:49 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.

pJXK1616127747

Initial Report

Page 140 of 1449

Final Report

Release Notification and Corrective Action

OPERATOR

Contact Jerry Burton

Address 4	100 W Illino	is Ste 900 N	/IIDLAND	TX 79701		Telephone N	Vo.	432-448	3-4917				
Facility Nar	ne Kai	ser Swd				Facility Type production Water							
Surface Ow	ner STAT	ГЕ		Mineral Ow	ner	STATE				API No	. 30-025-02538		
				LOCAT	rιΛ	N OF DEI		OTF.		•			
Unit Letter	Section	Township	Danga			N OF REI		from the	Foot	/West Line	County		
F	13	21s	Range 248 34E	reet from the	NOILL	/South Line	reet.	nom me	Last	/ West Line	LEA COUNTY		
-			34E										
			Lat	titude_32.48085	78-	Longitud	le_10	3.42565	92 na	ad 83			
						OF REL							
Type of Relea			tanks whil	le driver was unloadi	ng	Volume of				Volume F			
Source of Release production water Date and Hour of Occurrence 5-17-16 Date and Hour of Discovery 4 PM Was Immediate Notice Given? If YES, To Whom?													
Was Immedia	ite Notice G	iven?	Yes	No Not Requ	uired		Whon		/ DI IDT	ON via talan	aana hy drivor		
By Whom?	IINKNOWN	DRIVER				Date and H	Iour 5			ON VIA LEIEPI	none by driver		
Was a Water			•			If YES, Vo				atercourse			
, , us u , , user			Yes 🗌] No		1050 BL							
If a Watercou	rse was Imp	pacted, Descri	be Fully.*	k		1 1111 ==							
fire melte	d narte of	the liner w	ater do	t under the line	_								
ine mene	a parts or	tric infor,w	rater go	t drider the line									
Describe Cau	se of Proble	em and Remed	dial Action	n Taken.*									
liahtinina h	it lood to	ake and hu	rnad 6 F	500 bbl tanka la	oo t	han 2 bbla	hrood	shod oon	atainn	nont callo	d vac truck out to ampty		
containme					55 L	Hall 2 DDIS	DIEEC	neu con	Ilalilli	neni. Cane	d vac truck out to empty		
		•	•										
Describe Are	a Affected a	and Cleanup A	Action Tak	cen.*									
load side	containm	ent have cl	ean up	crew cleaning ເ	р а	nd disposin	g of c	old tanks	s and	cat walk t	o sundown		
I hereby certi	fy that the is	nformation gi	ven above	is true and complet	e to	the best of my	knowl	edge and u	underst	and that purs	suant to NMOCD rules and		
regulations al	l operators	are required to	report an	nd/or file certain rele	ease 1	notifications a	nd perf	form correc	ctive a	ctions for rele	eases which may endanger		
											eve the operator of liability		
											, surface water, human health		
federal, state,				nance of a C-141 re	рогі	does not renev	e the o	perator of	respon	isibility for co	ompliance with any other		
	-1 10 341 141	una 01 10gu					Ol	IL CON	SER	VATION	DIVISION		
a.	Torru	Runtan					<u>~ .</u>						
Signature:	verry	Burton								Jami	£1hux		
Printed Name	: Jerry B	urton				Approved by	Enviro	onmental S	Special	ist:			
mid NIA 4) (°	- 14					. 06/	09/2016		Б	08/09/2016		
Title: NM (peration	s wgr				Approval Dat	te:			Expiration	Date:		
E-mail Addre	ss: jerry	@pyotewat	tersyste	ms.com		Conditions of					Attached		
Date: 5-18-	2016		Phonor	4324484917		Discrete samp per NMOCD s			ite and	remediate	1RP 4305		
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District I 1625 N: French Dr., Hobbs, NM 88240 District II 811 S. First St., Arlesia, NM 88210 BD District III 1000 Rio Brazos Road, Aztec, NM 87410

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 1RP 4525 Date: 11/15/16 Phone: 432-631-4398

* Attach Additional Sheets If Necessary

nKL1632848695 pKL1632848917 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.

Name of Company Cambrian Management, Ltd. Address P.O. Dosc 272, Midland, TX 79702 Telephone No. (432)8314398 Facility Name Kaiser State SWD Surface Owner State LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County F 13 21S 34E Latitude 32.48008578 Longitude 103.4256592 NAD83 NATURE OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County Latitude 32.48008578 Longitude 103.4256592 NAD83 NATURE OF RELEASE Type of Release Produced Water & Crude Oil Solution of Release Unknown NATURE OF RELEASE Type of Release Produced Water & Crude Oil Solution of Release Unknown Was immediate Notice Given? Yes No Not Required Unknown If YES, To Whom? N/A Was a Watercourse Reached? Yes No Not Required If Yes, Volume Impacting the Watercourse. RECEIVED By Olivia Yu at 4:17 pm, Oct 27, 2017 The cause of the release is undetermined and is currently under investigation. No remedial action has been taken at this poin accordance with NMOCD and NMSLO guidelines. The release was confined to the primary and secondary earthen containment berms surrounding the SWD battery. The affected area inside the berms measured approximately 7,200 sq. ft. Remediation of the impacted area will be conducted in accordance with NMOCD and NMSLO guidelines. Therefees we was confined to the primary and secondary earthen containment berms surrounding the SWD battery. The affected area inside the berms measured approximately 7,200 sq. ft. Remediation of the impacted area will be conducted in accordance with NMOCD and NMSLO guidelines. The release was confined to the primary and secondary earthen containment berms surrounding the SWD battery. The affected area required to report and/or fite certain release notifications and perform corrective actions for releases which may endanger public health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for							OPERA	TOR			✓ Initia	al Report	Repor		
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Signature: Denise Junes Regulatory Analyst Printed Name: Todd Roberson (as agent of Cambrian Mgmt.) Title: Owner E-mail Address: todd@trinityoilfieldservices.com OIL CONSERVATION DIVISION Approved by Environmental Specialist: Approval Date: 10/27/2017 Expiration Date: Conditions of Approval:													ilth		
Signature: Denies Junes Regulatory Analyst Printed Name: Todd Roberson (as agent of Cambrian Mgmt.) Title: Owner E-mail Address: todd@trinityoilfieldservices.com Approval Date: 10/27/2017 Expiration Date: Conditions of Approval:					plance of a C-141	report d	des not tene	ve the op	ciator or	respons	donney for C	omphance with any other			
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E-mail Address: todd@trinityoilfieldservices.com Conditions of Approval: Attached	Printed Nam	e: Todd R	oberson (a	s agent	of Cambrian M	gmt.)									
Attached	Title: Owne	er					Approval Date: 10/27/2017 Expiration Date:								
Attached	E-mail Addr	ess; todd@	trinityoilfiel	dservice	es.com		Conditions	of Appro	val:			Attack=1 []			
Date: 10/23/2017 Phone: (575) 631-3129 see attached directive	Date: 10/2	3/2017		DL	. (575) 631 21	Attached directive						Attached 🖂			
Attach Additional Sheets If Necessary			ets If Neces		. (5/5) 05 1-51	23				_		1			

1RP-4855

Form C-141

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

Revised April 3, 2017 Submit 1 Copy to appropriate District Office in

Oil Conservation Division accordance with 19.15.29 NMAC. 1220 South St. Francis Dr.

pOY1803834550

Santa Fe, NM 87505 Release Notification and Corrective Action **OPERATOR** ✓ Initial Report Final Report Name of Company Cambrian Management, Ltd. Contact Mike Anthony Address P.O. Box 272, Midland, TX 79702 Telephone No. (432)631-4398 Facility Name Kaiser State SWD Facility Type Salt Water Disposal Surface Owner State Mineral Owner State API No. 30-025-02538 LOCATION OF RELEASE Unit Letter Feet from the North/South Line Feet from the East/West Line County Section Township Range F 34E 13 215 Lea 32.48008578 Longitude -103.4256592 Latitude NATURE OF RELEASE Type of Release Volume of Release Volume Recovered Produced Water 20 bbls 10 bbls Source of Release Seal on pump Date and Hour of Occurrence Date and Hour of Discovery Unknown 1/31/2018, 10:00 AM Was Immediate Notice Given? If YES, To Whom? ☐ Yes ☑ No ☐ Not Required N/A Date and Hour By Whom? N/A N/A Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☑ No N/A RECEIVED If a Watercourse was Impacted, Describe Fully.* By Olivia Yu at 9:34 am, Feb 07, 2018 Describe Cause of Problem and Remedial Action Taken.* The seal on a pump failed. A vacuum truck was utilized to recover free-standing liquid. The seal was repaired during initial response activities. Describe Area Affected and Cleanup Action Taken.* The release was confined to the primary and secondary earthen containment berms surrounding the SWD battery. The affected area inside the berms measured approximately 5,000 sq. ft. The release commingled with an area that had been affected by a release on 10/18/2017 (see 1RP-4855). Remediation of the impacted area will be conducted in accordance with NMOCD and NMSLO guidelines. 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 Signature: Approved by Environmental Specialist: Printed Name: Denise Jones 2/7/2018 **Expiration Date:** Approval Date: Title: Regulatory Analyst E-mail Address: djones@cambrianmgmt.com Conditions of Approval: Attached see attached directive Phone: (432) 620-9181 * Attach Additional Sheets If Necessary 1RP-4960 nOY1803834027

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 <u>District III</u> 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

			Rel	ease Notifi	catio	n and Co	orrective A	ction	1						
						OPERATOR									
		ambrian Mar		, Ltd.			ke Anthony			_		_			
		Midland TX	79702				No . 432-631-4	398							
Facility Na	me Kaiser	State SWD				Facility Typ	be SWD								
Surface Ow	ner State			Mineral (Owner	State		API No. 30-025-02538							
				LOC	ATIO	N OF RE	LEASE		•						
Unit Letter	Section	Township	Range	Feet from the	_	h/South Line	Feet from the	East/	West Line	County					
F	13	21S	34E							Lea					
			Latitud	32.48085	78 _{_I}	Longitude -1	03.4256592	NAD	83						
				NA	ΓURE	E OF REL									
Type of Rele Source of Re							Release 150 bb			Recovered Hour of Dis					
Source of Re	iease Well	nead				06/20/2013	Hour of Occurren	ce		Hour of Dis 18 10:00A		,			
Was Immedi	ate Notice (Yes X	No Not Re	equired	If YES, To	Whom?		1						
By Whom?						Date and I	Hour								
Was a Water	course Read	ched?	Yes X	No		If YES, Volume Impacting the Watercourse.									
Describe Car	ise of Probl	em and Reme	dial Actio	n Taken.*											
Nipple on we	ellhead brok	xe off – nipple	was repla	aced											
	s contained	and Cleanup A to the caliche		ken.* water was picked	l up. Tl	his was on top	of a previous spi	ll that w	as already 1	reported and	l is in th	ne process to			
regulations a public health should their or the enviro	ll operators or the envi operations h nment. In a	are required to ronment. The nave failed to	o report as acceptanadequately OCD accep	e is true and comp nd/or file certain ce of a C-141 rep y investigate and otance of a C-141	release ort by the remedia	notifications a he NMOCD mate contaminat	nd perform corre parked as "Final Fion that pose a the	ctive act Report" (reat to g	tions for rel does not rel round wate	eases which ieve the ope r, surface w	n may e erator o ater, hu	ndanger f liability ıman health			
							OIL CON	SERV	ATION	DIVISIO	<u>NC</u>				
Signature:									PI	L					
Printed Nam	e: Denise J	ones				Approved by	Environmental S	Specialis	st: O U	l					
Title: Regu	latory Analy	yst				Approval Date: 7/31/2018 Expiration Date:									
E-mail Addr	ess: <u>djones</u>	@cambrianm	gmt.com			Conditions o			_	Attached	i 🔽	,			
Date: 06/21/	2018	Phone:				See at	tached dired	ctive							
· · · · · · · · · · · · · · · · · · ·						1RP-5139	9	рСН	182123	9860					
eleased to In	naging: 9	/1/2023 3:23	5:35 PM			nCH1821	239639								

Form C-141 Revised April 3, 2017

Received by OCD: 8/29/2023 3:51:49 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 Santa Fe, NM 87505

1220 South St. Francis Dr.

			Rele	ease Notific	ation	and Co	rrective A	ction		
						OPERATOR X Initial Report Final Report				
Name of Company Cambrian Management, Ltd						Contact Andy Rickard				
		, Midland, T				Telephone 1	No. 432-620-91	81		
Facility Na	me Kaiser	State SWD				Facility Typ	e SWD			
Surface Ow	vner State			Mineral O	wner S	tate			API No	. 30-025-02538
				1.0000		W. A. J. A. S.	EACE			
Unit Letter	Section	Township	Range	Feet from the		OF RE	Feet from the	Foot/W	est Line	County
F	13	21S	34E	1980	North	South Ellic	1980	West	est Line	Lea
			Latitu	de 32.480938 N	Lo	ngitude -10	3.425227	NAD83	3	
				NAT	URE	OF REL				
Type of Rele							Release 200 Bb			Recovered 200 Bbls
Source of Re	elease Valv	e				08/06/2013	Hour of Occurrence	ce		Hour of Discovery 18 10:00AM
Was Immedi	iate Notice	Given?				If YES, To			08/00/20	16 10.00AW
,,	574.5. F 0.5.75.6.E.V		Yes 🗌	No 🗌 Not Rec	quired	Christina I				
By Whom? I						Date and I	Hour 08/06/2018	3:25 PN	И	
Was a Water	rcourse Rea	ched?	Yes X	No		If YES, Vo	olume Impacting	the Water	rcourse.	
If a Waterco	urse was In	pacted, Descr	ibe Fully.	*		RECEIVED				
						By Olivia Yu at 1:48 pm, Aug 07, 2018				
Describe Are	ea Affected	and Cleanup	Action Ta				anna dua			
I hereby cert regulations a	ify that the	information g	iven abov o report a	nd/or file certain r	lete to the	ne best of my	knowledge and u	ctive action	ons for rel	suant to NMOCD rules and eases which may endanger ieve the operator of liability
or the enviro	nment. In		OCD acce				e the operator of	responsil	bility for c	r, surface water, human health ompliance with any other
-		0					OIL CON	SERV.	ATION	DIVISION
Signature: <	Jane	u Jone	0			GV4-				
Printed Name: Denise Jones					Approved by Environmental Specialist:					
Title: Regul	latory Analy	/st				Approval Da	8/7/2018	E	Expiration	Date:
E-mail Addr	ess: djones	@cambrianm	gmt.com			Conditions o	f Approval:			Attached 🖂
					1		spect liner in o	question	n. Provid	Attached
Data: 00/07/2010 Diama: 422 (20 0101					O T		th a concise re			
Attach Add	itional She	ets If Necess	sary				with affirmatio	•		4DD 5440
nOY1821				050272	a	nd will cor	ntinue to conta one photo mus	ain liqui	ds.	1RP-5149
eased to Imaging: 9/1/2023 3:25:35 PM				the entire facility is lined.						

Form C-141 Revised April 3, 2017

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

ion Division
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

						OPERA			Initia	l Report
						Contact Mr. Mike Anthony				
		, Midland, T	X 79702				No. 432-631-4	398		
Facility Name Kaiser State SWD						Facility Typ	e SWD			
Surface Ov	vner State			Mineral (Owner S	State		A	PI No	. 30-025-02538
				LOCA	ATIO	OF REI	LEASE			
Unit Letter F	Section 13	Township 21S	Range 34E	Feet from the 1980	North/ North	South Line	Feet from the 1980	East/West West	Line	County Lea
			Latit	ude 32.480938				NAD83		
Type of Rele	ease Produc	ed Water		NAT	TURE	Volume of	Release 500 Bb	ls Vo	lume R	ecovered 500 Bbls
Source of Re						Date and I	lour of Occurrence	ce Da	te and	Hour of Discovery
		21 2					8 10:00AM	08.	/17/201	8 11:00 AM
Was Immed	iate Notice (Yes 🗌	No Not Re	quired	If YES, To Olivia Yu	Whom? and other OCD n	nember on lo	cation	
	Mike Antho					Date and I	Hour 12:00 PM (08/17/2018		
Was a Water	rcourse Read		Yes X	No		If YES, Vo	olume Impacting	the Waterco	ırse.	
The release		and Cleanup			er was re	covered. The	e pit liner and tan	ks will be w	ashed a	fter all water has been picke
up.										
regulations a public health should their or the environ	all operators n or the envi operations h onment. In a	are required to ronment. The nave failed to	o report as acceptanadequately OCD accep	nd/or file certain ce of a C-141 rep investigate and	release n ort by the remediat	otifications a e NMOCD m e contaminati	nd perform corre- narked as "Final Rion that pose a the re the operator of	ctive actions Report" does reat to groun responsibilit	for relations for relations for relations for contractions for relations	uant to NMOCD rules and cases which may endanger eve the operator of liability s, surface water, human heal compliance with any other
\ \ \ \ \					OIL CONSERVATION DIVISION			DIVISION		
Signature: James Janes					- M					
Printed Name: Denise Jones					Approved by Environmental Specialist:					
Title: Regula	atory Analys	st				Approval Da	te: 8/21/201	8 Expi	ration	Date:
E-mail Addı	ess: djones@	E-mail Address: djones@cambrianmgmt.com					£ Ammaziali			Attached
Date: 08/17/2018 Phone:432-620-0191						Conditions	f Approval:			Attached
Date: 08	Date. 00/1//2010 Filolic,432-020-9101						liner in questic			Attached
		ets If Necess		hone:432-620-91	01	1) Inspect I NMOCD wi		eport of th	е	Attached []

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	
Application ID	pCH1834761047

Release Notification

Responsible Party

Responsible Party Permian Water Solutions, LLC					OGRID 373626		
Contact Name Dale Glosson				Contact	Contact Telephone 432-894-3636		
Contact ema	ail dale@p	permianws.com		Inciden	# NCH1834760902 KAISER STATE SWD		
Contact mai	ling address	PO Box 2106,	Midland, TX 79	702	@ 30-025-02538		
atitude 32.4	480938			on of Release Longitud	e103.425227		
Site Name k	Caiser State	SWD	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		e Salt Water Disposal		
Date Release	Market Control			India 72	applicable) 30-025-02538		
Date Release	Discovered	11/2/10		Al I# (y t	applicable) 30-025-02538		
Unit Letter	Section	Township	Range	Co	unty		
F	13	218	34E	Lea	1		
Malo	Materia		all that apply and atta	nd Volume of	fic justification for the volumes provided below)		
Crude Oi		Volume Releas			Volume Recovered (bbls) 16		
Produced	Water	Volume Releas	2014		Volume Recovered (bbls)		
		Is the concentrate produced water	tion of dissolved >10.000 mg/l?	chloride in the	in the Yes No		
Condensa	te	Volume Releas			Volume Recovered (bbls)		
☐ Natural Gas Volume Released (Mcf)			ed (Mcf)		Volume Recovered (Mcf)		
Other (describe) Volume/Weight Released (provide unit			t Released (provi	de units)	Volume/Weight Recovered (provide units)		
Cause of Rele	ease Oil ski	m tank overflow	; all fluids conta	ined within conta	inment berm		

Received by OCD: 8/29/2023 3:51:49 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: 8/2	29/2023 3:51:49 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 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?				
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: 8/29/2023 3:51:49 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 150 of 1449)
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:				
email:	Telephone:			
o cho i				
OCD Only				
Received by:	Date:			

Received by OCD: 8/29/2023 3:51:49 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 be	oe 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) 				
<u>Deferral Requests Only</u> : Each of the following items must be co	nfirmed as part of any request for deferral of remediation.			
Contamination must be in areas immediately under or around p deconstruction.	roduction equipment where remediation could cause a major facility			
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 Denied Deferral Approved			
Signature:	<u>Date:</u>			

Appendix B

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

	20 Sc	outh	34	East			20 Sc	outh	3	35 East	
6	5	4 125	3	2	1	6 56	5 64	4	3	2	1
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					270						
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31	32	33	34 82	35	36	31 65	32	33	34	35	36
								89			
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6	21 S c	outh 4	33	East 2 79	1	6	21 S d	outh 4 95	3	34 East	1
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6 7				2 79		6 7					_
7	5	4	3	2 79 1 07			5	4 95	3	2	1
7	5 8	9	3	2 79 107 11 150	12	7	5 8 120	4 95	10	11	12
	5 8	9	3	2 79 107 11 150	12	7	5 8 120	4 95 9 16	10	11	1 12 13

	20 S	outh	;	36 East	
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7	8	9	10	11	12
	33	38		32	29
18	17	16	15	14	13
34				45	
19	20	21	22	23	24
30	29	28	27	26 1 <mark>06</mark>	25
				170	
31	32	33	34	35	36
	170			122	

35 East

21 South

	22 5	South	;	33 Eas	t
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 Eas	t
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)
- Geology and Groundwater Resources of Eddy County, NM (Report 3)
- 34 NMOCD Groundwater Data
- Abandoned Waterwell (recently measured)



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)

(In feet)

	POI Sub	,_	Q	-						_	_	Water
POD Number CP 00089	Code basi					21S		X 647840	Y 3594615	Well 235	Water	Column
	-							047040				
CP 00092 POD1	СР	LE	1 3	1	25	21S	34E	647479	3591694*	196		
CP 00489	СР	LE			04	21S	34E	643274	3597749* 🌑	125	95	30
CP 00498	СР	LE	2	4	80	21S	34E	642287	3595932* 🌕	145	120	25
CP 00571 POD1	СР	LE	3 1	4	28	21S	34E	643499	3591063 🌑	170	135	35
CP 00583	СР	LE		3	21	21S	34E	642944	3592518* 🌑	171	128	43
CP 00588 POD1	СР	LE	3	2	33	21S	34E	643583	3589918* 🌑	89		
CP 00589 POD1	СР	LE	3	2	33	21S	34E	643583	3589918* 🌑	84		
CP 00590 POD1	СР	LE			01	21S	34E	648099	3597829* 🌑	79		
CP 00611	СР	LE	2	1	06	21S	34E	639838	3598306* 🌑	118	112	6
CP 00791	СР	LE	4 2	4	06	21S	34E	640754	3597413* 🌍	85	55	30
CP 01066 POD1	СР	LE	4 3	2	28	21S	34E	643735	3591345 🌍	210	140	70
CP 01067 POD1	СР	LE	1 3	4	28	21S	34E	643447	3591434 🌑	210	140	70
CP 01068 POD1	СР	LE	4 1	4	28	21S	34E	643609	3591005 🌍	180	140	40
CP 01069 POD1	СР	LE	2 1	4	28	21S	34E	643737	3591191 🌍	210	140	70
CP 01091 POD1	СР	LE	3 3	2	28	21S	34E	643446	3591434 🎒	200	140	60
CP 01364 POD1	СР	LE	4 2	3	16	21S	34E	643147	3594331 🌑	165	105	60
CP 01366 POD1	СР	LE	4 4	1	16	21S	34E	643196	3594698 🌑	180	110	70
CP 01671 POD1	СР	LE	2 4	1	16	21S	34E	643108	3594887 🌑	157		

Average Depth to Water: 120 feet

Minimum Depth: 55 feet

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

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

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

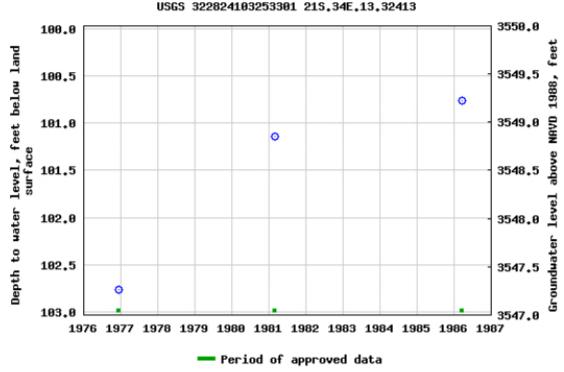
Save file of selected sites to local disk for future upload

USGS 322824103253301 21S.34E.13.32413

Available data for this site	Groundwater:	Field measurements	~	GO	
Lea County, New Mexico					
Hydrologic Unit Code 13070)007				
Latitude 32°28'24", Longit	ude 103°25	5'33" NAD27			
Land-surface elevation 3,65	50 feet abo	ve NAVD88			
The depth of the well is 335	feet belov	v land surface.			
This well is completed in th	e Chinle Fo	rmation (231CH	NL) Ic	ocal aquife	r.

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.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for New Mexico: Water Levels URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

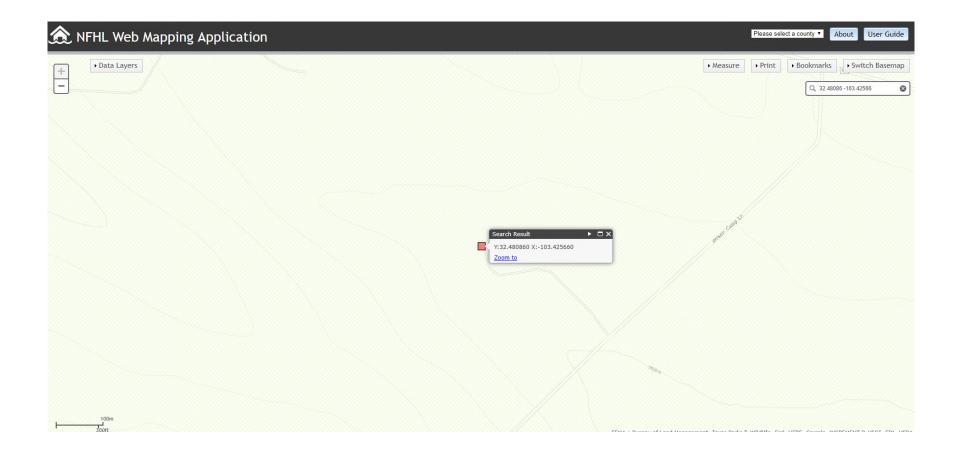
Page Contact Information: New Mexico Water Data Maintainer

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	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			
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

Client:	Permian Water Solutions				
Site Name	Kaiser SWD				
Sample ID:	SP-6				
GPS	32.480748° -103.425638°	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			
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
R	1	1		

Client:	Permian Water Solutions				
Site Name	Kaiser SWD	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	

Client:	Permian Water Solutions				
Site Name	Kaiser SWD	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	
-		•			

Olimata	In . w o:			
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

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	

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

	In 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1
Client:	Permian Water Solutions			
Site Name	Kaiser SWD			
Sample ID:	SP-15			
GPS	32.480365° -103.425729°			
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	No Stain or odor	1,050	-
2-3	Dark brown sand	No Stain or odor	945	680
4-5	Dark brown sand	No Stain or odor	970	400
6-7	Light tan sand and caliche	No Stain or odor	1,030	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	
	•	-	•		

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				
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:				
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					
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 #:				
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					
2-3Dark sand and calicheHeavy odor1,270-4-4.5Dark sand and calicheModerate odor1,3001200	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°	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										
	1000000										
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										
	15-5										
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						
<u> </u>	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						



Soil Drilling Log with Field Testing Results

Project Name: Kaiser St SWD

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

Location: Lea Co, NM

Coordinates: 32.481227 -103.425306

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)
∘┰┌		Black/brown sand			50				
		Black/brown sand							
		Red sand and silt							
5		Red sand and silt			55				
10		Fine dry brown sand Dense layer of caliche			60				
10		Caliche with pebbels			65 —				
		Tan Sand with caliche Dense layer of caliche	840		70				
25 —		White fine caliche	700		75				
30		Brown sand Fine red sand	500		#		Comments: T.D 30'		
30		Red Sand	480						
50					ŧ				

^{*} 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: 32.480967 -103.425290

Elevation :

Date: Monday, October 21, 2019

Sampler : Conner Moehring

Driller: Scarborough Drilling

Depth (ft.)	/L Soil Description	Chloride Field Test (ppm)	PID	Depth (ft.) W	VL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
	Black and brown sand / gravel Black gravel			50 🛨				
5	tan and black gravel and sand			55				
10	Dense layer of caliche			60				
10	tan caliche Caliche layer	1,200		65				
20	Red brown sand			70				
#1	Dense layer of calchie			#1				
+ 1	Red brown sand	1,800		75				
30	Red brown sand	1,800		#	C	Comments: T.D 50'		
35	Red brown sand	1,000		#				
40 -	Red brown sand	800		#				
45	Red brown sand	480		#				
₅₀ <u>±</u> L	Red brown sand	400		土乚				

^{*} 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 -103.425281

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.) W	L	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
° I	Black brown sand with gravel			50 📘				
10	Black brown sand with gravel			55				
10	tan sand with calcihe			60				
土	Dense layer of caliche			<u>+</u>				
15	Caliche with tan sand			65				
20	Tan caliche with sand	>2000		70				
25	Red dry sand			75				
30	Red dry sand Dense layer of caliche	242		#	Comme	ents: T.D 40'		
35	Red fine sand	142		#				
40	Red fine sand	313						
45				#				

^{*} H.O. = Heavy Odor

^{*} L.O. = Low Odor

^{*} H.S. = Heavy Staining

^{*} L.S. = Low Staining

Project Name: Kaiser St SWD

Project No.: 212C-MD-01742

Location : Lea Co, NM **Coordinates :** 32.480704 -103.425094

Elevation :

Borehole ID: BH-20

TETRA TECH

BH-20 Field Testing Results

Date: Tuesday, October 22, 2019

Sampler : Conner Moehring

Driller: Scarborough Drilling

Depth (ft.) W	L Soil Description	Chloride Field Test	PID	Depth (ft.)	\\/I	Soil Description	Chloride Field Test	Field Titration Test
Depart (it.)	Son Description	(ppm)	ו וט	Deptii (it.)	VVL	Juli Description	(ppm)	(ppm)
· _ _	Black gravel and sand			50 🕇				
干!	Black gravel with sand			#				
#1				- ‡				
5 —	grey gravel and tan sand			55				
#1	Tan sand and gravel			#				
10				60				
<u>+</u>	Fine dry tan sand			<u> </u>				
Ŧ	Dense layer of clay			Ŧ				
15	Tan sand and gravel			65				
丰				#				
丰				- ‡				
20 —	Tan sand and gravel	940		70				
#1				+				
25 —				75				
-	Red fine sand Dense layer of caliche	240		$^{"}$ \mp				
干!				- 干				
30	Red sand fine	200		#		Comments: T.D 30'		
#1		200		#				
#1				#				
35 ——				#				
<u></u> ±1				土				
40				<u></u>				
40				#				
#1				#				
45								
±				<u></u>				
士丨								
50				工				

^{*} 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: 32.4800551 -1 03.425712

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)
20	Black brown gravel Tan black gravel and sand Tan sand dry brown tan sand Brown tan sand Tan caliche with gravel Tan caliche with gravel	242		50				
30	Red sand	376				Comments: T.D 30'		

^{*} H.O. = Heavy Odor

or * 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 * L.S. = Low Staining

^{*} 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)
°┰┌	Black and brown sand			⁵⁰ T				
士!	Black and brown sand			土				
<u>.</u> +				55				
³Ŧ	Black sand and gravel			33 T				
#1	Tan sand			#1				
10	Tan sand			60				
10	Tan sand with calcihe			65				
20	Tan sand with caliche	800		70				
	Soft caliche	800		#				
25	Soft cancile			#1				
25	Red sand	699		75				
#1				#1				
30				#1				
#1	Red sand	500		士		Comments: T.D 35'		
#1				士				
35	Red sand	480		土				
				土				
<u> </u>				王				
40				Ŧ				
#1				#				
40 45 50				#				
#				#				
#1				#				
50	1							

^{*} 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

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

Elevation :

Date: Tuesday, October 22, 2019

Sampler: Conner Moehring

Driller: Scarborough Drilling

^{*} 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 Date:

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

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

TETRA TECH

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

Project Name: Kaiser St SWD

Project No. : 212C-MD-01742

Location: Lea Co, NM

Coordinates: 32.481099 -103.425226

Elevation :

Date: Monday, October 21, 2019

Sampler : Conner Moehring

Driller: Scarborough Drilling

Depth (ft.) Wi	Soil Description	Chloride Field Test (ppm)	PID	Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
。工厂	Black and brown gravel and sand			50 🛨				
#1	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			#				
45	Very dense kayer of calcihe Very dense kayer of calciche			‡ ‡				
50	Red Sand			圭				

^{*} 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: 32.481235 -103.425211

Elevation :

Date: Monday, October 21, 2019

Sampler : Conner Moehring

Driller: Scarborough Drilling

Depth (ft.) WI	. Soil Description	Chloride Field Test (ppm)	PID	Depth (ft.) WI	′L	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
0 🕇	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				
10	Fine tan sand	600		70				
25 —				75				
30				#	C	omments: T.D 20'		
35				#				
40				#				
45				#				
50				#				

^{*} 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:

____ 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.
- 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 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
 - 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:

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 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
 - 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.
- 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 #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
 - 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:

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, 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 S'.
- 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:

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 #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
 - 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

- - -

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 S'.
- 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 #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:

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*
 - 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 #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
 - 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 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 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 #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)

	,	, 1 <u>8 </u>	
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
 - 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 #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)

		<u>, 1 6 3/</u>	
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

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
 - 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

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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 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.**
- ****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
 - 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

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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.**
- ****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:

Sit

Site outline

- - -

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'.
- 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
 - 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

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.
- 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 #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

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 #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
 - 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:

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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 #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
T 'TT 1			
Jenni Usher	512/820-8772	jenni@permianws.com	Permian Water Solutions
Clair Gonzales	512/820-8772 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 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
 - 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:

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 #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:

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 #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

- - -

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 #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

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, 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 #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:

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 #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)

(- ·······)			
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.
 - 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:

- 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.
 - All areas not noted in key, excevate to 6'.
 - b) Final samples to the following closure or terrar
 - 1,000 mg/kg TPH
 - 7,000 mg/kg ti
 - STEXNO
- 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 **
- ***Plan may change subject to sample data from soil 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.
 - 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 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 #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)

505/827-5849	fcrosby@slo.state.nm.us	NM State Land Office
575/392-8736	rmann@slo.state.nm.us	NM State Land Office
505/419-2687	cory.smith@state.nm.us	NM Oil Conservation Division
432/687-8123	Clair.gonzales@tetratech.com	Tetra Tech
617/584-2889	dmcinturff@dufrane.com	Dufrane Construction
	575/392-8736 505/419-2687 432/687-8123	575/392-8736 rmann@slo.state.nm.us 505/419-2687 cory.smith@state.nm.us 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:

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:

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, 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 #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>	
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. 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:

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 #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

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





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 #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.
 - 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



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 #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.
 - 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.

- - 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

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.

- - 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 #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

*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

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.

- - 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.
- 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.**
- ****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.
 - 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

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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.

- - 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:

SI

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 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.

- - 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)

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 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.
 - 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.
- 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.**
- ****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.
 - 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*
 - 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.**
- ****plan may change subject to sample data from spill and water testing ***



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.

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. 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:

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 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 #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:

SI

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.**
- ****Flan 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.
 - 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

 \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 #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:

Sit

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, 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 #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.;
 - 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

- - - F

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 #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:

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 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.

- - 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.
 - 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.
- 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.**
- ****plan may change subject to sample data from spill and water testing ***



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.
 - 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

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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.

- - 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.
 - 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



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.

- - 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, 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.

- - 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:

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.

- - 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.

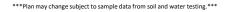
Map Key:

Si

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, 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.

- - 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
 - 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*
 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 8 37	
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.
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 - 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



***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.
- 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

KRAMER

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

Total Access

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 9/1/2023 3:25:35 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.

1

2

3

4

5

0

9

10

12

Client: Tetra Tech, Inc.

Project/Site: PWS-Kaiser

Laboratory Job ID: 880-5572-1

SDG: New Mexico

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Certification Summary	14
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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** S1+

Surrogate recovery exceeds control limits, high biased. 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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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 Fac
Benzene	<0.00200	U	0.00200		mg/L		<u> </u>	09/01/21 22:06	
Toluene	<0.00200	U	0.00200		mg/L			09/01/21 22:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/L			09/01/21 22:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			09/01/21 22:06	1
o-Xylene	<0.00200	U	0.00200		mg/L			09/01/21 22:06	1
Xylenes, Total	<0.00400	U	0.00400		mg/L			09/01/21 22:06	1
Total BTEX	<0.00400	U	0.00400		mg/L			09/01/21 22:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130					09/01/21 22:06	-
1,4-Difluorobenzene (Surr)	106		70 - 130					09/01/21 22:06	
Method: 8015B NM - Diesel R Analyte	_	ics (DRO) Qualifier	(GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<4.66	U	4.66		mg/L		09/03/21 16:21	09/04/21 23:09	
Diesel Range Organics (Over C10-C28)	<4.66	U	4.66		mg/L		09/03/21 16:21	09/04/21 23:09	•
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	phy							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	3570		25.0		mg/L			08/31/21 16:14	50
General Chemistry									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total Dissolved Solids	9590	H	500		mg/L			09/10/21 15:13	

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

		Percent Surrogate Recovery (Acceptance Limits)					
		BFB1	DFBZ1				
Lab Sample ID	Client Sample ID	(70-130)	(70-130)				
880-5572-1	MW-1	131 S1+	106				
880-5572-1 MS	MW-1	113	121				
880-5572-1 MSD	MW-1	119	121				
LCS 880-7266/61	Lab Control Sample	108	115				
LCSD 880-7266/62	Lab Control Sample Dup	123	129				
MB 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

		1001	OTPH1	
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

OTPH = o-Terphenyl

Eurofins Xenco, Midland

Client: Tetra Tech, Inc. Job ID: 880-5572-1 Project/Site: PWS-Kaiser SDG: New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

<0.00400 U

Lab Sample ID: MB 880-7266/66

Matrix: Water

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

Total BTEX

m-Xylene & p-Xylene

Analysis Batch: 7266

Client Sa	mple ID: Method Blank	
	Prep Type: Total/NA	

09/01/21 21:40

MB MB Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac <0.00200 U 0.00200 mg/L 09/01/21 21:40 <0.00200 U 0.00200 mg/L 09/01/21 21:40 <0.00200 U 0.00200 mg/L 09/01/21 21:40 <0.00400 U 0.00400 09/01/21 21:40 mg/L <0.00200 U 0.00200 mg/L 09/01/21 21:40 <0.00400 U 0.00400 mg/L 09/01/21 21:40

mg/L

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)

0.00400

Lab Sample ID: LCS 880-7266/61 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 7266

Spike	CS LCS			%Rec.
dded Re	sult Qualifier	Unit D	%Rec	Limits
0.09	753	mg/L	98	70 - 130
0.09	995	mg/L	100	70 - 130
0.100 0.1	071	mg/L	107	70 - 130
0.200 0.2	108	mg/L	105	70 - 130
0.100 0.1	044	mg/L	104	70 - 130
֡	ddded Re 0.100 0.09 0.100 0.09 0.100 0.10 0.200 0.20	Added dded Result 0.100 Qualifier 0.100 0.09753 0.100 0.09995 0.100 0.1071 0.200 0.2108	Added dded 0.100 Result 0.100 Qualifier mg/L Unit mg/L D 0.100 0.0995 mg/L mg/L 0.100 0.1071 mg/L 0.200 0.2108 mg/L	dded dded 0.100 Result 0.100 Qualifier mg/L mg/L mg/L D mg/L mg/L 98 mg/L 0.100 0.09995 mg/L mg/L 100 mg/L 0.100 0.1071 mg/L 107 mg/L 0.200 0.2108 mg/L 105

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 108 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 115

Lab Sample ID: LCSD 880-7266/62

M

ab Sample ID: LCSD 880-7266/62			Client Sample ID: Lab Co	ntrol Sample	Dup
Matrix: Water			Pr	rep Type: Tota	al/NA
Analysis Batch: 7266					
	Spike	LCSD LCSD	%F	Rec.	RPD

	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	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	129		70 - 130

Lab Sample ID: 880-5572-1 MS

Matrix: Water

Analysis Batch: 7266

Eurofins Xenco, Midland

Client Sample ID: MW-1

Prep Type: Total/NA

9/13/2021 (Rev. 1)

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

Analysis Batch: 7266

Client Sample ID: MW-1 Prep Type: Total/NA

-	Sample	Sample	Spike	MS	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

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	121		70 - 130

Lab Sample ID: 880-5572-1 MSD

Matrix: Water

Analysis Batch: 7266

Client Sample ID: MW-1

Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.1118		mg/L		112	70 - 130	1	25
Toluene	<0.00200	U	0.100	0.1097		mg/L		109	70 - 130	2	25
Ethylbenzene	<0.00200	U	0.100	0.1121		mg/L		112	70 - 130	2	25
m-Xylene & p-Xylene	<0.00400	U	0.200	0.2246		mg/L		112	70 - 130	2	25
o-Xylene	<0.00200	U	0.100	0.1104		mg/L		110	70 - 130	1	25

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	119	70 - 130
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	MR							
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

Surrogate	%Recovery	Qualifier Li	imits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75	70	0 - 130	08/31/21 08:38	09/01/21 00:42	1
1,4-Difluorobenzene (Surr)	102	70	0 - 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

Prep Type: Total/NA

Prep Batch: 7525

l		MB	MB							
l	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Gasoline Range Organics (GRO)-C6-C10	<4.69	U	4.69		mg/L		09/03/21 16:21	09/04/21 21:03	1
	Diesel Range Organics (Over C10-C28)	<4.69	U	4.69		mg/L		09/03/21 16:21	09/04/21 21:03	1
l	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

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep 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 (GRO)-C6-C10 Diesel Range Organics (Over 93.8 103.9 mg/L 111 75 - 125

C10-C28)

LCS LCS

Surrogate	%Recovery Qualit	ier Limits
1-Chlorooctane	127	70 - 130
o-Terphenyl	126	70 - 130

Lab Sample ID: LCSD 880-7525/3-A

Matrix: Water

Analysis Batch: 7537

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 7525

LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 93.8 92.23 98 75 - 125 20 mg/L (GRO)-C6-C10 Diesel Range Organics (Over 93.8 104.2 mg/L 111 75 - 125 20 C10-C28)

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	112	70 - 130
o-Terphenyl	109	70 - 130

Lab Sample ID: 890-1210-J-1-A MS

Matrix: Water

Analysis Batch: 7537

Client Sample ID: Matrix Spike

Prep Type: Total/NA 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	<4.53	U	91.5	89.74		mg/L		98	75 - 125

Eurofins Xenco, Midland

9/13/2021 (Rev. 1)

Prep Batch: 7525

Client: Tetra Tech, Inc. Job ID: 880-5572-1 Project/Site: PWS-Kaiser SDG: New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

MR MR

Lab Sample ID: 890-1210-J-1-A MS Client Sample ID: Matrix Spike **Prep Type: Total/NA**

Matrix: Water Analysis Batch: 7537

MS MS %Recovery Qualifier Surrogate Limits 1-Chlorooctane 99 70 - 130

102

Client Sample ID: Matrix Spike Duplicate Lab Sample ID: 890-1210-J-1-B MSD Prep Type: Total/NA

70 - 130

Matrix: Water

o-Terphenyl

Analysis Batch: 7537									Prep	Batch:	7525
	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	<4.53	U	91.5	85.40		mg/L		93	75 - 125	11	20
Diesel Range Organics (Over C10-C28)	<4.53	U	91.5	99.28		mg/L		109	75 - 125	10	20

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 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 7318

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.500	U	0.500		mg/L			08/31/21 15:24	1

Lab Sample ID: LCS 880-7318/4 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 7318

		Spike	LCS	LCS				%Rec.	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride		25.0	26.14		mg/L		105	90 - 110	

Lab Sample ID: LCSD 880-7318/5 **Client Sample ID: Lab Control Sample Dup Matrix: Water** Prep Type: Total/NA

Analysis Batch: 7318

Spike LCSD LCSD %Rec. Added Result Qualifier D %Rec Analyte Unit 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** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 7318

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7 maryolo Batom 7010	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	9.96		25.0	34.47		mg/L		98	90 - 110	

Eurofins Xenco, Midland

RPD

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

%Rec.

Matrix: Water

Analysis Batch: 7318

•	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

	MB	MB							
Analyte	Result	Qualifier	RL	MDL U	Jnit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<25.0	U	25.0	m	na/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**

LCS LCS

Analyte Added Result Qualifier Unit Limits D %Rec Total Dissolved Solids 1000 990.0 mg/L 99 80 - 120

Spike

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	A	Added	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 **Client Sample ID: MW-1** Prep Type: Total/NA

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

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

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.

Project/Site: PWS-Kaiser

Job ID: 880-5572-1

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.

Project/Site: PWS-Kaiser

Job ID: 880-5572-1

SDG: New Mexico

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority		ogram	Identification Number	Expiration Date
Texas	NELAP		T104704400-20-21	06-30-22
The following analyte the agency does not	•	ort, but the laboratory is i	not certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
8015B NM	8015NM Ag Prep	Water	Total TPH	
0010011111				

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Method Summary

Client: Tetra Tech, Inc. Project/Site: PWS-Kaiser Job ID: 880-5572-1 SDG: New Mexico

2

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 Ag Prep	Microextraction	SW846	XFN 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

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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

Revised Date: 08/25/2020 Rev 2020.2

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 <6mm (1/4").	True	

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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: 890-1501-1

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

MEAMER

Authorized for release by: 11/8/2021 11:57:43 AM

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.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-1501-1 SDG: Lea County NM

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Definitions/Glossary

Client: Tetra Tech, Inc.

Job ID: 890-1501-1

Project/Site: Kaiser SWD

SDG: Lea County NM

2

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

J Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
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

LOQ

MCL

Cioosaiy	
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)

MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MDN	Most Drobable Number

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)
שוו	INOU Detected at the reporting little (or MDL or LDL if Showin)

Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level"

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 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	•								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/03/21 08:46	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		11/01/21 14:48	11/02/21 22:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/01/21 14:48	11/02/21 22:52	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/01/21 14:48	11/02/21 22:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				11/01/21 14:48	11/02/21 22:52	1
o-Terphenyl	109		70 - 130				11/01/21 14:48	11/02/21 22:52	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Method: 300.0 - Anions, Ion Chro Analyte		Soluble Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac

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

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1501-2

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Matrix: Solid

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

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	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/03/21 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	1290		250		mg/Kg			11/03/21 08:46	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	<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
Faculty of coops, Automorphism					

Method: 300.0 - Anions, Ion Chromatography - SolubleAnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FacChloride7010100mg/Kg11/07/21 02:3920

Client Sample ID: DS-3 (2)
Date Collected: 10/25/21 00:00
Date Received: 10/29/21 12:45

Sample Depth: 2

Total TPH

00199 U 00199 U 00199 U 00398 U 00199 U	U U	0.00199 0.00199 0.00199 0.00398 0.00199		mg/Kg mg/Kg mg/Kg mg/Kg		11/01/21 10:32 11/01/21 10:32 11/01/21 10:32 11/01/21 10:32	11/01/21 23:03 11/01/21 23:03 11/01/21 23:03	1 1
00199 L 00398 L 00199 L	U U	0.00199 0.00398		mg/Kg		11/01/21 10:32	11/01/21 23:03	1
00398 U	U	0.00398						1
00199 ເ				mg/Kg		11/01/21 10:32	44/04/04 00 00	
	U	0.00199				11/01/21 10:02	11/01/21 23:03	1
ว0398 เ				mg/Kg		11/01/21 10:32	11/01/21 23:03	1
	U	0.00398		mg/Kg		11/01/21 10:32	11/01/21 23:03	1
overy (Qualifier	Limits				Prepared	Analyzed	Dil Fac
103		70 - 130				11/01/21 10:32	11/01/21 23:03	1
75		70 - 130				11/01/21 10:32	11/01/21 23:03	1
ion								
Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
00398	U	0.00398		mg/Kg			11/03/21 12:38	1
	103 75 on tesult	75	103 70 - 130 75 70 - 130 000 Result Qualifier RL 00398	103 70 - 130 75 70 - 130 On Result Qualifier RL MDL 10398 U 0.00398	103 70 - 130 75 70 - 130 On Result Qualifier RL MDL Unit mg/Kg	103	103	103 70 - 130 11/01/21 10:32 11/01/21 23:03 11/01/21 10:32 11/01/21 23:03 11/01/21 10:32 11/01/21 23:03 11/01/21 23:03 11/01/21 10:32 11/01/21 23:03 11/01/21 23:03 11/01/21 10:32 11/01/21 23:03 11/01/21 10:32 11/01/21 23:03 11/01/21 10:32 11/01/21 23:03 11/01/21 10:32 11/01/21

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11/03/21 08:46

Lab Sample ID: 890-1501-3

Matrix: Solid

250

mg/Kg

1980

2

3

5

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Matrix: Solid

Lab Sample ID: 890-1501-3

Analyzed

11/07/21 02:47

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

Analyte

Chloride

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
Oll 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

RL

49.5

MDL Unit

mg/Kg

D

Prepared

Result Qualifier

7820

5

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Dil Fac

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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

		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

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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)

Lab Sample ID: MB 880-11059/5-A

Matrix: Solid Analysis Batch: 11027 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11059

	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

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	63	S1-	70 - 130	11/01/21 10:3	2 11/01/21 13:19	1
1,4-Difluorobenzene (Surr)	133	S1+	70 - 130	11/01/21 10:3	2 11/01/21 13:19	1

Lab Sample ID: LCS 880-11059/1-A

Matrix: Solid

Analysis Batch: 11027

Client Sample ID: Lab Control Sample

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	

LCS LCS

Surrogate	%Recovery Qu	ıalifier	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	Client Sam	ple ID: Lab	Control	Sample Dup
--	------------	-------------	---------	------------

Prep Type: Total/NA

Prep Batch: 11059

RPD LCSD LCSD Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits 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 0.200 m-Xylene & p-Xylene 0.1623 mg/Kg 81 70 - 130 12 35 0.100 0.08108 70 - 130 o-Xylene mg/Kg 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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QC Sample Results

Job ID: 890-1501-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-7749-A-1-C MS

Matrix: Solid Analysis Batch: 11027

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00202 U F2 F1 0.101 0.06604 F1 66 70 - 130 mg/Kg 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 68 70 - 130 mg/Kg

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

Analysis Batch: 11027

Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA

Prep Batch: 11059

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 11059

Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier RPD Limit Analyte babbA Result Qualifier Unit %Rec Limits 0.0996 Benzene <0.00202 U F2 F1 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 37 70 - 130 57 35 mg/Kg 0.199 70 - 130 m-Xylene & p-Xylene <0.00403 U F2 F1 0.07219 F2 F1 mq/Kq 36 58 35 0.0996 <0.00202 U F2 F1 0.04080 F2 F1 41 70 - 130 51 o-Xylene mg/Kg

MSD MSD

Surrogate	%Recovery Qualifie	r 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

Matrix: Solid

Analysis Batch: 11193

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 11158

	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	Pre	pared	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

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep 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)								

Client: Tetra Tech, Inc.

Job ID: 890-1501-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-11158/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 11193

Prep Type: Total/NA
Prep Batch: 11158

Prep Batch: 1115

 Surrogate
 %Recovery
 Qualifier
 Limits

 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

Analysis Batch: 11193

Prep Type: Total/NA
Prep Batch: 11158

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

C10-C28)

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 90
 70 - 130

 o-Terphenyl
 95
 70 - 130

Lab Sample ID: 890-1495-A-1-H MS

Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 11193

Prep Type: Total/NA
Prep Batch: 11158

Sample Sample MS MS Spike Analyte Added 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)

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 99
 70 - 130

 o-Terphenyl
 99
 70 - 130

Lab Sample ID: 890-1495-A-1-I MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 11193

Prep Type: Total/NA

Prep Batch: 11158

Sample Sample MSD MSD RPD Spike %Rec. Result Qualifier Analyte 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	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	115		70 - 130

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Client Sample ID: Method Blank

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

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

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

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	<u> </u>
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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QC Association Summary

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1501-1

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	

HPLC/IC

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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Date Received: 10/29/21 12:45

Job ID: 890-1501-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: DS-1 (2) Date Collected: 10/25/21 00:00

Lab Sample ID: 890-1501-1

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 5.05 g Total/NA Prep 5 mL 11059 11/01/21 10:32 MR XEN MID 8021B Total/NA Analysis 1 5 mL 5 mL 11027 11/01/21 22:08 MR XEN MID Total/NA Analysis Total BTEX 11149 11/03/21 12:38 ΑJ XEN MID Total/NA 8015 NM XEN MID Analysis 1 11344 11/03/21 08:46 AJ Total/NA 8015NM Prep 11158 11/01/21 14:48 XEN MID Prep 10.02 g 10 mL DM Total/NA Analysis 8015B NM 11193 11/02/21 22:52 AJ XEN MID Soluble DI Leach 5.02 g 50 mL 11233 11/02/21 12:00 СН XEN MID Leach Soluble Analysis 300.0 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	Туре	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**

	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:

Date Received: 10/29/21 12:45

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

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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	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-21-22	06-30-22
The following analytes	are included in this report, but	it the laboratory is not certifi	ed by the governing authority. This list ma	y include analytes for w
the agency does not of	fer certification.	,	, g,	ly molade analytes for th
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte	y moduce analytee for the
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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
3015NM Prep	Microextraction	SW846	XEN MID
OI 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: 890-1501-1

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

	Relinquished by:	Relinquished by:	Relinquished by						(LABUSE)	LAB#		Comments:	Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:	7	Analysis Requ
	Date: Time:	10/29/21 12:45	Date: Time:			DS-3 (2')	DS-2 (3')	DS-1 (2')		SAMPLE IDENTIFICATION			y: Eurofins Xenco	Dusty McInturff - Permian Water Solutions	Lea County, New Mexico	Kaiser SWD	Permian Water Solutions	Tetra Tech, Inc.	Analysis Request of Chain of Custody Record
ORIGINAL COPY	Received by:	Received by:	Received by:			10/25/2021	10/25/2021	10/25/2021	DATE	YEAR: 2020	SAMPLING		Sampler Signature:		Project #:		Site Manager:	•	
PΥ	Date: Time:	Date: Time:	Date: Time:			×	×	×	WATER SOIL HCL HNO ₃ ICE None	1	MATRIX PRESERVATIVE		Ezequiel Moreno		212C-MD-02230		Clair Gonzales	9) TW Wall Street, Ste 100 Midland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946	
(Circle) HAND DELIVERED	5.5	MLY mperature	LAB USE REM			×	×	×	# CONT. FILTERE BTEX 80 TPH TX TPH 80 PAH 82 Total Me TCLP Me TCLP VC	DO (YOUR DO IN TO IN T	ERS (/N) BTE (Ext to GRO Ag As E	DRO - (la Cd Cr Ba Cd C	ORO - Pb Se	Hg			ANALYSIS REQUEST	890-1501 Chain of Custody	
FEDEX UPS Tracking #:	Rush Charges Authorized Special Report Limits or TRRP Report	X STANDARD RUSH: Same Day 24 hr 48 hr 7/	χL.			×	×	×	RCI GC/MS \ GC/MS \ PCB's 8 NORM PLM (As Chloride Chloride General Anion/C	/ol. 8 Semi. 082 / besto	Vol. 8 Vol. 8 V608 vs)	7624 270C/62 TDS mistry (s		ached I	ist)		ST Specify Method No.)		Page 1
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Eurofins Xenco, Carlsbad

🐝 eurofins

	Relinquished by Date/Time	Relinquished by Date/Time	Relinquished by Date/Time	Empty Kit Relinquished by	Deliverable Requested	Possible Hazard Identification Unconfirmed	Noter 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.						DS-3 (2) (890-1501-3) 10/2	DS-2 (3) (890-1501-2)	DS-1 (2) (890-1501-1) 10/2		Sample Identification - Client ID (Lab ID)	SITE: SSOW#	Project Hame Project # Raiser SWD 88000039		»: 704-5440(TeI)	State Zip TX 79701	and	1211 W Florida Ave 11/4/2021	ns Xenco	Shipping/Receiving	ormation (Sub Contract Lab)	1089 N Canal St Carlsbad NM 88220 Phone. 575-988-3199 Fax 575-988-3199
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	Company	Company	Company		moral of the second	1 month)	yry does not currently ight to Eurofins Xenco LLC		100000		THE PARTY OF THE P						Special Instructions/Note		W pH 4-5 Z other (specify)		R Na2S2O3 S H2SO4 T TSP Dodecahydrate	P Na2O4S Q Na2SO3						Environment Testing America

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-1501-1

SDG Number: Lea County NM

Login Number: 1501 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	

Eurofins Xenco, Carlsbad

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Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Containers requiring zero headspace have no headspace or bubble is

Job Number: 890-1501-1 SDG Number: Lea County NM

List Source: Eurofins Xenco, Midland

List Creation: 11/01/21 08:46 AM

Login Number: 1501 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	
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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	

N/A

<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: 890-1770-1

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

SCRAMER

Authorized for release by: 1/4/2022 2:38:20 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

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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.
Project/Site: Kaiser SWD

Laborato
SDG: Le

Laboratory Job ID: 890-1770-1 SDG: Lea County New Mexico

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Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 890-1770-1 Project/Site: Kaiser SWD SDG: Lea County New Mexico

Qualifiers

GC	VOA
Qua	lifier

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.
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

EDL

LOD

LOQ

MCL

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)

Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry) MDL

Method Detection Limit Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

Estimated Detection Limit (Dioxin)

Limit of Detection (DoD/DOE)

Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level"

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: 890-1770-1

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 Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/29/21 14:29	12/30/21 20:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/29/21 14:29	12/30/21 20:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/29/21 14:29	12/30/21 20:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/29/21 14:29	12/30/21 20:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/29/21 14:29	12/30/21 20:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/29/21 14:29	12/30/21 20:30	1
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
1,4-Difluorobenzene (Surr)	79		70 - 130				12/29/21 14:29	12/30/21 20:30	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			01/04/22 15:22	1
Method: 8015 NM - Diesel Range									
_			DI	MDI	Unit	D	Dranavad	Analyzad	Dil Ess
_		Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/03/22 14:33	
Analyte	Result	Qualifier		MDL	Unit mg/Kg	<u>D</u>	Prepared		
Analyte Total TPH	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			01/03/22 14:33	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang	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
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 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
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 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
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 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	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 <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
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 <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
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 98 113 pomatography -	Qualifier U RO) (GC) Qualifier U F1 U F1 U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	MDL	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 1 Dil Fac 1 Dil Fac 1 Dil Fac 1 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

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Lab Sample ID: 890-1770-2

Matrix: Solid

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1770-1 SDG: Lea County New Mexico

Lab Sample ID: 890-1770-2

Matrix: Solid

Client Sample ID: SW-3 Date Collected: 12/23/21 00:00

Date Received: 12/28/21 10:30

Sample Depth: 0 - 4

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	

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			01/04/22 15:22	1

Mothod: 8015 NM	Diosal Range	Organice	(DRO) (GC)

Analyte	Result Qua	lifier 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 Org	ranics ('DROL	GC
motriou. ou rob	THE DIGGOL	itunge or	garnoo (D. (O)	(–

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

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

Method: 300.0 - Anions, Ion Chromatography - Soluble

	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
L	Chloride	341		4.95		mg/Kg		_	01/03/22 18:07	1

Client Sample ID: SW-6 Lab Sample ID: 890-1770-3 **Matrix: Solid**

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	<0.00199	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

Mothod:	Total RT	Y - Total I	RTEY Ca	lculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00398	U	0.00398		ma/Ka		•	01/04/22 15:22	1

Analyte	Result Qual	ifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			01/04/22 15:21	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1770-1 Project/Site: Kaiser SWD SDG: Lea County New Mexico

Cli

Da Date Received: 12/28/21 10:30

Sample Depth: 0 - 4

ilent Sample ID: SW-6	Lab Sample ID: 890-1770-3
ate Collected: 12/23/21 00:00	Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared <49.9 U 49.9 12/29/21 15:34 12/31/21 23:06 Gasoline Range Organics mg/Kg (GRO)-C6-C10 12/29/21 15:34 12/31/21 23:06 Diesel Range Organics (Over <49.9 U 49.9 mg/Kg C10-C28) mg/Kg Oll Range Organics (Over C28-C36) <49.9 U 49.9 12/29/21 15:34 12/31/21 23:06 %Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 1-Chlorooctane 70 - 130 12/29/21 15:34 12/31/21 23:06 90 o-Terphenyl 101 70 - 130 12/29/21 15:34 12/31/21 23:06 Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Dil Fac Analyzed Chloride 4800 49.8 mg/Kg 01/03/22 17:31

Client Sample ID: SW-7 Lab Sample ID: 890-1770-4 Matrix: Solid

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 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 BTE	X 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	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		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

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-1770-1

SDG: Lea County New Mexico

Client Sample ID: SW-7 Lab Sample ID: 890-1770-4

Date Collected: 12/23/21 00:00 Date Received: 12/28/21 10:30

Matrix: Solid

01/04/22 15:22

Sample Depth: 0 - 4

Method: 300.0 - Anions, Ion Chron	natography - 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 **Matrix: Solid**

Date Collected: 12/23/21 00:00

Date Received: 12/28/21 10:30

Sample Depth: 0 - 4

Total BTEX

(GRO)-C6-C10

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 BT	FX Calculation								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

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
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		ma/Ka		12/29/21 15:34	12/31/21 23:48	1

0.00402

mg/Kg

<0.00402 U

Diesel Range Organics (Over	<50.0 U	50.0	mg/Kg	12/29/21 15:34	12/31/21 23:48	1
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
					A II	D:// E
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	%Recovery Qualifier 100	70 - 130		12/29/21 15:34	12/31/21 23:48	Dii Fac
		·				DII F

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9820		50.0		mg/Kg			12/31/21 10:48	10

Eurofins Xenco, Carlsbad

1/4/2022

Client: Tetra Tech, Inc.

Job ID: 890-1770-1

Project/Site: Kaiser SWD

SDG: Lea County New Mexico

Project/Site: Kaiser SWD SDG: Lea County New Mexico

Client Sample ID: SW-9

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 Fa
Benzene	<0.00202	U	0.00202		mg/Kg		12/29/21 14:29	12/30/21 22:12	
Toluene	<0.00202	U	0.00202		mg/Kg		12/29/21 14:29	12/30/21 22:12	
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/29/21 14:29	12/30/21 22:12	
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		12/29/21 14:29	12/30/21 22:12	
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/29/21 14:29	12/30/21 22:12	
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		12/29/21 14:29	12/30/21 22:12	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	126		70 - 130				12/29/21 14:29	12/30/21 22:12	
1,4-Difluorobenzene (Surr)	75		70 - 130				12/29/21 14:29	12/30/21 22:12	
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			01/04/22 15:22	
Analyte							•	Analyzed	
Total TPH	<50.0	U	50.0		ma/Ka			01/04/22 15:21	
Total TPH	<50.0		50.0		mg/Kg			01/04/22 15:21	
	ge Organics (D	RO) (GC)	50.0		mg/Kg			01/04/22 15:21	
Method: 8015B NM - Diesel Ranç Analyte	ge Organics (D	RO) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier		MDL		<u>D</u>	Prepared 12/29/21 15:34		Dil Fa
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>	<u>.</u>	Analyzed	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 U	RL	MDL	Unit mg/Kg	<u>D</u>	12/29/21 15:34	Analyzed 01/01/22 00:09	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)	ge Organics (D) Result <50.0	RO) (GC) Qualifier U	RL 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	12/29/21 15:34 12/29/21 15:34	Analyzed 01/01/22 00:09 01/01/22 00:09	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	ge Organics (D) Result <50.0 <50.0	RO) (GC) Qualifier U	RL 50.0 50.0 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	Analyzed 01/01/22 00:09 01/01/22 00:09 01/01/22 00:09	Dil Fa
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	ge Organics (D Result <50.0 <50.0 <50.0	RO) (GC) Qualifier U		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 Fa
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 Method: 300.0 - Anions, Ion Chro	ge Organics (D) Result <50.0 <50.0 <50.0 **Recovery 92 108	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>	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 Fa
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	ge Organics (D) Result <50.0 <50.0 <50.0 %Recovery 92 108 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	D	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 Fa

Client Sample ID: SW-10

Date Collected: 12/23/21 00:00

Lab Sample ID: 890-1770-7

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	<0.00201	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)	167	S1+	70 - 130				12/29/21 14:29	12/30/21 22:32	1

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 BTEX - Total BTEX 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

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	ma/Ka			01/04/22 15:21	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Pocult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	- INCOURT	Qualifier		MIDE	Oilit		riepaieu	Allalyzeu	Dirrac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		12/29/21 15:34	01/01/22 00:30	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		12/29/21 15:34	01/01/22 00:30	1
C10-C28)									
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, Ion 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

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	KL	MDL	Unit	U	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/Kg			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 Lab Sample ID: 890-1770-8

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
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		12/29/21 15:34	01/01/22 00:50	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		12/29/21 15:34	01/01/22 00:50	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/29/21 15:34	01/01/22 00:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				12/29/21 15:34	01/01/22 00:50	1
o-Terphenyl	109		70 - 130				12/29/21 15:34	01/01/22 00:50	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

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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	
390-1770-1	SW-1	122	79	
390-1770-2	SW-3	131 S1+	104	
390-1770-3	SW-6	124	104	
390-1770-4	SW-7	128	90	
390-1770-5	SW-8	129	89	
390-1770-6	SW-9	126	75	
390-1770-7	SW-10	167 S1+	123	
390-1770-8	SW-11	156 S1+	89	
_CS 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	
_CSD 880-15812/2-A	Lab Control Sample Dup	143 S1+	117	
MB 880-15736/5-A	Method Blank	103	105	
VID 000 10700/071	Method Blank	90	87	

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)	
890-1770-1	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+	

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1CO = 1-Chlorooctane OTPH = o-Terphenyl

QC Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1770-1 SDG: Lea County New Mexico Project/Site: Kaiser SWD

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-15736/5-A

Analysis Batch: 15788

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15736

1

	MB	MB						
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 14:42	•
Toluene	<0.00200	U	0.00200	mg/Kg		12/29/21 14:29	12/30/21 14:42	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/29/21 14:29	12/30/21 14:42	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/29/21 14:29	12/30/21 14:42	
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/29/21 14:29	12/30/21 14:42	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/29/21 14:29	12/30/21 14:42	

мв мв

MD MD

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	12	2/29/21 14:29	12/30/21 14:42	1
1,4-Difluorobenzene (Surr)	105		70 - 130	12	2/29/21 14:29	12/30/21 14:42	1

Lab Sample ID: LCS 880-15736/1-A

Matrix: Solid

Analysis Batch: 15788

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15736

	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 Sample Dup

Prep Type: Total/NA Prep Batch: 15736

	Spike	LCSD	LCSD				70Rec.		KFD	
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 Spike Prep Type: Total/NA

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

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)

Lab Sample ID: 880-9746-A-1-C MSD

Matrix: Solid

Analysis Batch: 15788

Lab Sample ID: 880-9746-A-1-B MS Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 15736

Sample Sample Spike MS MS 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

%Rec.

MS MS

Surrogate	%Recovery Qu	alifier	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

Analysis Batch: 15788

Matrix: Solid

Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit %Rec 0.100 0.05242 F1 Benzene <0.00200 UF1 mg/Kg 52 70 - 130 35 Toluene 0.100 0.06213 F1 62 <0.00200 UF1 mg/Kg 70 - 130 6 Ethylbenzene <0.00200 U 0.100 0.07132 mg/Kg 71 70 - 130 0 <0.00399 UF1 m-Xylene & p-Xylene

35 35 0.200 0.1372 F1 70 - 130 35 mg/Kg 3 0.100 <0.00200 U 0.07030 70 70 - 130 mg/Kg

MSD MSD

Surrogate	%Recovery C	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

o-Xylene

Analysis Batch: 15844

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 15812

MB MB

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	

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 Matrix: Solid** Prep Type: Total/NA Prep Batch: 15812 Analysis Batch: 15844 LCS LCS Snike

	оріке	L03	LUU				/ortec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
o-Xylene	0.100	0.07679		mg/Kg		77	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	0	S1-	70 - 130

Lab Sample ID: LCSD 880-15812/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA Analysis Batch: 15844 Prep Batch: 15812

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%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
m-Xylene & p-Xylene	0.200	0.1660		mg/Kg		83	70 - 130	3	35
o-Xylene	0.100	0.08149		mg/Kg		81	70 - 130	6	35

o-Xylene			0.100	0.08149	mg/Kg
	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 Prep Type: Total/NA Analysis Batch: 15844 Prep Batch: 15812 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
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Client Sample ID: Matrix Spike Duplicate Lab Sample ID: 880-9746-A-6-H MSD **Matrix: Solid**

Analysis Batch: 15844

Alialysis Datcii. 13044									rieh	Daten.	13012
	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

Job ID: 890-1770-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County New Mexico

Limits

70 - 130

70 - 130

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 1,4-Difluorobenzene (Surr) 106

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) 12/31/21 20:42 OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 12/29/21 15:34

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	12/29/21 15:34	12/31/21 20:42	1
o-Terphenyl	132	S1+	70 - 130	12/29/21 15:34	12/31/21 20:42	1

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

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	112	70 - 130
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

LCSD LCSD Spike %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits Limit Gasoline Range Organics 1000 888.9 89 70 - 130 6 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1107 111 70 - 130 20 mg/Kg

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 Sa	mple	ID: S	W-
Prep	Type:	Tota	I/N/

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

Matrix: Solid

Analysis Batch: 15825

Client Sample ID: SW-1
Prep Type: Total/NA

Prep Batch: 15746

Sample Sample Spike MSD MSD %Rec. RPD Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits **RPD** Limit <49.9 U F1 999 495.1 F1 47 70 - 130 2 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 UF1 999 467.3 F1 mg/Kg 47 70 - 130 2 20 C10-C28)

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	88		70 - 130

MSD MSD

MB MB

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-15755/1-A

Matrix: Solid

Analysis Batch: 15821

Client Sample ID:	Method Blank
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Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Analyte Result Qualifier MDL Unit Prepared Dil Fac Analyzed Chloride <5.00 U 5.00 12/31/21 07:03 mg/Kg

Lab Sample ID: LCS 880-15755/2-A

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

Matrix: Solid

Allalysis batch: 15021									
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D 9	%Rec	Limits	RPD	Limit
Chloride	250	253.3		mg/Kg		101	90 - 110	1	20

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 Spike MS MS %Rec. Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits 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
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	274		2500	2966		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 880-9747-A-3-D MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

MR MR

Analysis Batch: 15821

MS MS %Rec. Spike 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 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 15821

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	<5.04	U	252	259.9		mg/Kg		101	90 - 110	1	20

Lab Sample ID: MB 880-15803/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 15920

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 01/03/22 16:56

Lab Sample ID: LCS 880-15803/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 15920

	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	245.5		ma/Ka		98	90 - 110		_

Lab Sample ID: LCSD 880-15803/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 15920

	Spike	LCSD LCS	SD			%Rec.		RPD	
Analyte	Added		ıalifier Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	239.6	mg/Kg		96	90 - 110	2	20	

Lab Sample ID: 890-1770-1 MS Client Sample ID: SW-1 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 15920

Analysis Batom 10020										
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	287	F1	250	527.7		mg/Kg		97	90 - 110	

Lab Sample ID: 890-1770-1 MSD

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

Client Sample ID: SW-1 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 15920

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
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	

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

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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	Type	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

Date Collected: 12/23/21 00:00

Lab Sample ID: 890-1770-2

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			5.01 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

Date Collected: 12/23/21 00:00

Lab Sample ID: 890-1770-3

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			5.03 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

Date Collected: 12/23/21 00:00

Lab Sample ID: 890-1770-4

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

1/4/2022

Client Sample ID: SW-7

Date Collected: 12/23/21 00:00

Date Received: 12/28/21 10:30

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County New Mexico

Lab Sample ID: 890-1770-4

Matrix: Solid

Job ID: 890-1770-1

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 8015 NM 15912 Analysis 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 15825 12/31/21 23:27 ΑJ XEN MID 1 15755 12/29/21 16:19 XEN MID Soluble Leach DI Leach 5 g 50 mL CA 300.0 15821 01/03/22 17:39 Soluble Analysis 10 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 **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			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 **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 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

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

Client Sample ID: SW-10 Date Collected: 12/23/21 00:00 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
Soluble	Leach	DI Leach			5.02 g	50 mL	15755	12/29/21 16:19	CA	XEN MID
Soluble	Analysis	300.0		1			15821	12/31/21 11:05	CH	XEN MID

Client Sample ID: SW-11 Lab Sample ID: 890-1770-8

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	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:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Job ID: 890-1770-1 Client: Tetra Tech, Inc. 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	Pı	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 certif	ied by the governing authority. This list ma	ay include analytes for whi
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

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

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

ORIGINAL COPY

Analysis Reques	Tetra Tech, Inc.	1	890-1770 Chain of Custody		- 2
Client Name:	Permian Water Solutions	Site Manager:	Clair Gonzales	ANALYSIS RE	ST STATE
Project Name:	Kaiser SWD				
Project Location: (county, state)	Lea County, New Mexico	Project #:	212C-MD-02230		
Invoice to:					
	Dusty McInturff - Permian Water Solutions			Hg	
Receiving Laboratory:	Eurofins Xenco	Sampler Signature:	Ezequiel Moreno	DRO - I	5
Comments:				X 82608 C35) DRO - 0 a Cd Cr Ba Cd Cr	624 270C/62
		SAMPLING	MATRIX PRESERVATIVE	BTE (Ext to GRO	260B / Vol. 8 608
LAB#	SAMPLE IDENTIFICATION	YEAR: 2020	R	RED (Y 8021B X1005 015M (270C letals A	Semi V Vol. 8 Semi. 8082 /
(LABUSE)		DATE	WATE SOIL HCL HNO ₃ ICE None	PAH 8 Total M	PCB's NORM
	SW-1 (0-4')	12/23/2021	×	×	
	SW-3 (0-4')	12/23/2021	×		
	SW-6 (0-4')	12/23/2021	×	×	
	SW-7 (0-4')	12/23/2021	×	×	
	SW-8 (0-4')	12/23/2021	×	×	
	SW-9 (0-4')	12/23/2021	×	×	
	SW-10 (0-4')	12/23/2021	×	×	
	SW-11 (0-4')	12/23/2021	×	×	
Relingerished by:	Date: Time:	Received by:	Date: Time:	LAB USE	REMARKS: X STANDARD
Relinquished by:	Date: Time:	Received by:		Sampl	RUSH: Same Day
Relinquished by:	Date: Time:	Received by:	Date: Time:	8:0	Special Report Limits or TRRP Report
				מולי בייני בייני בייני בייני בייני בייני בייניים ביינים בי	DED EEDEY HDS Tracking #

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Login Sample Receipt Checklist

Client: Tetra Tech, Inc. Job Number: 890-1770-1 SDG Number: Lea County New Mexico

Login Number: 1770 List Number: 1 Creator: Clifton, Cloe List Source: Eurofins Xenco, Carlsbad

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	

<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

MRAMER

Authorized for release by: 11/10/2021 1:19:33 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

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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.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-1502-1 SDG: 212C-MD-02230

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Definitions/Glossary

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Qualifiers

GC V	AC
Qualific	er

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

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
Percent Recovery
Contains Free Liquid
Colony Forming Unit
Contains No Free Liquid
Duplicate Error Ratio (normalized absolute difference)
Dilution Factor
Detection Limit (DoD/DOE)
Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
Decision Level Concentration (Radiochemistry)
Estimated Detection Limit (Dioxin)
Limit of Detection (DoD/DOE)
Limit of Quantitation (DoD/DOE)
EPA recommended "Maximum Contaminant Level"
Minimum Detectable Activity (Radiochemistry)
Minimum Detectable Concentration (Radiochemistry)
Method Detection Limit
Minimum Level (Dioxin)
Most Probable Number
Method Quantitation Limit
Not Calculated
Not Detected at the reporting limit (or MDL or EDL if shown)
Negative / Absent
Positive / Present
Practical Quantitation Limit
Presumptive
Quality Control
Relative Error Ratio (Radiochemistry)
Reporting Limit or Requested Limit (Radiochemistry)
Relative Percent Difference, a measure of the relative difference between two points

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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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 Sample Results

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	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH	•	Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/05/21 13:50	Dil Fac
Total TPH	<49.9	U	49.9		mg/kg			11/05/21 13.50	!
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 F2	49.9		mg/Kg		11/02/21 11:44	11/03/21 11:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 11:42	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 11:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				11/02/21 11:44	11/03/21 11:42	1
o-Terphenyl	118		70 - 130				11/02/21 11:44	11/03/21 11:42	1
Method: 300.0 - Anions, Ion Chro						_			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1680		25.0		mg/Kg			11/06/21 06:01	5

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

11/03/21 12:43

Lab Sample ID: 890-1502-3

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-2 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Method: 8021B	Volatile Ore	ranic Com	nounds (C	C	(Continued)	
WELLIOU. OUZ ID	- voiatile Org	Janiic Com	poulius (C	3C) ((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

Mathod:	Total RTFY	- Total BTEX	Calculation
mictilou.	TOTAL DIEN	- IUIUI DI LA	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 (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	I	D	Prepared	Analyzed	Dil Fac
Total TPH		<49.9	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 (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 12:43	1
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 12:43	1
C10-C28) Oll 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
1-Chlorooctane	119		70 - 130				11/02/21 11:44	11/03/21 12:43	1

1-Chlorooctane 119 70 - 130	
	11/02/21 11:4
o-Terphenyl 131 S1+ 70 - 130	11/02/21 11:4

Method: 300.0 - Anions, Ion Chron	natography - Soluble							
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	235	5.04	ma/Ka			11/06/21 06:09		

Client Sample ID: BH-3 (6)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 6

	/							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 01:28	1
<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 01:28	1
<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 01:28	1
<0.00399	U	0.00399		mg/Kg		11/01/21 11:05	11/03/21 01:28	1
<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 01:28	1
<0.00399	U	0.00399		mg/Kg		11/01/21 11:05	11/03/21 01:28	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
122		70 - 130				11/01/21 11:05	11/03/21 01:28	1
70		70 - 130				11/01/21 11:05	11/03/21 01:28	1
	Result <0.00200 <0.00200 <0.00200 <0.00200 <0.00399 <0.00200 <0.00399 <0.00399 %Recovery 122		Result Qualifier RL <0.00200	Result Qualifier RL MDL <0.00200	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 U

Mothod:	Total RTF	Y - Total R	TFX Calculatio	n

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

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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Matrix: Solid

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 (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/02/21 11:44	11/03/21 13:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/02/21 11:44	11/03/21 13:03	1
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							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

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

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
-	0.0000	Ü	0.00399		mg/rtg			11/00/21 17:11	
Method: 8015 NM - Diesel Range (0.00399		mg/ng			11/05/21 17:11	,
Method: 8015 NM - Diesel Range (Organics (DR		0.00399 RL	MDL	Unit	D	Prepared	Analyzed	
	Organics (DR	O) (GC) Qualifier		MDL		D	Prepared		Dil Fac
Method: 8015 NM - Diesel Range (Analyte Total TPH	Organics (DR Result <50.0	O) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range (Analyte Total TPH Method: 8015B NM - Diesel Range	Organics (DR Result <50.0	O) (GC) Qualifier	RL		Unit	D	Prepared Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range (Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	Organics (DR Result <50.0	Qualifier U RO) (GC) Qualifier	RL		Unit mg/Kg	<u> </u>		Analyzed 11/05/21 13:50	Dil Fac
Method: 8015 NM - Diesel Range (Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	Organics (DR Result <50.0 Organics (DI Result	Qualifier U RO) (GC) Qualifier U U U U U U U U U U U U U			Unit mg/Kg Unit mg/Kg	<u> </u>	Prepared	Analyzed 11/05/21 13:50 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range (Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	Organics (DR/Result <50.0 Organics (DR/Result <50.0	Qualifier U RO) (GC) Qualifier U U	RL 50.0		Unit mg/Kg Unit	<u> </u>	Prepared 11/02/21 11:44	Analyzed 11/05/21 13:50 Analyzed 11/03/21 13:23	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	Organics (DR/Result <50.0 Organics (DR/Result <50.0	Qualifier U RO) (GC) Qualifier U U U U U	RL 50.0		Unit mg/Kg Unit mg/Kg	<u> </u>	Prepared 11/02/21 11:44	Analyzed 11/05/21 13:50 Analyzed 11/03/21 13:23	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)	Organics (DR/Result <50.0 Organics (DR/Result <50.0 <p>Se Organics (DR/Result <50.0)</p>	Qualifier U RO) (GC) Qualifier U U U U U	RL 50.0		Unit mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 11/02/21 11:44 11/02/21 11:44	Analyzed 11/05/21 13:50 Analyzed 11/03/21 13:23 11/03/21 13:23	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)	Organics (DR/Result < 50.0 Organics (DR/Result < 50.0 <p>4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</p>	Qualifier U RO) (GC) Qualifier U U U U U	RL 50.0		Unit 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	Analyzed 11/05/21 13:50 Analyzed 11/03/21 13:23 11/03/21 13:23	Dil Fac Dil Fac 1 1 1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Result Qualifier

<49.8 U

Job ID: 890-1502-1

SDG: 212C-MD-02230

Lab Sample ID: 890-1502-4

Matrix: Solid

Sample Depth: 6

Method: 300.0 - Anions, Ion Chrom	atography -	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) Lab Sample ID: 890-1502-5 **Matrix: Solid**

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Method: Total BTEX - Total BTEX Calculation

Client Sample ID: BH-4 (6)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte

Gasoline Range Organics

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 02:09	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/01/21 11:05	11/03/21 02:09	1
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	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
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

Total BTEX	<0.00403 U	0.00403		mg/Kg			11/08/21 17:11	1
Method: 8015 NM - Diesel	Range Organics (DRO) (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 - Diese	el Range Organics (DRO) (GC)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

RL

MDL Unit

mg/Kg

Prepared

11/02/21 11:44

Analyzed

11/03/21 13:43

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Surrogate 1-Chlorooctane		Qualifier	70 - 130	Prepared 11/02/21 11:44	Analyzed 11/03/21 13:43	Dil Fac

49.8

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte Result Quali			RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	123		4.97		mg/Kg			11/07/21 05:30	1

Dil Fac

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 Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 02:29	1
Toluene	< 0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 02:29	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 02:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 11:05	11/03/21 02:29	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		11/01/21 11:05	11/03/21 02:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 11:05	11/03/21 02:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130				11/01/21 11:05	11/03/21 02:29	1
1,4-Difluorobenzene (Surr)	104		70 - 130				11/01/21 11:05	11/03/21 02:29	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			11/08/21 17:11	1
Method: 8015 NM - Diesel Range Analyte		O) (GC) 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 Ran									•
Metrica, ou lab MM - Diesel Kari	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics	• •	Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared 11/02/21 11:44	Analyzed 11/03/21 14:03	Dil Fac
Analyte	Result	Qualifier U		MDL		<u>D</u>	<u>.</u>		1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0	Qualifier U	50.0	MDL	mg/Kg	<u>D</u>	11/02/21 11:44	11/03/21 14:03	1
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	mg/Kg	<u> </u>	11/02/21 11:44	11/03/21 14:03 11/03/21 14:03	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	50.0 50.0 50.0	MDL	mg/Kg	<u>D</u>	11/02/21 11:44 11/02/21 11:44 11/02/21 11:44	11/03/21 14:03 11/03/21 14:03 11/03/21 14:03	1 1 1 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	<u>D</u>	11/02/21 11:44 11/02/21 11:44 11/02/21 11:44 Prepared	11/03/21 14:03 11/03/21 14:03 11/03/21 14:03 Analyzed	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) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U U Qualifier	50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg	<u>D</u>	11/02/21 11:44 11/02/21 11:44 11/02/21 11:44 Prepared 11/02/21 11:44	11/03/21 14:03 11/03/21 14:03 11/03/21 14:03 Analyzed 11/03/21 14:03	
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	50.0 50.0 50.0 Limits 70 - 130		mg/Kg	<u>D</u>	11/02/21 11:44 11/02/21 11:44 11/02/21 11:44 Prepared 11/02/21 11:44	11/03/21 14:03 11/03/21 14:03 11/03/21 14:03 Analyzed 11/03/21 14:03	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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

Lab Sample ID: 890-1502-7

11/02/21 11:44

11/02/21 11:44 11/03/21 14:23

11/03/21 14:23

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 Con	noounds (GC)	(Continued)
motifical collision of gains con	ipodiido (OO)	(Continuou,

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

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	<0.00400	U	0.00400		mg/Kg			11/08/21 17:11	1

Math	nod: 8015 NM	Discol Do	nas Orasni	ica (DDO)	(CC)
weu	IUU. OU I Ə INIVI	- Diesei Ra	nue Organi	ICS (DRU)	1001

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		11/02/21 11:44	11/03/21 14:23	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		11/02/21 11:44	11/03/21 14:23	1
C10-C28)									
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

1-Chlorooctane	103	70 - 130	
o-Terphenyl	115	70 - 130	

Method: 300.0 - Anions, Ion Chron	natography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac

raidiyio	rtoouit quaiii		IIIDE OIIIC	 . roparoa	7411d1y20d	D uo
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 -	Volatile Organ	ic 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		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

Method: Tot	al RTFY -	Total RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	0)	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00402	U	0.00402		ma/Ka				11/08/21 17:11	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

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Job ID: 890-1502-1

Lab Sample ID: 890-1502-8

Client: Tetra Tech, Inc. 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

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 14:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/02/21 11:44	11/03/21 14:43	1
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	matography -	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	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 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
OII 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

Client: Tetra Tech, Inc.
Project/Site: Kaiser SWD

Lab Sample ID: 890-1502-9

Matrix: Solid

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

Method: 300.0 - Anions, Ion Chrom	atography -	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) Lab Sample ID: 890-1502-10

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	<0.00201	U	0.00201		mg/Kg		11/01/21 11:05	11/03/21 03:51	
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	
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	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130				11/01/21 11:05	11/03/21 03:51	
1,4-Difluorobenzene (Surr)	105		70 - 130				11/01/21 11:05	11/03/21 03:51	
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			11/08/21 17:11	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									
Analyte		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 15:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 15:23	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 15:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
	106		70 - 130				11/02/21 11:44	11/03/21 15:23	1
1-Chlorooctane			70 400				11/02/21 11:44	11/03/21 15:23	
1-Chlorooctane o-Terphenyl	118		70 - 130						
		Soluble	70 - 130						·
o-Terphenyl	omatography -	Soluble Qualifier	70 - 130	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-1502-11

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
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9	MDL	Unit mg/Kg	D	Prepared	Analyzed 11/05/21 13:50	Dil Fac
Method: 8015B NM - Diesel Rang			.0.0		919				
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9		49.9		mg/Kg		11/02/21 11:44	11/03/21 16:02	1
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 16:02	
C10-C28)									1
C10-C28) OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 16:02	
Oll Range Organics (Over C28-C36)	<49.9 %Recovery		49.9		mg/Kg		11/02/21 11:44 Prepared	11/03/21 16:02 Analyzed	1
•					mg/Kg				1 Dil Fac
Oll Range Organics (Over C28-C36) Surrogate	%Recovery		Limits		mg/Kg		Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	%Recovery 109 123 pmatography -	Qualifier Soluble	Limits 70 - 130		mg/Kg		Prepared 11/02/21 11:44	Analyzed 11/03/21 16:02	1 1 <i>Dil Fac</i> 1
Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 109 123 pmatography -	Qualifier	Limits 70 - 130	MDL	mg/Kg Unit mg/Kg	<u>D</u> _	Prepared 11/02/21 11:44	Analyzed 11/03/21 16:02	1 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	1

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Lab Sample ID: 890-1502-12

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Matrix: Solid

Lab Sample ID: 890-1502-12

11/02/21 11:44

11/03/21 16:22

Lab Sample ID: 890-1502-13

Matrix: Solid

11/02/21 11:44 11/03/21 16:22

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

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 Ore	ranic Com	nounds (C	C	(Continued)	
WELLIOU. OUZ ID	- voiatile Org	Janiic Com	poulius (C	3C) ((Continueu)	

Surrogate	%Recovery Qualifie	r Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	98	70 - 130	11/01/21 11:05	11/03/21 05:34	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	 		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 Qu	ualifier 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)
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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 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

1-Chlorooctane	104	 70 - 130
o-Terphenyl	112	70 - 130

Method: 300.0 - Anions, Ion Chron	natography - Soluble						
Analyto	Popult Qualifier	DI	MDI Unit	n	Propared	Analyzod	Dil Eac

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 Compounds (GC)			
	Mothod: 9021D	Volatile Organie	Compounde (CC)

wethou: 6021B - Volatile Organ	nic Compounds ((GC)							
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

Mothod:	Total RTF	Y - Total R	TFX Calculatio	n

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

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

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
		-	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	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 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
OII 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

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Lab Sample ID: 890-1502-14

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-14 (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	4450		24.9		mg/Kg			11/07/21 07:06	5

Client Sample ID: BH-15 (6)

Date Collected: 10/27/21 00:00

Lab Sample ID: 890-1502-15

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 06:35	
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 06:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 06:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 11:05	11/03/21 06:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 06:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 11:05	11/03/21 06:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130				11/01/21 11:05	11/03/21 06:35	1
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	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 17:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/02/21 11:44	11/03/21 17:22	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/21 11:44	11/03/21 17:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				11/02/21 11:44	11/03/21 17:22	1
o-Terphenyl	123		70 - 130				11/02/21 11:44	11/03/21 17:22	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 3:25:35 PM

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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	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/01/21 11:05	11/03/21 06:55	1
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	1
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 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
						_			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH	Result <49.8		RL 49.8	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/05/21 13:50	
	<49.8	U		MDL		<u>D</u>	Prepared		
Total TPH	<49.8 ge Organics (D	RO) (GC) Qualifier				<u>D</u>	Prepared	11/05/21 13:50 Analyzed	1
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	1 Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<49.8 ge Organics (D	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	CO) (GC) Qualifier U	49.8 RL 49.8		mg/Kg Unit mg/Kg	=	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 (Dispersion of the property of the	U RO) (GC) Qualifier U U	49.8 RL 49.8 49.8		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 17:42 11/03/21 17:42	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	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 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 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	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 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 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 100 113	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 11:44 11/02/21 11:44 11/02/21 11:44 Prepared 11/02/21 11:44	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 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 100 113 omatography -	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 11:44 11/02/21 11:44 11/02/21 11:44 Prepared 11/02/21 11:44	Analyzed 11/03/21 17:42 11/03/21 17:42 11/03/21 17:42 Analyzed 11/03/21 17:42	Dil Fac 1 Dil Fac 1 1 Dil Fac 1 Dil Fac 1 Dil Fac

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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Matrix: Solid

Lab Sample ID: 890-1502-17

Lab Sample ID: 890-1502-18

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-17 (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 11:05	11/03/21 07:16	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	<0.00398	U	0.00398		mg/Kg			11/09/21 10:40	1

Method: 8015 NM	l - Diesel Range O	Prognics (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 rob run Brook	tungo organioo	()	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 11:44	11/03/21 18:03	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 18:03	1
C10-C28)									
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

Surrogate	76Recovery Qualifier	LIIIIII		Frepareu	Allalyzeu	DII Fac
1-Chlorooctane	102	70 - 130		11/02/21 11:44	11/03/21 18:03	1
o-Terphenyl	113	70 - 130	1	11/02/21 11:44	11/03/21 18:03	1
_						

 ${\bf Method: 300.0 - Anions, \, lon \, Chromatography - Soluble}$

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

Mathadi 0004D	Valatile Overen	ic Compounds (GC)
Memoo: Auzib	- voianie Urdan	ic Compounds (GC)

Wethou. 002 ID - Volatile Orga	inc 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 07:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 11:05	11/03/21 07:36	1
Ethylbenzene	<0.00201	U	0.00201		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		mg/Kg		11/01/21 11:05	11/03/21 07:36	1
Xylenes, Total	<0.00402	U	0.00402		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 RTF	Y - Total R	TFX Calculatio	n

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 (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	<49.9	U	49.9	mg/Kg			11/05/21 13:50	1

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Client Sample ID: BH-18 (6)

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

Lab Sample ID: 890-1502-18

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
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 18:22	1
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 18:22	1
C10-C28) OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 18:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				11/02/21 11:44	11/03/21 18:22	1
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
	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
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 18:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 18:42	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 11:44	11/03/21 18:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				11/02/21 11:44	11/03/21 18:42	1
o-Terphenyl	115		70 ₋ 130				11/02/21 11:44	11/03/21 18:42	1

Lab Sample ID: 890-1502-19

Job ID: 890-1502-1 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.

Project/Site: Kaiser SWD

Method: 300.0 - Anions, Ion Chrom	natography -	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 Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 08:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 08:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	11/03/21 08:17	1
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	1
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 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 Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/05/21 13:50	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	<49.8	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 Chr	•								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	449		4.95		mg/Kg			11/07/21 08:20	1

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 BTEX	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 Barras	· Ourrenies (DD	0) (00)							
Method: 8015 NM - Diesel Range Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
				WIDE			ricparca	Allulyzou	
Intal IPH	<49 9	U	49.9		ma/Ka			11/05/21 13:50	1
Total TPH	<49.9	U	49.9		mg/Kg			11/05/21 13:50	1
Iotal IPH : Method: 8015B NM - Diesel Rang			49.9		mg/Kg			11/05/21 13:50	1
: Method: 8015B NM - Diesel Ran	ge Organics (D		49.9 R L	MDL			Prepared	11/05/21 13:50 Analyzed	
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier		MDL		<u>D</u>	Prepared 11/02/21 14:45		Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (D	RO) (GC) Qualifier	RL	MDL	Unit	<u>D</u>		Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte	ge Organics (D 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
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D 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
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	D	11/02/21 14:45	Analyzed 11/03/21 11:27 11/03/21 11:27	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 <49.9 <49.9	RO) (GC) Qualifier U	RL 49.9 49.9 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</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
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>	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
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	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	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 103 123 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	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

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1502-22

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Matrix: Solid

Lab Sample ID: 890-1502-22

11/02/21 14:45

11/02/21 14:45

11/03/21 12:32 11/03/21 12:32

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 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 12:05	11/02/21 18:35	1

Mothod	Total BTEX	Total B	TEV Ca	loulation
wetnoa:	TOTAL BIEN	Total 🗖		liculation

Analyte	Result	Qualifier	RL	MDL	Unit	ı	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			_	11/09/21 10:40	1

Analyte	Result Qu	ualifier 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)
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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 14:45	11/03/21 12:32	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 12:32	1
C10-C28)									
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

Method: 300.0 - Anions, Ion Chromatography - Soluble							
Analyte	Result Qual	lifier 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	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 12:05	11/02/21 18:56	1
Toluene	<0.00200	U	0.00200		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

Method:	Total RTF	Y - Total RT	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 (DI	RO) (GC)
ı	Michiga. 00 to Min - Diese	i italige Organica (Di	10,100,

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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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1

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

Lab Sample ID: 890-1502-23

Matrix: Solid

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		11/02/21 14:45	11/03/21 12:53	1
(GRO)-C6-C10									
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
Chloride	141		5.05		mg/Kg			11/07/21 08:42	1

Lab Sample ID: 890-1502-24 Client Sample ID: BH-24 (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 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 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
•									
-									
	•						_		
Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH	•	Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/05/21 13:50	Dil Fac
Analyte Total TPH	Result < 50.0	Qualifier U		MDL		<u>D</u>	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <50.0	Qualifier U				<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	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 (Dige 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 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 11/02/21 14:45	11/05/21 13:50 Analyzed 11/03/21 13:14	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 11/02/21 14:45	11/05/21 13:50 Analyzed 11/03/21 13:14	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 U	50.0 RL 50.0 50.0		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 13:14 11/03/21 13:14	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 11/02/21 14:45 11/02/21 14:45 11/02/21 14:45	Analyzed 11/03/21 13:14 11/03/21 13:14 11/03/21 13:14	1 Dil Fac 1

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)

Date Collected: 10/27/21 00:00

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 Fac
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	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/02/21 19:37	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/21 12:05	11/02/21 19:37	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/02/21 19:37	1
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
1,4-Difluorobenzene (Surr)	97		70 - 130				11/01/21 12:05	11/02/21 19:37	1
· 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			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	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 13:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/02/21 14:45	11/03/21 13:36	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/02/21 14:45	11/03/21 13:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				11/02/21 14:45	11/03/21 13:36	1
o-Terphenyl	122		70 - 130				11/02/21 14:45	11/03/21 13:36	1
Method: 300.0 - Anions, Ion Chr	• • •								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	447	E4	4.99		mg/Kg			11/07/21 09:49	1

Lab Sample ID: 890-1502-26

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 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 10:40	1
Analyte Total TPH	Result <50.0	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	П							
		O	50.0		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Rang	ge Organics (D		50.0		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Ranç Analyte	, ,		50.0 RL	MDL		D	Prepared	11/05/21 13:50 Analyzed	
	, ,	RO) (GC) Qualifier		MDL		<u>D</u>	Prepared 11/02/21 14:45		Dil Fac
Analyte Gasoline Range Organics	Result	RO) (GC) Qualifier	RL	MDL	Unit	<u>D</u>		Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		RO) (GC) Qualifier U	RL	MDL	Unit mg/Kg	<u>D</u>	11/02/21 14:45	Analyzed 11/03/21 13:57	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	RO) (GC) Qualifier U	RL 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/02/21 14:45	Analyzed 11/03/21 13:57 11/03/21 13:57	Dil Fac
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	RO) (GC) Qualifier U	RL 50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/02/21 14:45 11/02/21 14:45 11/02/21 14:45	Analyzed 11/03/21 13:57 11/03/21 13:57 11/03/21 13:57	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	FL 50.0 50.0 50.0 Limits	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	Analyzed 11/03/21 13:57 11/03/21 13:57 11/03/21 13:57 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 50.0 50.0 50.0 50.0 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 13:57 11/03/21 13:57 11/03/21 13:57 Analyzed 11/03/21 13:57	1 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	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>	11/02/21 14:45 11/02/21 14:45 11/02/21 14:45 Prepared 11/02/21 14:45	Analyzed 11/03/21 13:57 11/03/21 13:57 11/03/21 13:57 Analyzed 11/03/21 13:57	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	

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1502-27

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

Client Sample ID: BH-27 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Lab Sample	ID:	890-1502-27

Lab Sample ID: 890-1502-28

Matrix: Solid

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

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

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		_	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	<49.8	U	49.8		mg/Kg		11/02/21 14:45	11/03/21 14:18	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		11/02/21 14:45	11/03/21 14:18	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/02/21 14:45	11/03/21 14:18	1
	2/-								
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	D	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)

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	RTFX	- Total	RTFX	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

н	Made al. COAF NIM Diaga	D O! (DDO)	(00)
ı	Method: 8015 NM - Diese	Rande Ordanics (DRO)	1 ((=(.)
ı	Michiga. Colo Min Bicoc	range Organico (Bra	, , , , ,

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: 890-1502-28

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)									
OII 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
		-	4.95		mg/Kg			11/07/21 10:26	

Client Sample ID: BH-29 (15) Lab Sample ID: 890-1502-29 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	<0.00202	U	0.00202		mg/Kg		11/01/21 12:05	11/02/21 20:58	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:05	11/02/21 20:58	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:05	11/02/21 20:58	1
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)							
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 14:45	11/03/21 15:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 15:00	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 15:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				11/02/21 14:45	11/03/21 15:00	1

Lab Sample ID: 890-1502-29

Job ID: 890-1502-1 SDG: 212C-MD-02230

Client Sample ID: BH-29 (15)

Da

Sample Depth: 15

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

ate Collected: 10/27/21 00:00	Matrix: Solid
ate Received: 10/29/21 12:45	

Method: 300.0 - Anions, Ion Chron	matography - S	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) Lab Sample ID: 890-1502-30 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	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/02/21 21:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/02/21 21:19	1
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	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 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
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 15:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130				11/02/21 14:45	11/03/21 15:21	1
o-Terphenyl	136	S1+	70 - 130				11/02/21 14:45	11/03/21 15:21	1
	matography -	Soluble							
Method: 300.0 - Anions, Ion Chro	malography -	00.00.0							
Method: 300.0 - Anions, Ion Chro Analyte	0	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

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	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
Mathadi 2015 NM Diagal Dansa	o Overenies (DD	0) (00)							
Method: 8015 NM - Diesel Range	•	U) (G C)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier U	RL 49.9	MDL	Unit ma/Ka	D	Prepared	Analyzed 11/05/21 13:50	
Analyte Total TPH	Result <49.9		RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/05/21 13:50	
Total TPH	<49.9	U		MDL		<u>D</u>	Prepared		
	<49.9 ge Organics (D	U				<u>D</u> 	Prepared Prepared		1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<49.9 ge Organics (D	RO) (GC) Qualifier	49.9		mg/Kg			11/05/21 13:50	1 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	CODE (GC) Qualifier U	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	<pre>cquite content of the content o</pre>	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 16:03	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 11/02/21 14:45 11/02/21 14:45	11/05/21 13:50 Analyzed 11/03/21 16:03 11/03/21 16:03	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 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 16:03 11/03/21 16:03 11/03/21 16:03	Dil Face 1 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 (D) 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 14:45 11/02/21 14:45 11/02/21 14:45 Prepared	Analyzed 11/03/21 16:03 11/03/21 16:03 11/03/21 16:03 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	<49.9 ge Organics (D) Result <49.9 <49.9 <49.9 *49.9 *Recovery 105 123	CONTROL (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 14:45 11/02/21 14:45 11/02/21 14:45 Prepared 11/02/21 14:45	Analyzed 11/03/21 16:03 11/03/21 16:03 11/03/21 16:03 Analyzed 11/03/21 16:03	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	49.9 ge Organics (D Result <49.9 <49.9 <80.9 %Recovery 105 123 omatography -	CONTROL (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 14:45 11/02/21 14:45 11/02/21 14:45 Prepared 11/02/21 14:45	Analyzed 11/03/21 16:03 11/03/21 16:03 11/03/21 16:03 Analyzed 11/03/21 16:03	Dil Fac 1 Dil Fac 1 1 Dil Fac 1 Dil Fac 1 Dil Fac

Client Sample ID: BH-32 (15)

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

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

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 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)	93	70 - 130	11/01/21 12:05	11/02/21 23:28	1

Mothod	Total BTEX	Total B	TEV Ca	loulation
wetnoa:	TOTAL BIEN	Total 🗖		liculation

Analyte	Result	Qualifier	RL	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	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 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 14:45	11/03/21 16:24	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9	1	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	1	mg/Kg		11/02/21 14:45	11/03/21 16:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	123	70 - 130	11/02/21 14:45	11/03/21 16:24	1
o-Terphenyl	150 S1+	70 - 130	11/02/21 14:45	11/03/21 16:24	1

Method: 300	.0 - Anions, Ion	Chromatograph	y - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	833		5.00		mg/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

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 12:05	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		mg/Kg			11/09/21 10:40	1

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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4.6

13

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Lab Sample ID: 890-1502-33

Lab Sample ID: 890-1502-34

Matrix: Solid

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	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 16:46	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 16:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane			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

Client Sample ID: BH-34 (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 00:09	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	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		11/02/21 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

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

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - 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

Analyte

(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

Total BTEX	<0.00401	U	0.00401		mg/Kg			11/09/21 10:40	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			11/05/21 13:50	1
Method: 8015B NM - Diesel Range	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 14:45	11/03/21 17:28	1

MDL Unit

mg/Kg

Prepared

11/02/21 14:45

Analyzed

11/03/21 17:28

Result Qualifier

<50.0 U

C10-C28) Oll 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

Method: 300.0 - Anions, Ion Chromatography - 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	

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Dil Fac

11/10/2021

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	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/03/21 00:49	1
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	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:05	11/03/21 00:49	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/21 12:05	11/03/21 00:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				11/01/21 12:05	11/03/21 00:49	1
1,4-Difluorobenzene (Surr)	109		70 - 130				11/01/21 12:05	11/03/21 00:49	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 10:40	1
Analyte Total TPH	<49.8	Qualifier U	49.8 —	MDL	mg/Kg	<u>D</u>	Prepared	Analyzed 11/05/21 13:50	Dil Fac
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	
									Dil Fac
5 5	<49.8	U	49.8		mg/Kg		11/02/21 14:45	11/03/21 17:49	
5 5	<49.8 <49.8		49.8		mg/Kg		11/02/21 14:45 11/02/21 14:45	11/03/21 17:49	1
(GRO)-C6-C10 Diesel Range Organics (Over		U							1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)	<49.8	U U	49.8		mg/Kg		11/02/21 14:45	11/03/21 17:49	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	<49.8 <49.8	U U	49.8 49.8		mg/Kg		11/02/21 14:45 11/02/21 14:45	11/03/21 17:49 11/03/21 17:49	1 1 1 Dil Fac
C10-C28)	<49.8 <49.8 %Recovery	U U	49.8 49.8 <i>Limits</i>		mg/Kg		11/02/21 14:45 11/02/21 14:45 Prepared	11/03/21 17:49 11/03/21 17:49 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.8 <49.8 95 110	U U Qualifier	49.8 49.8 Limits 70 - 130		mg/Kg		11/02/21 14:45 11/02/21 14:45 Prepared 11/02/21 14:45	11/03/21 17:49 11/03/21 17:49 Analyzed 11/03/21 17:49	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<49.8 <49.8	U U Qualifier	49.8 49.8 Limits 70 - 130	MDL	mg/Kg	D	11/02/21 14:45 11/02/21 14:45 Prepared 11/02/21 14:45	11/03/21 17:49 11/03/21 17:49 Analyzed 11/03/21 17:49	1

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	

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Lab Sample ID: 890-1502-37

Lab Sample ID: 890-1502-37

Lab Sample ID: 890-1502-38

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-37 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

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)	101		70 - 130	11/01/21 12:05	11/03/21 01:10	1

Mathod:	Total RTFY	- Total BTEX	Calculation
mictilou.	TOTAL DIEN	- IUIUI DI LA	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

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

Mothod: 004ED	NM - Diesel Ran	as Orasnico	
Melliou, ou lab	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		11/02/21 14:45	11/03/21 18:11	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 18:11	1
C10-C28)									
Oll 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	Analyzed	Dil 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

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifie		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)

mountain colline and an area		(/							
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 01:30	1
Toluene	<0.00200	U	0.00200	1	mg/Kg		11/01/21 12:05	11/03/21 01:30	1
Ethylbenzene	<0.00200	U	0.00200	1	mg/Kg		11/01/21 12:05	11/03/21 01:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:05	11/03/21 01:30	1
o-Xylene	<0.00200	U	0.00200	1	mg/Kg		11/01/21 12:05	11/03/21 01:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 12:05	11/03/21 01:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130				11/01/21 12:05	11/03/21 01:30	1
1,4-Difluorobenzene (Surr)	118		70 - 130				11/01/21 12:05	11/03/21 01:30	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	ma/Ko			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

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	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 18:32	1
(GRO)-C6-C10									
Diesel Range Organics (Over	87.2		49.9		mg/Kg		11/02/21 14:45	11/03/21 18:32	1
C10-C28)									
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	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2030		24.9		mg/Kg			11/07/21 12:25	5

Lab Sample ID: 890-1502-39 Client Sample ID: BH-39 (15) 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 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 (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 14:45	11/03/21 18:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 18:53	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 14:45	11/03/21 18:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				11/02/21 14:45	11/03/21 18:53	1
o-Terphenyl	117		70 ₋ 130				11/02/21 14:45	11/03/21 18:53	1

Lab Sample ID: 890-1502-39

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-39 (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	3300		25.0		mg/Kg			11/07/21 12:32	5

Client Sample ID: BH-40 (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 Fa
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	
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 Analyte Total TPH		Qualifier	RL	MDL	Unit mg/Kg	D	Prepared	Analyzed 11/05/21 13:50	
Analyte Total TPH		Qualifier U		MDL		<u>D</u>	Prepared		Dil Fac
Analyte	Result <49.8 ge Organics (D	Qualifier U				D_	Prepared Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <49.8 ge Organics (D	Qualifier U RO) (GC) Qualifier	49.8		mg/Kg			11/05/21 13:50	
Analyte Total TPH Method: 8015B NM - Diesel Ran	Result <49.8 ge Organics (D Result	Qualifier U RO) (GC) Qualifier U	49.8		mg/Kg		Prepared	11/05/21 13:50 Analyzed	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8 ge Organics (D Result <49.8	Qualifier 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 19:15	Dil Fa
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 <49.8	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 14:45 11/02/21 14:45	11/05/21 13:50 Analyzed 11/03/21 19:15 11/03/21 19:15	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	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 11/02/21 14:45 11/02/21 14:45 11/02/21 14:45	Analyzed 11/03/21 19:15 11/03/21 19:15 11/03/21 19:15	Dil Fa
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 <49.8	Qualifier U RO) (GC) Qualifier U U	49.8 49.8 49.8 49.8 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/02/21 14:45 11/02/21 14:45 11/02/21 14:45 Prepared	Analyzed 11/03/21 19:15 11/03/21 19:15 11/03/21 19:15 Analyzed	Dil Fa
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 <49.8	Qualifier 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	Analyzed 11/03/21 19:15 11/03/21 19:15 11/03/21 19:15 Analyzed 11/03/21 19:15	Dil Fa

11/07/21 12:39

5.04

mg/Kg

1190

Released to Imaging: 9/1/2023 3:25:35 PM

Chloride

2

4

6

7

9

11 12

13

-

Lab Sample ID: 890-1502-41

Client Sample Results

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	
Toluene	<0.00200	U F2 F1	0.00200		mg/Kg		11/01/21 12:11	11/04/21 02:19	
Ethylbenzene	<0.00200	U F2 F1	0.00200		mg/Kg		11/01/21 12:11	11/04/21 02:19	•
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	•
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
Method: 8015 NM - Diesel Range	e Organics (DR	, , ,	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
	e Organics (DR	O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range	e Organics (DR	Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/05/21 13:50	
Method: 8015 NM - Diesel Range Analyte	Organics (DR Result <49.9	Qualifier U		MDL		<u>D</u>	Prepared		
Method: 8015 NM - Diesel Range Analyte Total TPH	e Organics (DR Result <49.9 ge Organics (D Result	Qualifier U RO) (GC) Qualifier		MDL	mg/Kg	<u>D</u>	Prepared Prepared		1
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang	e Organics (DR Result <49.9	Qualifier U RO) (GC) Qualifier	49.9		mg/Kg		<u> </u>	11/05/21 13:50	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 <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
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	e Organics (DR 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 11:27	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)	e Organics (DR Result <49.9 ge Organics (D Result <49.9 <49.9	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/02/21 16:07 11/02/21 16:07	11/05/21 13:50 Analyzed 11/03/21 11:27 11/03/21 11:27	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) Oll Range Organics (Over C28-C36)	ge Organics (DR 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 11:27 11/03/21 11:27 11/03/21 11:27	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) Oll Range Organics (Over C28-C36) Surrogate	ge Organics (DR Result <49.9 Ge Organics (D Result <49.9 449.9 449.9 %Recovery	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 11/02/21 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
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 <49.9 ge Organics (D Result <49.9 449.9 449.9 489.9 %Recovery 96 95	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 11/02/21 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
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	ge Organics (DR Result <49.9 ge Organics (D Result <49.9 49.9 49.9 49.9 %Recovery 96 95 pomatography -	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 11/02/21 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

Client Sample ID: BH-42 (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 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

11/03/21 12:32

Lab Sample ID: 890-1502-43

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-42 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Method: 8021B	Volatile Ore	ranic Com	nounds (C	C	(Continued)	
WELLIOU. OUZ ID	- voiatile Org	Janiic Com	poulius (C	3C) ((Continueu)	

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: 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	<0.00400	U	0.00400		mg/Kg			11/09/21 10:40	1

ш				
ш	Method: 8015 NI	A - Diocol Pane	no Organice	(DPO) (CC)

Analyte	Result Qu	ualifier 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 10:01	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				11/02/21 16:07	11/03/21 12:32	1

- · · · · · · · · · · · · · · · · · · ·		,		-1
1-Chlorooctane	10	1	70 - 130	11/02/21 16:07
o-Terphenyl	10	5	70 - 130	11/02/21 16:07

Method: 300.0 - Anions,	Ion Chromatography - Soluble
Analyte	Posult Qualifier

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil 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

Method: 8021B - Volatile Organic Co	mnolinas ((=(.)

		()							
Analyte	Result	Qualifier	RL	MDL (Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	r	mg/Kg		11/01/21 12:11	11/04/21 03:14	1
Toluene	<0.00198	U	0.00198	r	mg/Kg		11/01/21 12:11	11/04/21 03:14	1
Ethylbenzene	<0.00198	U	0.00198	r	mg/Kg		11/01/21 12:11	11/04/21 03:14	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	r	mg/Kg		11/01/21 12:11	11/04/21 03:14	1
o-Xylene	<0.00198	U	0.00198	r	mg/Kg		11/01/21 12:11	11/04/21 03:14	1
Xylenes, Total	<0.00396	U	0.00396	r	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:	Total R	TFY - T	ntal RT	FX Calcu	ılation

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 (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	<50.0	U	50.0	mg/Kg			11/05/21 13:50	1

Eurofins Xenco, Carlsbad

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Lab Sample ID: 890-1502-43

Lab Sample ID: 890-1502-44

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD 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

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	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/02/21 16:07	11/03/21 12:53	1
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 Fac
1-Chlorooctane	94		70 - 130				11/02/21 16:07	11/03/21 12:53	1
o-Terphenyl	93		70 - 130				11/02/21 16:07	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

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 (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 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
OII 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
o-Terphenyl	116		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 Chrom	atography -	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

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		11/01/21 12:11	11/04/21 04:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 04:08	1
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	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 12:11	11/04/21 04:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				11/01/21 12:11	11/04/21 04:08	1
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 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	•	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	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	Result <49.8		49.8 —	MDL	mg/Kg	— Б	Prepared 11/02/21 16:07	Analyzed 11/03/21 13:36	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)		U		MDL		в			
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.8	U	49.8	MDL	mg/Kg	Б	11/02/21 16:07	11/03/21 13:36	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.8 <49.8	U U	49.8	MDL	mg/Kg	Б	11/02/21 16:07 11/02/21 16:07	11/03/21 13:36 11/03/21 13:36	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.8 <49.8 <49.8	U U	49.8 49.8 49.8	MDL	mg/Kg	Б	11/02/21 16:07 11/02/21 16:07 11/02/21 16:07	11/03/21 13:36 11/03/21 13:36 11/03/21 13:36	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.8 <49.8 <49.8 %Recovery	U U	49.8 49.8 49.8 <i>Limits</i>	MDL	mg/Kg		11/02/21 16:07 11/02/21 16:07 11/02/21 16:07 Prepared	11/03/21 13:36 11/03/21 13:36 11/03/21 13:36 Analyzed	1 1 1 <i>Dil Fac</i>
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.8 <49.8 <49.8 <49.8 **Recovery 107 112	U U U Qualifier	49.8 49.8 49.8 Limits 70 - 130	MDL	mg/Kg	U	11/02/21 16:07 11/02/21 16:07 11/02/21 16:07 Prepared 11/02/21 16:07	11/03/21 13:36 11/03/21 13:36 11/03/21 13:36 Analyzed 11/03/21 13:36	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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 <49.8 <49.8 **Recovery 107 112 **pomatography -	U U U Qualifier	49.8 49.8 49.8 Limits 70 - 130		mg/Kg	<u>U</u>	11/02/21 16:07 11/02/21 16:07 11/02/21 16:07 Prepared 11/02/21 16:07	11/03/21 13:36 11/03/21 13:36 11/03/21 13:36 Analyzed 11/03/21 13:36	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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Lab Sample ID: 890-1502-46

Client Sample Results

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	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	1
		O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result <50.0	Qualifier	RL 50.0	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/05/21 13:50	
Total TPH	<50.0	Qualifier U		MDL		<u>D</u>	Prepared		
Total TPH Method: 8015B NM - Diesel Ran	<50.0	Qualifier U				<u>D</u> 	Prepared Prepared		1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<50.0	Qualifier U RO) (GC) Qualifier	50.0		mg/Kg	=	<u> </u>	11/05/21 13:50	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	Qualifier U RO) (GC) Qualifier U	50.0		mg/Kg	=	Prepared	11/05/21 13:50 Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0 ge Organics (Di Result <50.0	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0		mg/Kg Unit mg/Kg	=	Prepared 11/02/21 16:07	11/05/21 13:50 Analyzed 11/03/21 13:57	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 ge Organics (Di Result <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 11/02/21 16:07 11/02/21 16:07	11/05/21 13:50 Analyzed 11/03/21 13:57 11/03/21 13:57	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 (D) Result <50.0 <50.0 <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 11/02/21 16:07 11/02/21 16:07	Analyzed 11/03/21 13:57 11/03/21 13:57 11/03/21 13:57	Dil Face 1 1 1 Dil Face
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	<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 11/02/21 16:07 11/02/21 16:07 11/02/21 16:07 Prepared	Analyzed 11/03/21 13:57 11/03/21 13:57 11/03/21 13:57 Analyzed	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 1-Chlorooctane	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 <60.0 *Recovery 106 107	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 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 13:57 11/03/21 13:57 11/03/21 13:57 Analyzed 11/03/21 13:57	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	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 <50.0 <70.0 %Recovery 106 107 omatography -	Qualifier 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 11/02/21 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 13:57 11/03/21 13:57 11/03/21 13:57 Analyzed 11/03/21 13:57	Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac 1 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

Client Sample ID: BH-47 (15) Lab Sample ID: 890-1502-47 Date Collected: 10/27/21 00:00

Matrix: Solid

Sample Depth: 15

Date Received: 10/29/21 12:45

Method: 8021B - Volatile Or	ganic Compo	ounds (GC)	(Continued)
motifical coals Tolatile Ci	gaine comp.	Julius (55)	(Continuou,

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

Mathod:	Total RTFY	- Total BTEX	Calculation
mictilou.	TOTAL DIEN	- IUIUI DI LA	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 (DRO) (GO	2)

Analyte	Result	Qualifier	RL	MDL	Unit	ı	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		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	<49.8	U	49.8		mg/Kg		11/02/21 16:07	11/03/21 14:18	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		11/02/21 16:07	11/03/21 14:18	1
C10-C28)									
Oll 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	DII Fac
1-Chlorooctane	98		70 - 130	11/02/21 16:07	11/03/21 14:18	1
o-Terphenyl	102		70 - 130	11/02/21 16:07	11/03/21 14:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	122		4.98		mg/Kg			11/08/21 05:00	1

Client Sample ID: BH-48 (15)

Date Collected: 10/27/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 15

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 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

Mothod:	Total RTF	Y - Total R	TFX Calculatio	n

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

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

Lab Sample ID: 890-1502-48

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) **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	<0.00199	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 BTE	(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	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 15:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 15:00	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 15:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				11/02/21 16:07	11/03/21 15:00	1
o-Terphenyl	106		70 ₋ 130				11/02/21 16:07	11/03/21 15:00	1

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) Lab Sample ID: 890-1502-50 Matrix: Solid

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Method: 8021B - Volatile Organic	Compounds (GC)							
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	•
Toluene	0.0176		0.00198		mg/Kg		11/01/21 12:11	11/04/21 06:24	
Ethylbenzene	0.00625		0.00198		mg/Kg		11/01/21 12:11	11/04/21 06:24	
m-Xylene & p-Xylene	0.0231		0.00396		mg/Kg		11/01/21 12:11	11/04/21 06:24	
o-Xylene	0.0350		0.00198		mg/Kg		11/01/21 12:11	11/04/21 06:24	
Xylenes, Total	0.0581		0.00396		mg/Kg		11/01/21 12:11	11/04/21 06:24	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	11591	S1+	70 - 130				11/01/21 12:11	11/04/21 06:24	
1,4-Difluorobenzene (Surr)	65	S1-	70 - 130				11/01/21 12:11	11/04/21 06:24	
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	0.103		0.00396		mg/Kg			11/09/21 10:40	
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			11/05/21 13:50	
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	49.9		mg/Kg		11/02/21 16:07	11/03/21 15:21	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 15:21	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 15:21	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	114		70 - 130				11/02/21 16:07	11/03/21 15:21	
o-Terphenyl	119		70 - 130				11/02/21 16:07	11/03/21 15:21	
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa

Lab Sample ID: 890-1502-51

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	-
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 08:10	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 08:10	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:11	11/04/21 08:10	
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:11	11/04/21 08:10	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 12:11	11/04/21 08:10	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	112		70 - 130				11/01/21 12:11	11/04/21 08:10	
1,4-Difluorobenzene (Surr)	199	S1+	70 - 130				11/01/21 12:11	11/04/21 08:10	
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00400	U	0.00400		mg/Kg			11/09/21 10:40	
_	•		DI	MDI	Unit	ь	Propared	Analyzod	Dil Ea
Method: 8015 NM - Diesel Range Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/05/21 13:50	Dil Fa
Analyte Total TPH	Result <49.9	Qualifier U			mg/Kg	-	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Result <49.9 Ge Organics (DI Result	Qualifier U RO) (GC) Qualifier	49.9		mg/Kg	<u>D</u>	Prepared	11/05/21 13:50 Analyzed	Dil Fa
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 Fa
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	Qualifier U RO) (GC) Qualifier U	49.9		mg/Kg	-	Prepared	11/05/21 13:50 Analyzed	Dil Fa
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 (DI 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 16:03	Dil Fa
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		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 Fa
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		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 Fa
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	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 Fa
Analyte	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 11/02/21 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	
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	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 16:03 11/03/21 16:03 11/03/21 16:03 Analyzed 11/03/21 16:03	Dil Fa

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	1

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1502-52

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

Lab Sample ID: 890-1502-52

Client Sample ID: BH-52 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

_ab	Sar	npı	e IL): 8	90-1	1504	2-52

Lab Sample ID: 890-1502-53

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

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	1	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 (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 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		11/02/21 16:07	11/03/21 16:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 16:24	1
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	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	_	11/02/21 16:07	11/03/21 16:24	1
o-Terphenyl	103		70 - 130		11/02/21 16:07	11/03/21 16:24	1

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)

Sample Depth: 15

Date Collected: 10/27/21 00:00	Matrix: Solid
Date Received: 10/29/21 12:45	

Method: 8021B - Volatile Organic Compounds (GC)

Wethou. 002 ID - Volatile Orga	inc compounds	(00)							
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

Method: Total BTEX - Total BTEX Calculation
I WEIDOO: TOTAL DIEA - TOTAL DIEA CATCULATION

Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00403	U	0.00403		ma/Ka				11/09/21 10:40	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/			11/05/21 13:50	1

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

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Client Sample ID: BH-53 (15)

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 16:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 16:46	1
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	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-1502-54 Client Sample ID: BH-54 (15) **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		11/01/21 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	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 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
			70 - 130				11/02/21 16:07	11/03/21 17:07	1

Lab Sample ID: 890-1502-54

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-54 (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	508		5.01		mg/Kg			11/08/21 06:09	1	

Client Sample ID: BH-55 (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 Fa
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:11	11/04/21 09:54	
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	•
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:11	11/04/21 09:54	,
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 BTE)	(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	•	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 16:07	11/03/21 17:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/02/21 16:07	11/03/21 17:28	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		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 Chro	omatography -	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 BTE	X 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 Total TPH		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH									
-	<49.8	U	49.8		mg/Kg			11/05/21 13:50	1
- -			49.8		mg/Kg				
Method: 8015B NM - Diesel Ran	ge Organics (D		49.8 RL	MDL			Prepared		
Method: 8015B NM - Diesel Ran Analyte	ge Organics (D	RO) (GC) Qualifier		MDL		D	Prepared 11/02/21 16:07	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>		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 <49.8	RO) (GC) Qualifier U	RL 49.8	MDL	Unit mg/Kg	<u>D</u>	11/02/21 16:07	11/05/21 13:50 Analyzed 11/03/21 17:49	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <49.8	RO) (GC) Qualifier U	RL 49.8	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/02/21 16:07 11/02/21 16:07	11/05/21 13:50 Analyzed 11/03/21 17:49 11/03/21 17:49	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 <49.8 <49.8	RO) (GC) Qualifier U	RL 49.8 49.8 49.8	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/02/21 16:07 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	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 <49.8 <49.8 <49.8	RO) (GC) Qualifier U	## ## ## ## ## ## ## ## ## ## ## ## ##	MDL	Unit mg/Kg mg/Kg	D	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
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 <49.8 <49.8 <49.8	RO) (GC) Qualifier U U Qualifier	RL 49.8 49.8 49.8 49.8 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	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 11/03/21 17:49 Analyzed 11/03/21 17:49	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 <49.8 <49.8 <49.8 **Recovery 106 113 omatography -	RO) (GC) 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>	11/02/21 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 11/03/21 17:49 Analyzed 11/03/21 17:49	Dil Fac

Client Sample ID: BH-57 (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		11/04/21 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	

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Lab Sample ID: 890-1502-57

Client: Tetra Tech, Inc.
Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

Client Sample ID: BH-57 (15)
Date Collected: 10/27/21 00:00

Lab Sample ID: 890-1502-57

Lab Sample ID: 890-1502-58

Matrix: Solid

Date Received: 10/29/21 12:45

Matrix: Solid

Sample Depth: 15

Method: 8021B -	Volatile Ord	anic Com	nounds ((GC) ((Continued)	
Method. 002 1D -	Voiatile Oit		poullus (5 0, (Continueu	

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

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 (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 Organics (DRO) (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 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

Surrogate	%Recovery Qualifier	Limits	Prepared	Anaryzea	DII Fac
1-Chlorooctane	99	70 - 130	11/02/21 16:07	11/03/21 18:11	1
o-Terphenyl	102	70 - 130	11/02/21 16:07	11/03/21 18:11	1
_					

Method: 300.0 - Anions, Ion Chromatography - Soluble	Method: 300.0) - Anions, ion	Chromatography - Soluble
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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

Mothod: 9021D	Volatile Organie	Compounds (GC)
I WIELIIOU. OUZ ID '	- voiatile Organic	Compounds (GC)

Motifica. Coz ID Volutilo Orga	ino compounds	(33)							
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:	Total	RTFX	- Total	RTFX	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

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			11/05/21 13:50	1

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

Lab Sample ID: 890-1502-58

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
OII 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							
		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	NL.	WIDL	Ollit		riepaieu	Allalyzeu	Diriac

Client Sample ID: BH-59 (15) Lab Sample ID: 890-1502-59 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		11/04/21 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 (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		11/02/21 16:07	11/03/21 18:53	1
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/02/21 16:07	11/03/21 18:53	1
C10-C28)									
Oll 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

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11/10/2021

Client Sample ID: BH-59 (15)

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

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

Method: 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Dil Fac Analyte RL MDL Unit D Prepared Analyzed 24.9 11/08/21 07:18 Chloride 1760 mg/Kg

Client Sample ID: BH-60 (15) Lab Sample ID: 890-1502-60 **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	<0.00199	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	D:: E-
								,y=0 a	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		11/02/21 16:07	11/03/21 19:15	— DII Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.8 <49.8		49.8		mg/Kg mg/Kg		11/02/21 16:07		
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)		U						11/03/21 19:15	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.8	U U	49.8		mg/Kg		11/02/21 16:07	11/03/21 19:15 11/03/21 19:15	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	<49.8 <49.8	U U	49.8 49.8		mg/Kg		11/02/21 16:07 11/02/21 16:07	11/03/21 19:15 11/03/21 19:15 11/03/21 19:15	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.8 <49.8 %Recovery	U U	49.8 49.8 <i>Limits</i>		mg/Kg		11/02/21 16:07 11/02/21 16:07 Prepared	11/03/21 19:15 11/03/21 19:15 11/03/21 19:15 4nalyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	<49.8 <49.8 %Recovery 88 87	U U Qualifier	49.8 49.8 Limits 70 - 130		mg/Kg		11/02/21 16:07 11/02/21 16:07 Prepared 11/02/21 16:07	11/03/21 19:15 11/03/21 19:15 11/03/21 19:15 Analyzed 11/03/21 19:15	Dil Fac
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 <49.8 **Recovery 88 87 Domatography -	U U Qualifier	49.8 49.8 Limits 70 - 130	MDL	mg/Kg mg/Kg	D	11/02/21 16:07 11/02/21 16:07 Prepared 11/02/21 16:07	11/03/21 19:15 11/03/21 19:15 11/03/21 19:15 Analyzed 11/03/21 19:15	Dil Fac

Lab Sample ID: 890-1502-61

Client Sample Results

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

Analyte	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	1
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	1
o-Xylene	< 0.00199	U F1 F2	0.00199		mg/Kg		11/01/21 12:13	11/03/21 05:47	1
Xylenes, Total	<0.00398	U F1 F2	0.00398		mg/Kg		11/01/21 12:13	11/03/21 05:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				11/01/21 12:13	11/03/21 05:47	1
1,4-Difluorobenzene (Surr)	99		70 - 130				11/01/21 12:13	11/03/21 05:47	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			11/09/21 10:40	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Duamanad		
<u> </u>				IVIDE	Oilit	ט	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	- INDL	mg/Kg	_ =	Prepared	11/05/21 13:50	
Total TPH - - Method: 8015B NM - Diesel Ranç									
- -	ge Organics (D			MDL	mg/Kg	<u>D</u>	Prepared		1
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)	49.9		mg/Kg	=		11/05/21 13:50	1 Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D Result <49.9	RO) (GC) Qualifier	49.9		mg/Kg	=	Prepared	11/05/21 13:50 Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D Result <49.9	RO) (GC) Qualifier UF1F2 UF1F2	49.9 RL 49.9		mg/Kg Unit mg/Kg	=	Prepared 11/03/21 10:38	11/05/21 13:50 Analyzed 11/03/21 21:06	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 UF1 F2 UF1 F2	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/03/21 10:38	11/05/21 13:50 Analyzed 11/03/21 21:06 11/03/21 21:06	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 UF1F2 UF1F2	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/03/21 10:38 11/03/21 10:38	Analyzed 11/03/21 21:06 11/03/21 21:06	Dil Fac 1 1 Dil Fac 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) Surrogate	ge Organics (D Result <49.9 <49.9 <49.9 %Recovery	Qualifier UF1F2 UF1F2 UGUALIFIER	49.9 RL 49.9 49.9 49.9 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 21:06 11/03/21 21:06 11/03/21 21:06 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** 50 34	RO) (GC) Qualifier U F1 F2 U F1 F2 U Qualifier S1- S1-	49.9 RL 49.9 49.9 49.9 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 21:06 11/03/21 21:06 11/03/21 21:06 Analyzed 11/03/21 21:06	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 50 34 omatography -	RO) (GC) Qualifier U F1 F2 U F1 F2 U Qualifier S1- S1-	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg 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 21:06 11/03/21 21:06 11/03/21 21:06 Analyzed 11/03/21 21:06	Dil Fac Dil Fac 1 Dil Fac 1 Dil Fac 1 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	

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Lab Sample ID: 890-1502-62

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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-62 (15) Lab Sample ID: 890-1502-62 Date Collected: 10/27/21 00:00

Matrix: Solid

Sample Depth: 15

Date Received: 10/29/21 12:45

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	103	70 - 130	11/01/21 12:13	11/03/21 06:08	1

Method: Total	BTFX - Total	BTEX Calculation
mothiod: rotal		DIE/ Guidalation

Analyte	Result	Qualifier	RL	MDL	Unit	1	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00403	U	0.00403		mg/Kg			_	11/09/21 10:40	1

П				
ı	Method: 8015 NM	Diocal Rand	no Organice	(DRO) (GC)

Analyte	Result Quali	tier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	ma/Ka			11/05/21 13:50	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	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/03/21 22:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/03/21 22:16	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/03/21 22:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	11/03/21 10:38	11/03/21 22:16	1
o-Terphenyl	90		70 - 130	11/03/21 10:38	11/03/21 22:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Un	it D	Prepared	Analyzed	Dil Fac
Chloride	1480	25.2	mg	g/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

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	<0.00199	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

Mothod:	Total RT	Y - Total I	RTEY Ca	lculation

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	<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: 890-1502-63

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
					mg/Kg			11/08/21 07:49	

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	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		11/03/21 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
OII 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

Lab Sample ID: 890-1502-64

Client Sample ID: BH-64 (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 Dil Fac Prepared Analyzed 24.9 11/08/21 07:56 Chloride 2760 mg/Kg

Client Sample ID: BH-65 (15) Lab Sample ID: 890-1502-65 **Matrix: Solid**

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 15

Analyte

Gasoline Range Organics

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

Total BTEX	<0.00396	U	0.00396		mg/Kg			11/09/21 10:40	1
— Method: 8015 NM - Diesel Range O	rganics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			11/05/21 13:50	1
_									
Method: 8015B NM - Diesel Range	Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

49.8

MDL Unit

mg/Kg

Prepared

11/03/21 10:38

Analyzed

11/03/21 23:21

Result Qualifier

<49.8 U

(GRO)-C6-C10							
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg	11/03/21 10:38	11/03/21 23:21	1
C10-C28)							
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg	11/03/21 10:38	11/03/21 23:21	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130		11/03/21 10:38	11/03/21 23:21	1
o-Terphenyl	107		70 - 130		11/03/21 10:38	11/03/21 23:21	1

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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Dil Fac

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 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	1
A I 4 -									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result <50.0			MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/05/21 13:50	
Total TPH	<50.0	U		MDL		<u>D</u>	Prepared		
Total TPH Method: 8015B NM - Diesel Ran	<50.0	U				D	Prepared		1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<50.0	RO) (GC) Qualifier	50.0		mg/Kg			11/05/21 13:50	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	RO) (GC) Qualifier	50.0		mg/Kg		Prepared	11/05/21 13:50 Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0 ge Organics (D 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 (D) 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 11/03/21 10:38	11/05/21 13:50 Analyzed 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)	<50.0 ge Organics (D) 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 Face
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	<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 Range 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 <80.0 *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 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	<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

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

Released to Imaging: 9/1/2023 3:25:35 PM

Lab Sample ID: 890-1502-67

Lab Sample ID: 890-1502-68

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-67 (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)
	atilo organio coi		, (-

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100	70 - 130	11/01/21 12:13	11/03/21 07:50	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	<0.00397	U	0.00397	mg/Kg			11/09/21 10:40	1

Method: 8015 NM - Diesel	Danga Organica		
i welliou, ou la min - Diesei	Range Organics	ונטאטו	901

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 Discol	Dange Ore	aaniee (DD()) (CC)
MICHIOU. OU IOD	INIVI - DIESEI	Rallue Oli	ualiics lunc	JI (GC)

Analyte	Result	Qualifier	RL	MDL U	nit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	m	ng/Kg		11/03/21 10:38	11/04/21 00:02	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8	m	ng/Kg		11/03/21 10:38	11/04/21 00:02	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	m	ng/Kg		11/03/21 10:38	11/04/21 00:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				11/03/21 10:38	11/04/21 00:02	1

1-Chlorooctane	102	70 - 130	
o-Terphenyl	110	70 - 130	

o-Terphenyl	110	70 - 130	11/03/21 10:38	11/04/21 00:02	1
Method: 300.0 - Anions, Ion Chromatogra	aphy - Soluble				

Allalyte		Zuaiiilei	KL	MDL UIII	U	Frepareu	Allalyzeu	DII Fac
Chloride	854		4.98	mg/Kg		_	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

Method: 8021B - Volatile Organic Co	mnolinas ((=(.)

Michiga ouz ID - 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 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

Method: Tot	al RTFY -	Total RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	I	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 (DI	RO) (GC)
ı	Michiga. 00 to Min - Diese	i italige Organica (Di	10,100,

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 Sample Results

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	<50.0	U	50.0		mg/Kg		11/03/21 10:38	11/04/21 00:23	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/03/21 10:38	11/04/21 00:23	1
C10-C28)									
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

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
	114		70 ₋ 130				11/03/21 10:38	11/04/21 00:44	

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Lab Sample ID: 890-1502-69

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-69 (15)

Date Collected: 10/28/21 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
l	Chloride	632		4.99		mg/Kg			11/08/21 09:44	1

Client Sample ID: BH-70 (15) Lab Sample ID: 890-1502-70 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	<0.00199	U	0.00199		mg/Kg		11/01/21 12:13	11/03/21 08:51	
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:13	11/03/21 08:51	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:13	11/03/21 08:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:13	11/03/21 08:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:13	11/03/21 08:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:13	11/03/21 08:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130				11/01/21 12:13	11/03/21 08:51	1
1,4-Difluorobenzene (Surr)	102		70 - 130				11/01/21 12:13	11/03/21 08:51	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 Analyte Total TPH	•	Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/05/21 13:50	Dil Fac
Mathadi 2045D NIM Disaal Daw	na Omnaniaa (Di	DO) (CC)							
Method: 8015B NM - Diesel Rang Analyte		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 01:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 01:05	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 01:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				11/03/21 10:38	11/04/21 01:05	1
o-Terphenyl	103		70 - 130				11/03/21 10:38	11/04/21 01:05	1
Method: 300.0 - Anions, Ion Chr	• • •								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	921		4.97		mg/Kg			11/08/21 10:07	1

Released to Imaging: 9/1/2023 3:25:35 PM

Lab Sample ID: 890-1502-71

Client Sample Results

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 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
Analyte Total TPH		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TDLI									
10(d) 1FF1 -	<49.9	U	49.9		mg/Kg			11/05/21 13:50	
- -			49.9		mg/Kg			11/05/21 13:50	
: Method: 8015B NM - Diesel Ran	ge Organics (D		49.9 RL	MDL			Prepared	11/05/21 13:50 Analyzed	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier		MDL		D	Prepared 11/03/21 10:38		1
- -	ge Organics (D	RO) (GC) Qualifier	RL	MDL	Unit	<u>D</u>		Analyzed	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 U	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	11/03/21 10:38	Analyzed 11/04/21 01:48	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	RL 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/03/21 10:38	Analyzed 11/04/21 01:48	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)	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>	11/03/21 10:38 11/03/21 10:38 11/03/21 10:38	Analyzed 11/04/21 01:48 11/04/21 01:48 11/04/21 01:48	Dil Face 1 1 1 Dil Face
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	RO) (GC) Qualifier U	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 11/04/21 01:48 11/04/21 01:48 11/04/21 01:48 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 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>	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 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 99 107 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>	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

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	1

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Lab Sample ID: 890-1502-72

Job ID: 890-1502-1

Client: Tetra Tech, Inc.
Project/Site: Kaiser SWD

Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-72 (15)

Lab Sample ID: 890-1502-72

Date Collected: 10/28/21 00:00
Date Received: 10/29/21 12:45

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)	103	70 - 130	11/01/21 12:13	11/03/21 11:00	1

Mathad:	Total	RTFY.	. Total	RTEY	Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	ma/Ka			11/09/21 10:40	1

П				
ı	Method: 8015 NM	Diocal Rand	no Organice	(DRO) (GC)

Analyte	Result Qualifi	ier 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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_ A	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
0	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)									
(Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 10:38	11/04/21 02:09	1
S	Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	76Recovery Qualifier	LIIIIIIS		Frepareu	Allalyzeu	DII Fac
1-Chlorooctane	115	70 - 130	1	1/03/21 10:38	11/04/21 02:09	1
o-Terphenyl	128	70 - 130	1	1/03/21 10:38	11/04/21 02:09	1
_						

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	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: 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		11/01/21 12:13	11/03/21 11:21	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:13	11/03/21 11:21	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:13	11/03/21 11:21	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/01/21 12:13	11/03/21 11:21	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/01/21 12:13	11/03/21 11:21	1
Xylenes, Total	<0.00403	U	0.00403		mg/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

Method:	Total R	TFY - T	ntal RT	FX Calcu	ılation

Analyte	Result	Qualifier	RL	MDL	Unit	I	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00403	U	0.00403		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	58.5	49.9	mg/Kg			11/05/21 13:50	1

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Lab Sample ID: 890-1502-73

Matrix: Solid

2

3

4

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12

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Lab Sample ID: 890-1502-73

Lab Sample ID: 890-1502-74

Matrix: Solid

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)

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	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	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 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
o-Terphenyl	102		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

Lab Sample ID: 890-1502-74

Matrix: Solid

Client Sample ID: BH-74 (15) Date Collected: 10/28/21 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	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

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

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 Range	Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

MDL Unit

Prepared

Analyzed

Result Qualifier

Gasoline Range Organics	<50.0	U	50.0	mg/Kg	11/03/21 10:38	11/04/21 03:14	1
(GRO)-C6-C10							
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg	11/03/21 10:38	11/04/21 03:14	1
C10-C28)							
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 Chron	natography -	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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Dil Fac

Lab Sample ID: 890-1502-76

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-76 (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 12:22	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 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
Method: 8015 NM - Diesel Range	Organice (DD	o) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	П							
-		U	49.8		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Ran			49.8		mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Ran Analyte	ge Organics (D		49.8 RL	MDL		D	Prepared	11/05/21 13:50 Analyzed	
Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier		MDL		<u>D</u>	Prepared 11/03/21 10:38		Dil Fac
	ge Organics (D	RO) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	<u> </u>	Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D Result <49.8	RO) (GC) Qualifier U	RL	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)	ge Organics (D Result <49.8	RO) (GC) Qualifier U	RL 49.8	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/03/21 10:38	Analyzed 11/04/21 03:36	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D Result <49.8 <49.8	RO) (GC) Qualifier U	RL 49.8 49.8 49.8	MDL	Unit mg/Kg mg/Kg	<u> </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	ge Organics (D Result <49.8 <49.8 <49.8	RO) (GC) Qualifier U	RL 49.8 49.8 49.8 <i>Limits</i>	MDL	Unit mg/Kg mg/Kg	<u> </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	ge Organics (D Result <49.8 <49.8 <49.8	RO) (GC) Qualifier U U Qualifier	RL 49.8 49.8 49.8 49.8 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 11/04/21 03:36 11/04/21 03:36 11/04/21 03:36 Analyzed 11/04/21 03:36	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 <49.8 <49.8 <49.8	RO) (GC) 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 Fac 1 1 Dil Fac 1 Dil Fac

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

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1

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

Lab Sample ID: 890-1502-77

Lab Sample ID: 890-1502-78

Matrix: Solid

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

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

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	0	0.00399		mg/Kg		_	11/09/21 10:40	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			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	<49.9	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

Surrogate	%Recovery Qualifier	Limits	Prepared	Anaiyzea	DII Fac
1-Chlorooctane	99	70 - 130	11/03/21 10:38	11/04/21 03:57	1
o-Terphenyl	105	70 - 130	11/03/21 10:38	11/04/21 03:57	1
_					

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1430		24.9		mg/Kg			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

Method:	Total RTF	X - Total RTFX	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit)	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	Method: 8015 NM -	- Diesel Range	Organics (DRO)	(GC
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Analyte	Result	Qualifier	RL	MDL Uni	it	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg.	/Kg			11/05/21 13:50	1

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: 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

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
Chloride	426		4.95		mg/Kg			11/08/21 11:39	

Lab Sample ID: 890-1502-79 Client Sample ID: BH-79 (15)

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	<0.00202	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		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 Rand	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		11/03/21 10:38	11/04/21 04:40	1
Diesel Range Organics (Over	<49.9	П	49.9		mg/Kg		11/03/21 10:38	11/04/21 04:40	1
C10-C28)	40.0	O	40.0		mg/rtg		11/00/21 10:00	11/04/21 04.40	
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
Surrogate 1-Chlorooctane		Qualifier	<u>Limits</u> 70 - 130				Prepared 11/03/21 10:38	Analyzed 11/04/21 04:40	Dil Fac

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11/04/21 04:40

11/03/21 10:38

70 - 130

103

o-Terphenyl

Lab Sample ID: 890-1502-79

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

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

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	1	

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 Fac
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	1
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	1
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 BTE)	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
Analyte Total TPH		Qualifier U	49.8 —	MDL	mg/Kg	<u>D</u>	Prepared	Analyzed 11/05/21 13:50	Dil Fac
Method: 8015B NM - Diesel Rang									
Analyte		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
o-Terphenyl	122		70 - 130				11/03/21 10:38	11/04/21 05:01	1
Method: 300.0 - Anions, Ion Chro	• • •								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	609		5.01		mg/Kg			11/08/21 11:54	1

Lab Sample ID: 890-1502-81

Client Sample Results

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	
Toluene	<0.00199	U F2 F1	0.00199		mg/Kg		11/01/21 12:16	11/03/21 17:55	•
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	,
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 BTEX	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
Method: 8015 NM - Diesel Range			DI	MDI	Unit	n	Dropared	Analyzod	Dil Ea
Analyte	Result	Qualifier	RL	MDL	Unit ma/Ka	<u>D</u>	Prepared	Analyzed	
		Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/05/21 13:50	
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 RO) (GC) Qualifier	49.9			D	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		<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	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	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 11/03/21 11:37	11/05/21 13:50 Analyzed 11/04/21 11:05	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 11:37 11/03/21 11:37	11/05/21 13:50 Analyzed 11/04/21 11:05 11/04/21 11:05	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 11:37 11/03/21 11:37	Analyzed 11/04/21 11:05 11/04/21 11:05 11/04/21 11:05	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 <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 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
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 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
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	MDL	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	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	1

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Lab Sample ID: 890-1502-82

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 Compounds	(GC) (Continued)
Method. 002 1D - Volatile Organic Compounds	(OO) (Oolillillided)

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

Mathad.	Total DTCV	Total DTEV	Coloulation
wethou.	IUIAI DIEA	- 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 (DRO) (GO	2)

Analyte	Result Qualifi	ier 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 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	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 12:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 12:11	1
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

$\label{eq:method:method:method:method:one} \textbf{Method: 300.0 - Anions, lon Chromatography - Soluble}$

Analyte	Result	Qualifier	RL	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)

michiod. 002 ID - Volutile Orga	inc compounds	(30)							
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 18:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 18:36	1
Ethylbenzene	0.00427		0.00200		mg/Kg		11/01/21 12:16	11/03/21 18:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:16	11/03/21 18:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 18:36	1
Xylenes, Total	<0.00400	U	0.00400		mg/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

Mothod:	Total RTFX	- Total RTFX	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00427		0.00400		mg/Kg			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

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2

4

5

7

4.0

111

13

14

onoo, oanobac

Lab Sample ID: 890-1502-83

Lab Sample ID: 890-1502-84

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-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)									
OII 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
	775		5.05		mg/Kg			11/08/21 12:17	

Client Sample ID: BH-84 (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 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	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		11/03/21 11:37	11/04/21 12:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/21 11:37	11/04/21 12:55	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/21 11:37	11/04/21 12:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				11/03/21 11:37	11/04/21 12:55	1

Lab Sample ID: 890-1502-84

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: BH-84 (15)

Date Collected: 10/28/21 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	710		4.99		mg/Kg			11/08/21 12:25	1

Client Sample ID: BH-85 (15)

Date Collected: 10/28/21 00:00

Lab Sample ID: 890-1502-85

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	<0.00199	U	0.00199		mg/Kg		11/01/21 12:16	11/03/21 19:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:16	11/03/21 19:17	1
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	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				11/01/21 12:16	11/03/21 19:17	1
1,4-Difluorobenzene (Surr)	110		70 - 130				11/01/21 12:16	11/03/21 19:17	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 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 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 11:37	11/04/21 13:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/03/21 11:37	11/04/21 13:16	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/03/21 11:37	11/04/21 13:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				11/03/21 11:37	11/04/21 13:16	1
o-Terphenyl	106		70 - 130				11/03/21 11:37	11/04/21 13:16	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
,									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-1502-86

Client Sample Results

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 BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range	•	O) (GC) Qualifier	RL	MDI	Unit	D	Propaged	Analyzod	Dil Fac
Analyte				MDL		— Б	Prepared	Analyzed	
Total TPH	<50.0	U	50.0		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	<50.0	U	50.0		mg/Kg		11/03/21 11:37	11/04/21 13:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/21 11:37	11/04/21 13:38	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/21 11:37	11/04/21 13:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				11/03/21 11:37	11/04/21 13:38	1
o-Terphenyl	110		70 - 130				11/03/21 11:37	11/04/21 13:38	1
Method: 300.0 - Anions, Ion Chro	•								
		O 1:C				_			B.: E
Analyte	Result	Qualifier		MDL	mg/Kg	D	Prepared	Analyzed 11/09/21 13:15	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	

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1502-87

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 Organic	Compounds	(GC)	(Continued)
Michiga, 002 1D	· voiatile Organic	Compounds		(Continueu)

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

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	< 0.00399	U	0.00399		mg/Kg		_	11/09/21 10:40	1

Method: 8015 NM - Diesel Range Organics	IUKU	11661

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 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		11/03/21 11:37	11/04/21 13:59	1
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

1-Chlorooctane	93	70 - 130
o-Terphenyl	110	70 - 130

Method: 300.0 - Anions, Ion Chro	omatography - Soluble						
Analyto	Posult Qualifier	DI	MDI Unit	n	Dropared	Analyzod	Dil Eac

Allalyte	Resuit	Qualifier	KL	MDL OIII	U	Prepareu	Analyzeu	DII Fac
Chloride	1500		5.00	mg/Kg			11/09/21 13:22	1

Client Sample ID: BH-88 (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 20:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 20:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 20:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:16	11/03/21 20:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:16	11/03/21 20:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/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	0)	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00400	U	0.00400		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	<50.0 U	50.0	mg/Kg			11/08/21 15:54	1

Lab Sample ID: 890-1502-88

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

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)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/21 11:37	11/04/21 14:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				11/03/21 11:37	11/04/21 14:20	1
o-Terphenyl	108		70 - 130				11/03/21 11:37	11/04/21 14:20	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			25.2		mg/Kg			11/09/21 13:30	5

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

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 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
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 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	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	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
OII 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			70 - 130				11/03/21 11:37	11/04/21 14:41	1

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

Lab Sample ID: 890-1502-90

Analyzed

11/09/21 10:40

11/04/21 15:03

Dil Fac

Matrix: Solid

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2630		24.9		mg/Kg			11/09/21 13:38	5

Client Sample ID: BH90 (RS) (6)

Method: Total BTEX - Total BTEX Calculation

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 6

Analyte

Total BTEX

C10-C28)

Diesel Range Organics (Over

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 20:59	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:16	11/03/21 20:59	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:16	11/03/21 20:59	1
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	1
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: 8015 NM - Diesel Ran	ge 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	nge Organics (DI	RO) (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 15:03	1
(GRO)-C6-C10									

0.00402

MDL Unit

mg/Kg

mg/Kg

Prepared

11/03/21 11:37

Result Qualifier

<0.00402 U

<49.9 U

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

49.9

Method: 300.0 - Anions, Ion Chroma	atography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	107		4.95		mg/Kg			11/09/21 14:01	1

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

	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	1
Toluene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:16	11/03/21 22:48	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:16	11/03/21 22:48	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/01/21 12:16	11/03/21 22:48	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/01/21 12:16	11/03/21 22:48	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/01/21 12:16	11/03/21 22:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				11/01/21 12:16	11/03/21 22:48	1
1,4-Difluorobenzene (Surr)	111		70 - 130				11/01/21 12:16	11/03/21 22:48	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	1
Method: 8015 NM - Diesel Range	•								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result <49.9		RL 49.9	MDL	mg/Kg	<u>D</u>	Prepared	Analyzed 11/08/21 15:54	
Analyte Total TPH Method: 8015B NM - Diesel Ranç	<49.9	U		MDL		<u>D</u>	Prepared		
Total TPH Method: 8015B NM - Diesel Ranç	<49.9	U				D	Prepared Prepared		1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<49.9	(C) (GC) Qualifier	49.9		mg/Kg	<u> </u>		11/08/21 15:54	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	COO (GC) Qualifier U	49.9		mg/Kg	<u> </u>	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 C10-C28)	<pre>c<49.9 ge Organics (D) Result c<49.9</pre>	RO) (GC) Qualifier U	49.9 RL 49.9		mg/Kg Unit mg/Kg	<u> </u>	Prepared 11/03/21 11:37	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) Oll Range Organics (Over C28-C36)	<49.9 ge Organics (Display="2">Result <49.9	CO (GC) Qualifier U U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 11/03/21 11:37 11/03/21 11:37	11/08/21 15:54 Analyzed 11/04/21 15:46 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) Oll Range Organics (Over C28-C36) Surrogate	<49.9 ge Organics (Digital Result content for the second c	CO (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 11/03/21 11:37 11/03/21 11:37	11/08/21 15:54 Analyzed 11/04/21 15:46 11/04/21 15:46 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	49.9 ge Organics (Digital Result states and states are states as a second result states are states as a second result	CO (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 11/03/21 11:37 11/03/21 11:37 11/03/21 11:37 Prepared	Analyzed 11/04/21 15:46 11/04/21 15:46 11/04/21 15:46 Analyzed	Dil Fac
Total TPH	49.9 ge Organics (D) Result <49.9 <49.9 <89.9 %Recovery 92 107	CO (GC) Qualifier U U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg	<u> </u>	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 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 92 107 omatography -	CO (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	<u> </u>	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 15:46 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

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	11/03/21 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	1

Eurofins Xenco, Carlsbad

11/10/2021

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-1502-1

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

Lab Sample ID: 890-1502-93

Matrix: Solid

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery Qualifie	er Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	122	70 - 130	11/01/21 12:16	11/03/21 23:09	1

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	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total TPH	 331		49.9		mg/Kg	 		11/08/21 15:54	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		11/03/21 11:37	11/04/21 16:07	1
(GRO)-C6-C10									
Diesel Range Organics (Over	331		49.9		mg/Kg		11/03/21 11:37	11/04/21 16:07	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 16:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

1-Chlorooctane	90	70 - 130	11/03/21 11:37	11/04/21 16:07	1
o-Terphenyl	106	70 - 130	11/03/21 11:37	11/04/21 16:07	1

Method: 300.0 - Anions, Ion Chromatography - 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)

Date Collected: 10/25/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 0 - 6

Method: 8021B - Volatile Organic Compounds (GC)			
	Mothod: 9021D	Volatile Organie	Compounde (CC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	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 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 - Diese	Dongo Organica		(CC)
Metriou, ou la Min - Diese	i Range Organics	IDRUI	ıucı

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	74.3	49.9	mg/Kg			11/08/21 15:54	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-2 (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
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 16:29	1
Diesel Range Organics (Over C10-C28)	74.3		49.9		mg/Kg		11/03/21 11:37	11/04/21 16:29	1
OII 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
-		Calubia							
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Method: 300.0 - Anions, Ion Chro Analyte	0	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

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

Lab Sample ID: 890-1502-93

Matrix: Solid

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	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 16:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 16:51	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 11:37	11/04/21 16:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				11/03/21 11:37	11/04/21 16:51	1
o-Terphenyl	106		70 ₋ 130				11/03/21 11:37	11/04/21 16:51	1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

nc. Job ID: 890-1502-1 SWD 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 REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-1502-94

Matrix: Solid

Sample Depth: 0 - 6

Method: 300.0 - Anions, Ion Chromatography - Soluble											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	1250		4.95		mg/Kg			11/07/21 03:24	1		

Client Sample ID: SW-4 (0-6)

Date Collected: 10/25/21 00:00

Lab Sample ID: 890-1502-95

Matrix: Solid

Date Collected: 10/25/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 0 - 6

	rganic 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	11/04/21 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 12:1	5 11/04/21 00:10	1
1,4-Difluorobenzene (Surr)	105		70 - 130	11/01/21 12:1	6 11/04/21 00:10	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 (DRO) (GC)											
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		

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		11/03/21 11:37	11/04/21 17:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/21 11:37	11/04/21 17:14	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/21 11:37	11/04/21 17:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				11/03/21 11:37	11/04/21 17:14	1
o-Terphenyl	107		70 - 130				11/03/21 11:37	11/04/21 17:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble											
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	Chloride	1060		4.99		mg/Kg			11/07/21 03:46	1	

Lab Sample ID: 890-1502-96

Client Sample Results

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	•
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	,
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 BTE	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	•
Total TPH	Kesult 		49.8	MDL	mg/Kg	— –	Prepared	11/08/21 15:54	
Analyte Total TPH		Qualifier	RL	MDL	Unit ma/Ka	D	Prepared	Analyzed	Dil Fac
- -									
Method: 8015B NM - Diesel Rang									
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		11/03/21 11:37	11/04/21 17:35	1
(GRO)-C6-C10	.40.0		40.0				44/00/04 44 07	44/04/04 47 05	
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		11/03/21 11:37	11/04/21 17:35	
(.10 ()8)									1
C10-C28) Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/03/21 11:37	11/04/21 17:35	
•	<49.8 %Recovery		49.8 <i>Limits</i>		mg/Kg		11/03/21 11:37 Prepared	11/04/21 17:35 Analyzed	1
Oll Range Organics (Over C28-C36)					mg/Kg				Dil Fac
Oll Range Organics (Over C28-C36) Surrogate	%Recovery		Limits		mg/Kg		Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	%Recovery 102 122	Qualifier	Limits 70 - 130		mg/Kg		Prepared 11/03/21 11:37	Analyzed 11/04/21 17:35	Dil Fac
Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 102 122 omatography -	Qualifier	Limits 70 - 130	MDL		D	Prepared 11/03/21 11:37	Analyzed 11/04/21 17:35	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

Ameliate	Desuit	Qualifier	RL	MDL	Unit		Duamanad	Amalumad	Dil Fac
Analyte	Result	Qualifier	KL	MIDL	Unit	D	Prepared	Analyzed	Dii 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)			70 - 130				11/01/21 12:16	11/04/21 00:51	1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-1502-1

SDG: 212C-MD-02230

Client Sample ID: SW-6 (0-6) Lab Sample ID: 890-1502-97 **REMOVED FROM** Date Collected: 10/25/21 00:00

Date Received: 10/29/21 12:45

Sample Depth: 0 - 6

ANALYSIS TABLE

Method: 8021B - Volatile Organic Compounds (GC) (Continued) %Recovery Surrogate Qualifier Limits Prepared Analyzed Dil Fac 70 - 130 11/01/21 12:16 1,4-Difluorobenzene (Surr) 98 11/04/21 00:51

Method: Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac <0.00399 Total BTEX 0.00399 11/09/21 10:40 mg/Kg

Method: 8015 NM - Diesel Range Organics (DRO) (GC) RL MDL Unit D Prepared Analyzed Dil Fac **Total TPH** 988 49.9 mg/Kg 11/08/21 15:54

Method: 8015B NM - Diesel Range Organics (DRO) (GC) MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac Gasoline Range Organics <49.9 U 49.9 11/03/21 11:37 11/04/21 17:56 mg/Kg (GRO)-C6-C10 49.9 mg/Kg 11/03/21 11:37 11/04/21 17:56 **Diesel Range Organics (Over** 988 C10-C28) OII Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 11/03/21 11:37 11/04/21 17:56 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac

70 - 130 o-Terphenyl 98 11/03/21 11:37 11/04/21 17:56 Method: 300.0 - Anions, Ion Chromatography - Soluble

70 - 130

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 49.8 11/07/21 04:01 Chloride 7870 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

Analyte

Total TPH

1-Chlorooctane

REMOVED FROM ANALYSIS TABLE

Result Qualifier

86.9

89

Lab Sample ID: 890-1502-98 **Matrix: Solid**

11/03/21 11:37

Prepared

11/04/21 17:56

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 BT	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	П	0.00402		mg/Kg			11/09/21 10:40	1

Eurofins Xenco, Carlsbad

Analyzed

11/08/21 15:54

RL

49.9

MDL Unit

mg/Kg

Dil Fac

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

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

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-1502-98

Matrix: Solid

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	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6430		50.0		mg/Kg			11/07/21 04:08	10

Client Sample ID: SW-8 (0-6)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 0 - 6

REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-1502-99 **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	11/04/21 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	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	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	651		49.9		mg/Kg			11/08/21 15:54	1
- Method: 8015B NM - Diesel Rang	wa Oweniaa (D	POV (CC)							
Method: of 130 MM - Diesel Kang	ge Organics (D.	RO) (GC)							
_		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
_		Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared 11/03/21 11:37	Analyzed 11/04/21 18:39	Dil Fac
Analyte Gasoline Range Organics	Result	Qualifier		MDL		<u>D</u>			
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9	Qualifier U	49.9	MDL	mg/Kg	<u> </u>	11/03/21 11:37	11/04/21 18:39	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>	11/03/21 11:37	11/04/21 18:39	1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 651 <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 18:39 11/04/21 18:39 11/04/21 18:39	

Client: Tetra Tech, Inc.

Job ID: 890-1502-1 SDG: 212C-MD-02230

Project/Site: Kaiser SWD

Lab Sample ID: 890-1502-99

Matrix: Solid

Client Sample ID: SW-8 (0-6)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45 **REMOVED FROM ANALYSIS TABLE**

Sample Depth: 0 - 6

Method: 300.0 - Anions, Ion Chron	natography - Soluble							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4070	25.0		mg/Kg			11/07/21 04:15	5

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	

Lab Sample ID: 890-1502-100

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
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte		O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed 11/08/21 15:54	Dil Fac
	\43.0	U	49.0		mg/Kg			11/00/21 13.34	'
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 11:37	11/04/21 19:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		11/03/21 11:37	11/04/21 19:01	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/03/21 11:37	11/04/21 19:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				11/03/21 11:37	11/04/21 19:01	1
o-Terphenyl	112		70 - 130				11/03/21 11:37	11/04/21 19:01	1
Method: 300.0 - Anions, Ion Chro	•								
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Chloride	2870		24.8		mg/Kg			11/07/21 04:23	5

REMOVED FROM

ANALYSIS TABLE

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

Lab Sample ID: 890-1502-101

Date Received: 10/29/21 12:45

Matrix: Solid

Sample Depth: 0 - 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F2 F1	0.00200		mg/Kg		11/01/21 12:18	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 BTEX	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	1
Method: 8015 NM - Diesel Range	e 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 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 *1	49.9		mg/Kg		11/03/21 13:15	11/04/21 11:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/21 13:15	11/04/21 11:05	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 13:15	11/04/21 11:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil 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 Chr	omatography -	Soluble							
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SW-11 (0-6) Date Collected: 10/26/21 00:00

Date Received: 10/29/21 12:45

REMOVED FROM **ANALYSIS TABLE**

4090

Lab Sample ID: 890-1502-102 **Matrix: Solid**

11/07/21 04:30

Sample Depth: 0 - 6

Chloride

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	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				11/01/21 12:18	11/04/21 05:49	1

25.2

mg/Kg

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

Lab Sample ID: 890-1502-102

Matrix: Solid

rix: Solid

5

6

12

13

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 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			11/08/21 15:54	1
Method: 8015B NM - Diesel Rang 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 12:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/21 13:15	11/04/21 12:11	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 13:15	11/04/21 12:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				11/03/21 13:15	11/04/21 12:11	1
o-Terphenyl	104		70 - 130				11/03/21 13:15	11/04/21 12:11	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SW-12 (10)

Lab Sample ID: 890-1502-103

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
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)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Eurofins Xenco, Carlsbad

Client: Tetra Tech, Inc.
Project/Site: Kaiser SWD

Job ID: 890-1502-1

Lab Sample ID: 890-1502-103

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 C10-C28)	<50.0	U	50.0		mg/Kg		11/03/21 13:15	11/04/21 12:32	1
Oll 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
Analyte									

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

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	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 *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

Eurofins Xenco, Carlsbad

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Lab Sample ID: 890-1502-104

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: SW-13 (15)

Date Collected: 10/26/21 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	1840		24.9		mg/Kg			11/08/21 09:57	5

Client Sample ID: SW-14 (15)

Date Collected: 10/26/21 00:00

Lab Sample ID: 890-1502-105

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	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 06:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 12:18	11/04/21 06:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 12:18	11/04/21 06:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 12:18	11/04/21 06:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130				11/01/21 12:18	11/04/21 06:50	1
1,4-Difluorobenzene (Surr)	108		70 - 130				11/01/21 12:18	11/04/21 06:50	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			11/09/21 10:40	1
Analyte Total TPH	Result 56.3	Qualifier	49.8 —	MDL	mg/Kg	<u>D</u>	Prepared	Analyzed 11/08/21 15:54	Dil Fac
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	<49.8	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 Fac
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	1
Method: 300.0 - Anions, Ion Chr	•								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	185		5.00		mg/Kg			11/08/21 10:07	1

Lab Sample ID: 890-1502-106

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: SW-15 (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	<0.00200	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
Madhadi 0045 NM - Diagal Dansu	Owner in a (DD	0) (00)							
Method: 8015 NM - Diesel Range Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0		50.0	WIDE	mg/Kg		- riepareu	11/08/21 15:54	1
·	130.0	O	30.0		mg/rtg			11/00/21 10:54	
Method: 8015B NM - Diesel Rang									
modica. Ou lob itm - biosel itali	ge Organics (D	RO) (GC)							
Analyte	• •	RO) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics	• •	Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared 11/03/21 13:15	Analyzed 11/04/21 13:38	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U *1		MDL		<u>D</u>			1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 <50.0	Qualifier U *1	50.0	MDL	mg/Kg	<u>D</u>	11/03/21 13:15 11/03/21 13:15	11/04/21 13:38 11/04/21 13:38	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0	Qualifier U *1	50.0	MDL	mg/Kg	<u>D</u>	11/03/21 13:15	11/04/21 13:38	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 <50.0	Qualifier U *1 U	50.0	MDL	mg/Kg	<u>D</u>	11/03/21 13:15 11/03/21 13:15	11/04/21 13:38 11/04/21 13:38	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U *1 U	50.0 50.0 50.0	MDL	mg/Kg	<u>D</u>	11/03/21 13:15 11/03/21 13:15 11/03/21 13:15	11/04/21 13:38 11/04/21 13:38 11/04/21 13:38	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	Result	Qualifier U *1 U	50.0 50.0 50.0 <i>Limits</i>	MDL	mg/Kg	<u>D</u>	11/03/21 13:15 11/03/21 13:15 11/03/21 13:15 Prepared	11/04/21 13:38 11/04/21 13:38 11/04/21 13:38 Analyzed	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	Result	Qualifier U*1 U Qualifier	50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg	<u>D</u>	11/03/21 13:15 11/03/21 13:15 11/03/21 13:15 Prepared 11/03/21 13:15	11/04/21 13:38 11/04/21 13:38 11/04/21 13:38 Analyzed 11/04/21 13:38	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 o-Terphenyl	Result	Qualifier U*1 U Qualifier	50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	11/03/21 13:15 11/03/21 13:15 11/03/21 13:15 Prepared 11/03/21 13:15	11/04/21 13:38 11/04/21 13:38 11/04/21 13:38 Analyzed 11/04/21 13:38	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client Sample ID: SW-16 (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	<0.00200	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	1

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Lab Sample ID: 890-1502-107

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Lab Sample ID: 890-1502-107

11/03/21 13:15 11/04/21 13:59

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

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	<0.00399	U	0.00399		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 (DRO)	(00)

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	Range Oro	anice (DRO)	(GC)
Method. 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 *1	49.8		mg/Kg		11/03/21 13:15	11/04/21 13:59	1
(GRO)-C6-C10 Diesel Range Organics (Over	<49.8	П	49.8		mg/Kg		11/03/21 13:15	11/04/21 13:59	1
C10-C28)	440.0	J	40.0	'	mg/rtg		11/00/21 10:10	11/04/21 10:00	
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	1	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

Method: 300.0 - Anions, Ion Chrom	atography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	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: 9021R - V	Volatila Organic	Compounds (GC)
MICHIOU. OUZ ID •	VUIALIIE OLUAIIIC	CUIIIDUUIIUS (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

Method: Tot	al RTFY -	Total RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	0)	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00400	U	0.00400		ma/Ka				11/09/21 10:40	1

Analyte	•	•	Result	Qualifier	RL	MDL	Unit	ļ	D	Prepared	Analyzed	Dil Fac
Total TPH			55.1		50.0		mg/Kg				11/08/21 15:54	1

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
Oll 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
	2270		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
o-Terphenyl	103		70 ₋ 130				11/03/21 13:15	11/04/21 14:41	1

Job ID: 890-1502-1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

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

Method: 300.0 - Anions, Ion Chroma	atography -	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

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 Fa
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	
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/01/21 12:18	11/04/21 08:32	
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 Fa
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	
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00396	U	0.00396		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 Fa
Total TPH	<49.9	U	49.9		mg/Kg			11/08/21 15:54	
Method: 8015B NM - Diesel Rang	•								
Analyte		Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		11/03/21 13:15	11/04/21 15:03	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/03/21 13:15	11/04/21 15:03	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/03/21 13:15	11/04/21 15:03	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	103		70 - 130				11/03/21 13:15	11/04/21 15:03	
o-Terphenyl	103		70 - 130				11/03/21 13:15	11/04/21 15:03	
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	1000		4.95		mg/Kg			11/08/21 11:20	

Lab Sample ID: 890-1502-111

Client Sample Results

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 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
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Method: 8015 NM - Diesel Range Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
_	•	Qualifier	RL	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	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			11/08/21 15:54	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <49.9 ge Organics (D	Qualifier U RO) (GC) Qualifier U *1	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	ge Organics (D) Result <49.9 49.9	Qualifier 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
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 *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	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 *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	Analyzed 11/04/21 15:46 11/04/21 15:46 11/04/21 15:46	Dil Face 1 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 <49.9	Qualifier 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
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 *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
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 *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 Face 1 Dil Face 1 1 Dil Face 1 Dil Face 1 Dil Face 1 Dil Face

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	1

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1502-112

Lab Sample ID: 890-1502-112

Analyzed

Lab Sample ID: 890-1502-113

Matrix: Solid

Prepared

Client Sample Results

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	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	111		70 - 130	11/01/21 12:18	11/04/21 10:41	1

Method: Total BTEX - Total BTEX Calculation

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 C	Organics (DRO) (GC)						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	כ	Prepared	Analyzed	Dil Fac
Total TPH	154		49.9		mg/Kg			11/08/21 15:54	1
_									

RL

MDL Unit

Metriod. 60 13D MM - Dieser	Range Organics (DRO) (GC)
Analyte	Result Qualifier

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	11/03/21 13:15	11/04/21 16:07	1
Diesel Range Organics (Over C10-C28)	154		49.9	mg/Kg	11/03/21 13:15	11/04/21 16:07	1
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg	11/03/21 13:15	11/04/21 16:07	1

Surrogate	%Recovery Qualifier	Limits	Prep	ared	Analyzed	Dil Fac
1-Chlorooctane	107	70 - 130	11/03/2	1 13:15	11/04/21 16:07	1
o-Terphenyl	107	70 - 130	11/03/2	1 13:15	11/04/21 16:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

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)

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	<0.00199	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	RTFY -	Total F	RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			11/09/21 10:58	1

н	Made al. COAT NIM Diagas	D O (DD	3\ /OO\
н	Method: 8015 NM - Diese	Range Organics (DR)	
н	Michiga. Colo Min Bicoc	rtungo organios (Bitt	, (UU)

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

Dil Fac

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Job ID: 890-1502-1

Client Sample ID: SW-22 (15)

Lab Sample ID: 890-1502-113

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45 Matrix: Solid

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	omatography -	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 BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
								11/00/01 10 50	1
Total BTEX	< 0.00402	U	0.00402		mg/Kg			11/09/21 10:58	1
			0.00402		mg/Kg			11/09/21 10:58	1
: Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)		MDI		n	Propared		·
Method: 8015 NM - Diesel Range Analyte	Organics (DRO	O) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
: Method: 8015 NM - Diesel Range	Organics (DR	O) (GC) Qualifier		MDL		<u>D</u>	Prepared		·
Method: 8015 NM - Diesel Range Analyte	Organics (DRO Result <49.9	O) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH	Organics (DR) Result <49.9 ge Organics (DI)	O) (GC) Qualifier	RL		Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	Organics (DR) Result <49.9 ge Organics (DI)	Qualifier U RO) (GC) Qualifier	RL		Unit mg/Kg		<u> </u>	Analyzed 11/08/21 15:54	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Organics (DR) Result 49.9 ge Organics (DR) Result	Qualifier U RO) (GC) Qualifier U *1	RL		Unit mg/Kg		Prepared	Analyzed 11/08/21 15:54 Analyzed	Dil Fac Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	Organics (DR) Result 49.9 ge Organics (DI) Result 49.9	Qualifier U RO) (GC) Qualifier U *1	RL 49.9 RL 49.9		Unit mg/Kg Unit mg/Kg		Prepared 11/03/21 13:15	Analyzed 11/08/21 15:54 Analyzed 11/04/21 16:51	Dil Fac 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	Organics (DR) Result 49.9 ge Organics (DI) Result 49.9	Qualifier U RO) (GC) Qualifier U*1	RL 49.9 RL 49.9		Unit mg/Kg Unit mg/Kg		Prepared 11/03/21 13:15	Analyzed 11/08/21 15:54 Analyzed 11/04/21 16:51	Dil Fac 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 49.9 ge Organics (DI) Result 49.9 49.9	Qualifier U RO) (GC) Qualifier U*1 U	RL 49.9 RL 49.9 49.9		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 11/03/21 13:15 11/03/21 13:15	Analyzed 11/08/21 15:54 Analyzed 11/04/21 16:51 11/04/21 16:51	Dil Fac Dil Fac 1 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)	Organics (DR) Result <49.9 ge Organics (DI) Result <49.9 <49.9	Qualifier U RO) (GC) Qualifier U*1 U	RL 49.9 RL 49.9 49.9 49.9		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 11/03/21 13:15 11/03/21 13:15 11/03/21 13:15	Analyzed 11/08/21 15:54 Analyzed 11/04/21 16:51 11/04/21 16:51	Dil Fac Dil Fac 1

Lab Sample ID: 890-1502-114

Job ID: 890-1502-1 SDG: 212C-MD-02230

Client Sample ID: SW-23 (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	1070		4.96		mg/Kg			11/08/21 12:43	1	

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

Released to Imaging: 9/1/2023 3:25:35 PM

Sample Depth: 15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
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	•	, , ,				_			
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0		mg/Kg			11/08/21 15:54	•
Method: 8015B NM - Diesel Rang	ge Organics (D								
		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	Result <50.0		RL 50.0	MDL	mg/Kg	<u>D</u>	Prepared 11/03/21 13:15	Analyzed 11/04/21 17:14	Dil Fa
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		U *1		MDL		<u>D</u>			
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	MDL	mg/Kg	<u>D</u>	11/03/21 13:15	11/04/21 17:14	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 <50.0	U*1 U	50.0	MDL	mg/Kg	<u> </u>	11/03/21 13:15 11/03/21 13:15	11/04/21 17:14	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	<50.0 <50.0 <50.0	U*1 U	50.0 50.0 50.0	MDL	mg/Kg	<u>D</u>	11/03/21 13:15 11/03/21 13:15 11/03/21 13:15	11/04/21 17:14 11/04/21 17:14 11/04/21 17:14	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 <50.0 <50.0 %Recovery	U*1 U	50.0 50.0 50.0 <i>Limits</i>	MDL	mg/Kg	<u> </u>	11/03/21 13:15 11/03/21 13:15 11/03/21 13:15 Prepared	11/04/21 17:14 11/04/21 17:14 11/04/21 17:14 Analyzed	Dil Fa
Surrogate	<50.0 <50.0 <50.0 %Recovery 107 106	U *1 U U Qualifier	50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg	<u>D</u>	11/03/21 13:15 11/03/21 13:15 11/03/21 13:15 Prepared 11/03/21 13:15	11/04/21 17:14 11/04/21 17:14 11/04/21 17:14 Analyzed 11/04/21 17:14	Dil Fa
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 <50.0 <50.0 <50.0 %Recovery 107 106 comatography -	U *1 U U Qualifier	50.0 50.0 50.0 Limits 70 - 130		mg/Kg	<u>D</u>	11/03/21 13:15 11/03/21 13:15 11/03/21 13:15 Prepared 11/03/21 13:15	11/04/21 17:14 11/04/21 17:14 11/04/21 17:14 Analyzed 11/04/21 17:14	Dil Fa

Eurofins Xenco, Carlsbad

Client Sample Results Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Lab Sample ID: 890-1502-116

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Client Sample ID: SW-25 (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	<0.00200	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	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 10:58	1
Analyte Total TPH		Qualifier	RL 49.8	MDL		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)						11/08/21 15:54	1
		RO) (GC) Qualifier	RL	MDL		D	Prepared	11/08/21 15:54 Analyzed	1 Dil Fac
Analyte Gasoline Range Organics		Qualifier	RL 49.8	MDL		<u>D</u>	Prepared 11/03/21 13:15		Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U *1		MDL	Unit	<u>D</u>		Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.8	Qualifier U *1	49.8	MDL	Unit mg/Kg	<u>D</u>	11/03/21 13:15	Analyzed 11/04/21 17:35	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8 <49.8	Qualifier U *1 U	49.8	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/03/21 13:15 11/03/21 13:15	Analyzed 11/04/21 17:35	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 *1 U	49.8 49.8 49.8	MDL	Unit mg/Kg mg/Kg	<u> </u>	11/03/21 13:15 11/03/21 13:15 11/03/21 13:15	Analyzed 11/04/21 17:35 11/04/21 17:35 11/04/21 17:35	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 *1 U	49.8 49.8 49.8 Limits	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/03/21 13:15 11/03/21 13:15 11/03/21 13:15 Prepared	Analyzed 11/04/21 17:35 11/04/21 17:35 11/04/21 17:35 Analyzed	Dil Face
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 *1 U Qualifier	49.8 49.8 49.8 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/03/21 13:15 11/03/21 13:15 11/03/21 13:15 Prepared 11/03/21 13:15	Analyzed 11/04/21 17:35 11/04/21 17:35 11/04/21 17:35 Analyzed 11/04/21 17:35	
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 *1 U Qualifier	49.8 49.8 49.8 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	11/03/21 13:15 11/03/21 13:15 11/03/21 13:15 Prepared 11/03/21 13:15	Analyzed 11/04/21 17:35 11/04/21 17:35 11/04/21 17:35 Analyzed 11/04/21 17:35	Dil Face 1 1 Dil Face

Client Sample ID: SW-26 (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	<0.00198	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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Lab Sample ID: 890-1502-117

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Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

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

Method: 8021B - Volatile Organic	Compounds (G	C) (Continued)
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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: Total	BTEX - Total	BTEX Calculati	on

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

Mothod: 8015 NM - Diccol	Pango Organice (DPO) (CC)	

Analyte	Result	Qualifier	RL	MDL	Unit	D	ı	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg		_		11/08/21 15:54	1

Method: 8015B	NM - Diesel	Range Or	ganics (DRO)	(GC)
Method. 0013D	IAIM - DIESEI	Kange Or	yanıcə (DICO)	(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 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

	Surrogate	%Recovery	Quaimer	Limits		Prepared	Analyzea
	1-Chlorooctane	104		70 - 130		11/03/21 13:15	11/04/21 17:56
l	o-Terphenyl	103		70 - 130	1	11/03/21 13:15	11/04/21 17:56

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qu	ualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
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)

michiod. 002 ID - Volutile Orga	ine compounds	(30)							
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

Mothod:	Total RT	Y - Total I	RTEY Ca	lculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00411		0.00402		ma/Ka			11/09/21 10:58	1

Analyte	•	Result	Qualifier	RL	MDL	Unit	I	D	Prepared	Analyzed	Dil Fac
Total TPH		<49.9	U	49.9		mg/Kg				11/08/21 15:54	1

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Lab Sample ID: 890-1502-118

Matrix: Solid

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	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 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 - S	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3280		25.0		mg/Kg			11/08/21 13:36	5

Client Sample ID: SW-29 (15)

Date Collected: 10/26/21 00:00

Lab Sample ID: 890-1502-120

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 Fa
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	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
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	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 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
Analyte	itosuit	Quannon			O	_	rioparoa	,u., _ u u	D uc

Lab Sample ID: 890-1502-121

Client Sample Results

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	
Toluene	<0.00200	U F1	0.00200		mg/Kg		11/01/21 11:07	11/01/21 23:40	•
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 BTEX	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 10:58	1
Analyte	Result	Qualifier	RL	MDI	Unit	D	Danamanad		
				WIDE			Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	WDL	mg/Kg	_ =	Prepared	11/08/21 15:54	
• •				MIDL			Prepared		
: Method: 8015B NM - Diesel Ran	ge Organics (D					<u>D</u>	Prepared		1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier	49.9		mg/Kg	=	<u> </u>	11/08/21 15:54	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier	49.9		mg/Kg	=	Prepared	11/08/21 15:54 Analyzed	Dil Fac
5 5 ,	ge Organics (D Result <49.9	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
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	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	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	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 11/03/21 13:58	Analyzed 11/04/21 10:53 11/04/21 10:53 11/04/21 10:53	Dil Face 1 Dil Face 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 <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 11/03/21 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
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 90 108	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	Analyzed 11/04/21 10:53 11/04/21 10:53 11/04/21 10:53 Analyzed 11/04/21 10:53	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 90 108 omatography -	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	Analyzed 11/04/21 10:53 11/04/21 10:53 11/04/21 10:53 Analyzed 11/04/21 10:53	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

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Lab Sample ID: 890-1502-122

Matrix: Solid

Lab Sample ID: 890-1502-122

11/03/21 13:58

11/04/21 11:55

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 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)	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	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/Kg	 		11/08/21 15:54	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	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
1-Chlorooctane	86		70 - 130				11/03/21 13:58	11/04/21 11:55	1

1-Chlorooctane	86	70 - 130
o-Terphenyl 	93	70 - 130

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

Mothod: 9021D	Volatile Organie	Compounds (GC)
I WIELIIOU. OUZ ID '	- voiatile Organic	Compounds (GC)

moniour coziz rolatile ergain	o oompoundo (,							
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 RTEY	- Total RTFY	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 (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	<50.0 U	50.0	mg/Kg			11/08/21 15:54	1

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Matrix: Solid

Lab Sample ID: 890-1502-123

Client Sample Results

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	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

5.00 Chloride 11/09/21 15:01 582 mg/Kg Client Sample ID: SW-33 (RS) (8) Lab Sample ID: 890-1502-124

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)							
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
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		11/03/21 13:58	11/04/21 12:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/03/21 13:58	11/04/21 12:36	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/21 13:58	11/04/21 12:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				11/03/21 13:58	11/04/21 12:36	1
o-Terphenyl	80		70 - 130				11/03/21 13:58	11/04/21 12:36	1

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Released to Imaging: 9/1/2023 3:25:35 PM

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 Matrix: Solid

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Sample Depth: 8

Method: 300.0 - Anions, Ion Chrom	atography -	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)

latrix: Solid				Prep Type: Total/NA
				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
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	
390-1502-2	BH-2 (6)	120	98	
890-1502-3	BH-3 (6)	122	70	
390-1502-4	BH-4 (6)	124	67 S1-	
390-1502-5	BH-5 (6)	140 S1+	97	
390-1502-6	BH-6 (6)	136 S1+	104	
390-1502-7	BH-7 (6)	123	97	
390-1502-8	BH-8 (6)	146 S1+	69 S1-	
390-1502-9	BH-9 (6)	130	93	
890-1502-10	BH-10 (6)	136 S1+	105	
390-1502-11	BH-11 (6)	112	76	
390-1502-12	BH-12 (6)	137 S1+	98	
390-1502-13	BH-13 (6)	120	96	
390-1502-14	BH-14 (6)	130	95	
390-1502-15	BH-15 (6)	137 S1+	98	
390-1502-16	BH-16 (6)	110	82	
390-1502-17	BH-17 (6)	123	98	
390-1502-18	BH-18 (6)	127	98	
390-1502-19	BH-19 (6)	117	81	
390-1502-20	BH-20 (6)	113	94	
90-1502-21	BH-21 (6)	99	72	
890-1502-21 MS	BH-21 (6)	133 S1+	111	
390-1502-21 MSD	BH-21 (6)	113	104	
390-1502-22	BH-22 (6)	130	98	
390-1502-23	BH-23 (6)	116	100	
390-1502-24	BH-24 (6)	126	96	
390-1502-25	BH-25 (15)	122	97	
390-1502-26	BH-26 (15)	123	107	
390-1502-27	BH-27 (15)	112	85	
390-1502-28	BH-28 (15)	121	104	
390-1502-29	BH-29 (15)	123	91	
390-1502-30	BH-30 (15)	71	70	
390-1502-31	BH-31 (15)	114	111	
390-1502-32	BH-32 (15)	86	93	
390-1502-33	BH-33 (15)	132 S1+	108	
390-1502-34	BH-34 (15)	124	100	
390-1502-35	BH-35 (15)	127	110	
390-1502-36	BH-36 (15)	128	109	
390-1502-37	BH-37 (15)	117	101	
390-1502-38	BH-38 (15)	129	118	
390-1502-39	BH-39 (15)	117	100	
390-1502-40	BH-40 (15)	115	100	
890-1502-41	BH-41 (15)	132 S1+	110	
390-1502-41 MS	BH-41 (15)	66 S1-	179 S1+	
390-1502-41 MSD	BH-41 (15)	70	216 S1+	
390-1502-41 W3D	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	
890-1502-81 MSD	BH-82 (15)	105	83	
890-1502-83	BH-83 (15)	107	90	
890-1502-84	BH-84 (15)	126	101	
890-1502-64		114		
	BH-85 (15)		110	
890-1502-86	BH-86 (15)	115	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	. 5.55 Guirogate recovery (Acceptance Lillins)
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
502-87	BH-87 (15)	110	98	
02-88	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	
1502-91	SW-1 (0-6)	93	122	
1502-93	SW-2 (0-6)	108	74	
1502-94	SW-3 (0-6)	128	97 105	
1502-95	SW-4 (0-6)	133 S1+	105	
1502-96	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	
502-100	SW-9 (0-6)	126	101	
1502-101	SW-10 (0-6)	111	92	
1502-101 MS	SW-10 (0-6)	123	99	
1502-101 MSD	SW-10 (0-6)	123	101	
502-102	SW-11 (0-6)	113	88	
502-103	SW-12 (10)	140 S1+	113	
502-104	SW-13 (15)	123	110	
02-105	SW-14 (15)	135 S1+	108	
502-106	SW-15 (15)	85	57 S1-	
502-107	SW-16 (15)	129	108	
1502-108	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	
502-114	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	
1502-117	SW-27 (15)	121	103	
1502-116		128	107	
1502-119 1502-120	SW-28 (15)	128	215 S1+	
	SW-29 (15)	125 136 S1+		
-1502-121	SW-30 (RS) (6)		96	
-1502-121 MS	SW-30 (RS) (6)	122	97	
1502-121 MSD	SW-30 (RS) (6)	114	103	
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	
880-11113/1-A	Lab Control Sample	115	105	

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 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	
S 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	
O 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	
O 880-11388/2-A	Lab Control Sample Dup	105	102	
) 880-11445/2-A	Lab Control Sample Dup	82	234 S1+	
D 880-11449/4	Lab Control Sample Dup	95	198 S1+	
80-11021/5-A	Method Blank	106	101	
80-11075/5-A	Method Blank	120	97	
880-11076/5-A	Method Blank	115	93	
80-11109/5-A	Method Blank	120	106	
80-11111/5-A	Method Blank	58 S1-	189 S1+	
380-11112/5-A	Method Blank	117	106	
80-11113/5-A	Method Blank	117	107	
380-11114/5-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	nzene (Surr)			
DFBZ = 1.4-Difluoroben	zene (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)	
890-1502-1	BH-1 (6)	108	118	
890-1502-1 MS	BH-1 (6)	122	114	
890-1502-1 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 Recovery (Acceptance Limits)
		1CO1	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	
990-1502-5	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	
990-1502-9	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	
90-1502-43	BH-43 (15)	94	93	
90-1502-44	BH-44 (15)	110	116	
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

Matrix: Solid				Prep Type: Total/N/
				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1502-48	BH-48 (15)	111	111	
890-1502-49	BH-49 (15)	101	106	
890-1502-50	BH-50 (15)	114	119	
890-1502-51	BH-51 (15)	101	106	
890-1502-52	BH-52 (15)	101	103	
890-1502-53	BH-53 (15)	96	98	
890-1502-54	BH-54 (15)	99	100	
890-1502-55	BH-55 (15)	99	99	
890-1502-56	BH-56 (15)	106	113	
890-1502-57	BH-57 (15)	99	102	
890-1502-58	BH-58 (15)	93	93	
890-1502-59	BH-59 (15)	110	110	
890-1502-60	BH-60 (15)	88	87	
890-1502-61	BH-61 (15)	50 S1-	34 S1-	
890-1502-61 MS	BH-61 (15)	41 S1-	31 S1-	
890-1502-61 MSD	BH-61 (15)	75	61 S1-	
890-1502-62	BH-62 (15)	93	90	
890-1502-63	BH-63 (15)	95	95	
890-1502-64	BH-64 (15)	97	103	
890-1502-65	BH-65 (15)	99	107	
890-1502-66	BH-66 (15)	102	112	
890-1502-67	BH-67 (15)	102	110	
890-1502-68	BH-68 (15)	97	98	
890-1502-69		109	114	
890-1502-70	BH-69 (15) BH-70 (15)	97	103	
890-1502-71	BH-71 (15)	99	107	
890-1502-71	BH-72 (15)	115	128	
890-1502-73	BH-73 (15)	90	91	
890-1502-74	BH-74 (15)	98	102	
890-1502-74	BH-75 (15)	100	102	
890-1502-76	BH-76 (15)	93	96	
890-1502-77	BH-77 (15)	99	105	
890-1502-78	BH-78 (15)	108	112	
890-1502-79	BH-79 (15)	103	103	
890-1502-80	BH-80 (15)	109	122	
890-1502-81	BH-81 (15)	91	101	
890-1502-81 MS	BH-81 (15)	95	99	
890-1502-81 MSD	BH-81 (15)	95	97	
890-1502-82	BH-82 (15)	89	102	
890-1502-83	BH-83 (15)	91	105	
890-1502-84	BH-84 (15)	94	105	
890-1502-85	BH-85 (15)	93	106	
890-1502-86	BH-86 (15)	93	110	
890-1502-87	BH-87 (15)	93	110	
890-1502-88	BH-88 (15)	98	108	
890-1502-89	BH-89 (15)	92	107	
890-1502-90	BH90 (RS) (6)	94	112	
890-1502-91	BH-91 (RS) (6)	92	107	
890-1502-92	SW-1 (0-6)	90	106	
890-1502-93	SW-2 (0-6)	89	106	

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

Matrix: Solid				Prep Type: Total/NA
				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
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-14 (15)	102	100	
890-1502-107		102	105	
	SW-16 (15)	97		
890-1502-108	SW-17 (15)		97	
890-1502-109	SW-18 (15)	103	103	
890-1502-110	SW-19 (15)	103	103	
890-1502-111	SW-20 (15)	104	105	
890-1502-112	SW-21 (15)	107	107	
890-1502-113	SW-22 (15)	106	108	
890-1502-114	SW-23 (15)	104	101	
890-1502-115	SW-24 (15)	107	106	
890-1502-116	SW-25 (15)	104	105	
890-1502-117	SW-26 (15)	104	103	
890-1502-118	SW-27 (15)	99	97	
890-1502-119	SW-28 (15)	90	83	
890-1502-120	SW-29 (15)	103	99	
890-1502-121	SW-30 (RS) (6)	90	108	
890-1502-121 MS	SW-30 (RS) (6)	100	92	
890-1502-121 MSD	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	
	Method Blank			
MB 880-11223/1-A	IVIELITOU DIATIK	108	113	

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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 Rec
		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				

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-11021/5-A

Matrix: Solid Analysis Batch: 11022 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 C	Qualifier Lin	nits	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 Analysis Batch: 11206 Prep Batch: 11075 мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 11:05	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

Lab Sample ID: LCS 880-11075/1-A

Matrix: Solid

Analysis Batch: 11206

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 11075

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 0.100 Ethylbenzene 0.07511 mg/Kg 75 70 - 130 0.200 77 70 - 130 m-Xylene & p-Xylene 0.1537 mg/Kg 0.100 0.09253 93 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	113	70 - 130
1.4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: LCSD 880-11075/2-A

Matrix: Solid

Analysis Batch: 11206

Client Sample ID:	Lab Control Sample Dup
	Dren Times Tetal/NA

Prep Type: Total/NA

Prep Batch: 11075

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09604		mg/Kg		96	70 - 130	22	35

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 Result Qualifier Analyte 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 mg/Kg 58 70 - 130 Ethylbenzene <0.00199 UF1 0.101 0.06080 F1 mg/Kg 60 70 - 130 0.201 0.06489 F1 32 m-Xylene & p-Xylene <0.00398 UF1 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

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 880-11076/5-A

Matrix: Solid

Analysis Batch: 11022

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11076

MB	MB
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Analyte	Result	Qualifier	RL	MDL (Jnit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	r	mg/Kg	_	11/01/21 11:07	11/01/21 23:18	1
Xylenes, Total	<0.00400	U	0.00400	r	mg/Kg		11/01/21 11:07	11/01/21 23:18	1

MR MR

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

Matrix: Solid

Lab Sample ID: LCS 880-11076/1-A

Lab Sample ID: LCSD 880-11076/2-A

Matrix: Solid

Analysis Batch: 11022

Prep Type: Total/NA

Prep Batch: 11076

	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

Surrogate	%Recovery C	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	106		70 - 130		
1.4-Difluorobenzene (Surr)	87		70 - 130		

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11076 **Analysis Batch: 11022**

	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
•				0 0					

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

Spike MS MS Sample Sample %Rec. Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits 0.0990 0.04100 F1 41 Benzene <0.00200 UF1 70 - 130 mg/Kg Toluene <0.00200 UF1 0.0990 0.04297 F1 mg/Kg 43 70 - 130 0.0990 Ethylbenzene <0.00200 UF1 0.04022 F1 mg/Kg 41 70 - 130 m-Xylene & p-Xylene <0.00399 UF1 0.198 0.09185 F1 mg/Kg 46 70 - 130 o-Xylene <0.00200 UF1 0.0990 0.04676 F1 mg/Kg 47 70 - 130

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: 890-1502-121 MS

MS MS

Matrix: Solid

Analysis Batch: 11022

Client Sample ID: SW-30 (RS) (6)

Prep Type: Total/NA

Prep Batch: 11076

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 122 70 - 130 1,4-Difluorobenzene (Surr) 97 70 - 130

Client Sample ID: SW-30 (RS) (6) Lab Sample ID: 890-1502-121 MSD

Matrix: Solid

Analysis Batch: 11022

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

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	114	70 - 130
1,4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: MB 880-11109/5-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 11221 Prep Batch: 11109

	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

MB MB

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 **Client Sample ID: Lab Control Sample**

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 11221** Prep Batch: 11109

	Spike	LCS	LCS				%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. Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-11109/1-A

Lab Sample ID: LCSD 880-11109/2-A

Lab Sample ID: 890-1502-21 MS

Matrix: Solid

Matrix: Solid

Matrix: Solid

Analysis Batch: 11221

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

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

Client Sample ID: BH-21 (6)

Prep Type: Total/NA

Analysis Batch: 11221									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 Prep Type: Total/NA **Analysis Batch: 11221**

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 MS	:D	
Surrogate	%Recovery Qu	alifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	104		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: MB 880-11111/5-A

Matrix: Solid

Analysis Batch: 11259

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11111

	MB	MB						
Analyte	Result	Qualifier	RL	MDL Unit	D D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/l	Kg	11/01/21 12:11	11/04/21 01:52	•
Toluene	<0.00200	U	0.00200	mg/l	Kg	11/01/21 12:11	11/04/21 01:52	
Ethylbenzene	<0.00200	U	0.00200	mg/l	Kg	11/01/21 12:11	11/04/21 01:52	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/l	Kg	11/01/21 12:11	11/04/21 01:52	
o-Xylene	<0.00200	U	0.00200	mg/l	Kg	11/01/21 12:11	11/04/21 01:52	
Xylenes, Total	<0.00400	U	0.00400	mg/l	Kg	11/01/21 12:11	11/04/21 01:52	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Pi	repared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	58	S1-	70 - 130	11/0	1/21 12:11	11/04/21 01:52	1
1,4-Difluorobenzene (Surr)	189	S1+	70 - 130	11/0	1/21 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-Xylene	0.200	0.2116		mg/Kg					
o-Xylene	0.100	0.1243		mg/Kg					

LCSD LCSD

%Recovery Qualifier Surrogate Limits

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 Type: Total/NA

Prep Batch: 11111

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F2 F1	0.101	0.01309	F1	mg/Kg		12	70 - 130	
Toluene	<0.00200	U F2 F1	0.101	0.005176	F1	mg/Kg		4	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: 890-1502-41 MS **Matrix: Solid**

Analysis Batch: 11259

Client Sample ID: B	H-41 (15)

Prep Type: Total/NA Prep Batch: 11111

	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Ethylbenzene	<0.00200	U F2 F1	0.101	0.006767	F1	mg/Kg		6	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.202	<0.00403	U F1	mg/Kg		0	70 - 130
o-Xylene	< 0.00200	U F2 F1	0.101	0.01517	F1	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 Samp	le ID: Method	Blank
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Prep Type: Total/NA

Prep Batch: 11112

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene <	<0.00200	U	0.00200		mg/Kg		11/01/21 12:13	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

CI	ient	Sampl	e I	D:	Lab	Con	trol	Samp	le
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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	

Client: Tetra Tech, Inc.

Job ID: 890-1502-1

Project/Site: Kaiser SWD

SDG: 212C-MD-02230

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

	Бріке	LCS	LCS				%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

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

	LCSD LCS	D
Surrogate	%Recovery Qua	lifier Limits
4-Bromofluorobenzene (Surr)	121	70 - 130
1,4-Difluorobenzene (Surr)	106	70 - 130

Lab Sample ID: 890-1502-61 MS

Client Sample ID: BH-61 (15)

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 11221 Prep Batch: 11112

	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	

	MS	MS MS			
Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130		
1 4-Difluorobenzene (Surr)	110		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

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	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

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: 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

Lab Sample ID: MB 880-11113/5-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 11374

Prep Type: Total/NA

Prep Batch: 11113

MB MB

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac <0.00200 U 0.00200 11/01/21 12:16 11/03/21 17:26 Benzene mg/Kg Toluene <0.00200 U 0.00200 mg/Kg 11/01/21 12:16 11/03/21 17:26 <0.00200 U 0.00200 11/01/21 12:16 11/03/21 17:26 Ethylbenzene mg/Kg m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 11/01/21 12:16 11/03/21 17:26 o-Xylene <0.00200 U 0.00200 mg/Kg 11/01/21 12:16 11/03/21 17:26 Xylenes, Total <0.00400 U 0.00400 mg/Kg 11/01/21 12:16 11/03/21 17:26

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

Matrix: Solid

Analysis Batch: 11374

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11113

	Spike	LCS	LCS				%Rec.	
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

Client Sample ID: Lab Control Sample Dup

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

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 116 70 - 130

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Released to Imaging: 9/1/2023 3:25:35 PM

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: 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

%Recovery Qualifier Surrogate Limits 1,4-Difluorobenzene (Surr) 107 70 - 130

Client Sample ID: BH-81 (15) Lab Sample ID: 890-1502-81 MS

Matrix: Solid Prep Type: Total/NA

Prep Batch: 11113 Analysis Batch: 11374

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%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		mg/Kg		89	70 - 130	
Ethylbenzene	< 0.00199	U F2 F1	0.0990	0.09777		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.198	0.1912		mg/Kg		96	70 - 130	
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 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 41 70 - 130 35 mg/Kg 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 0.201 53 70 - 130 m-Xylene & p-Xylene <0.00398 U F2 F1 0.1091 F2 F1 mg/Kg 55 35

0.04780 F2 F1

mg/Kg

48

70 - 130

0.100

<0.00199 U F2 F1 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** Prep Batch: 11114

мв мв

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 05:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 05:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 05:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 12:18	11/04/21 05:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 12:18	11/04/21 05:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 12:18	11/04/21 05:00	1

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

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35

Prep Type: Total/NA

o-Xylene

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: LCS 880-11114/1-A

Matrix: Solid

Analysis Batch: 11374

Client	Sample	ID:	Lab	Control	Sample

Prep Type: Total/NA

Prep Batch: 11114

		Spike	LCS	LCS				%Rec.	
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Benzene	0.100	0.09032		mg/Kg		90	70 - 130	
	Toluene	0.100	0.09084		mg/Kg		91	70 - 130	
	Ethylbenzene	0.100	0.09641		mg/Kg		96	70 - 130	
	m-Xylene & p-Xylene	0.200	0.1881		mg/Kg		94	70 - 130	
	o-Xylene	0.100	0.09302		mg/Kg		93	70 - 130	
ı									

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1.4-Difluorobenzene (Surr)	106		70 - 130

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 880-11114/2-A **Matrix: Solid**

Analysis Batch: 11374

Prep Type: Total/NA

Prep Batch: 11114

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Limits RPD Limit Unit %Rec Benzene 0.100 0.08744 mg/Kg 87 70 - 130 3 35 Toluene 0.100 0.09130 mg/Kg 91 70 - 130 35 0.100 0.09282 70 - 130 Ethylbenzene mg/Kg 93 35 0.200 0.1809 90 70 - 130 35 m-Xylene & p-Xylene mg/Kg 0.100 0.09153 92 70 - 130 2 o-Xylene mg/Kg 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1.4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-1502-101 MS Client Sample ID: SW-10 (0-6)

Matrix: Solid

Analysis Batch: 11374

Prep Type: Total/NA

Prep Batch: 11114

0 %Rec	Limits
58	70 - 130
66	70 - 130
75	70 - 130
72	70 - 130
69	70 - 130
	58 66 75 72

MS MS

Surrogate	%Recovery Qualific	er Limits
4-Bromofluorobenzene (Surr)	123	70 - 130
1,4-Difluorobenzene (Surr)	99	70 - 130

Lab Sample ID: 890-1502-101 MSD Client Sample ID: SW-10 (0-6)

Matrix: Solid

Analysis Batch: 11374

Prep Type: Total/NA 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

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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) (Continued)

Lab Sample ID: 890-1502-101 MSD Client Sample ID: SW-10 (0-6) Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 11374 Prep Batch: 11114 Sample Sample Spike MSD MSD %Rec.

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit D < 0.00399 U F2 F1 0.200 0.09484 F2 F1 47 70 - 130 41 35 m-Xylene & p-Xylene mg/Kg 0.04771 F2 F1 o-Xylene <0.00200 U F2 F1 0.100 mg/Kg 47 70 - 130 38 35

MSD MSD Qualifier Limits Surrogate %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 123 101 70 - 130 1,4-Difluorobenzene (Surr)

Lab Sample ID: MB 880-11207/5-A Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA **Analysis Batch: 11206**

Prep Batch: 11207 мв мв

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Benzene <0.00200 0.00200 11/02/21 09:20 11/02/21 13:33 mg/Kg 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 11/02/21 09:20 11/02/21 13:33 mg/Kg o-Xylene <0.00200 U 0.00200 mg/Kg 11/02/21 09:20 11/02/21 13:33 <0.00400 U 0.00400 11/02/21 13:33 Xylenes, Total mg/Kg 11/02/21 09:20

MR MR Qualifier Limits Prepared Analyzed Dil Fac Surrogate %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 107 11/02/21 09:20 11/02/21 13:33 70 - 130 11/02/21 09:20 1,4-Difluorobenzene (Surr) 71 11/02/21 13:33

Lab Sample ID: MB 880-11258/5-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 11259 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

	MB	MB					
Surrogate	%Recovery	Qualifier	Limits	Prep	ared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	54	S1-	70 - 130	11/02/2	21 15:13	11/03/21 12:01	1
1,4-Difluorobenzene (Surr)	182	S1+	70 - 130	11/02/2	21 15:13	11/03/21 12:01	1

Lab Sample ID: MB 880-11388/5-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 11420** Prep Batch: 11388

мв мв

<0.00400 U

Result Qualifier Analyte MDL Unit Prepared RL Analyzed Dil Fac < 0.00200 U 0.00200 11/04/21 08:30 11/04/21 11:26 Benzene mg/Kg Toluene <0.00200 U 0.00200 mg/Kg 11/04/21 08:30 11/04/21 11:26 Ethylbenzene <0.00200 U 0.00200 mg/Kg 11/04/21 08:30 11/04/21 11:26

0.00400

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11/04/21 11:26

RPD

Prep Type: Total/NA

11/04/21 08:30

mg/Kg

m-Xylene & p-Xylene

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: MB 880-11388/5-A

Matrix: Solid

Analysis Batch: 11420

Client	Sample	ID:	Method	Blan	k

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

мв мв

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

	Spike	LUS	LUS				MRec.	
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

Lab Sample ID: LCSD 880-11388/2-A **Matrix: Solid Analysis Batch: 11420**

Analysis Batch. 11420							1 100	Dateii.	11000
	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

•		
Prep	Type: Tot	tal/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	

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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) (Continued)

MS MS

Lab Sample ID: 890-1502-53 MS

Matrix: Solid

Analysis Batch: 11420

Client Sample ID: BH-53 (15) Prep Type: Total/NA

Prep Batch: 11388

Surrogate %Recovery Qualifier Limits 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 Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 11449 Prep Batch: 11445

MR MR

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
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/04/21 11:11	11/04/21 21:28	1

мв мв

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-Difluorobenzene (Surr)	196	S1+	70 - 130	11/04/21 11:11	11/04/21 21:28	1

Lab Sample ID: LCS 880-11445/1-A Client Sample ID: Lab Control Sample

Matrix: Solid Analysis Batch: 11449

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1225 mg/Kg 122 70 - 130 Toluene 0.100 0.1133 70 - 130 mg/Kg 113 Ethylbenzene 0.100 0.1054 mg/Kg 105 70 - 130 0.200 109 70 - 130 m-Xylene & p-Xylene 0.2176 mg/Kg

mg/Kg

128

70 - 130

o-Xylene 0.100 0.1278 LCS LCS %Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 70 - 130 103

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Prep Type: Total/NA

Prep Batch: 11445

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: 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

Lab Sample ID: LCSD 880-11445/2-A

Matrix: Solid

Analysis Batch: 11449

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11445

RPD %Rec. Limits RPD Limit 70 - 130 29 35 70 - 130 27 35

LCSD LCSD Spike Analyte Added Result Qualifier Unit %Rec Benzene 0.100 0.09174 mg/Kg 92 Toluene 0.100 0.08621 86 mg/Kg Ethylbenzene 0.100 0.07899 mg/Kg 79 70 - 130 29 35 0.200 0.1558 m-Xylene & p-Xylene mg/Kg 78 70 - 130 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

Lab Sample ID: 890-1520-A-1-B MS Client Sample ID: Matrix Spike

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

%Rec.

Prep Type: Total/NA

Prep Batch: 11445

Sample Sample MSD MSD RPD Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Benzene 0.100 0.06470 F1 70 - 130 0.00453 F1 mg/Kg 60 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 <0.00399 UF1F2 0.200 0.01225 F1 F2 5 70 - 130 m-Xylene & p-Xylene mg/Kg 165 35 o-Xylene <0.00200 U F1 F2 0.100 0.01299 F1 F2 mg/Kg 13 70 - 130 147 35

MSD MSD

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	MR							
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 %Recovery Qualifier Surrogate Limits Prepared Analyzed 70 - 130 4-Bromofluorobenzene (Surr) 63 S1-11/04/21 15:47 1,4-Difluorobenzene (Surr) 187 S1+ 70 - 130 11/04/21 15:47

Lab Sample ID: LCS 880-11449/3

Matrix: Solid

Analysis Batch: 11449

Client Sample ID: Lab Control Sample Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1209		mg/Kg		121	70 - 130	
Toluene	0.100	0.1145		mg/Kg		114	70 - 130	
Ethylbenzene	0.100	0.1064		mg/Kg		106	70 - 130	
m-Xylene & p-Xylene	0.200	0.2177		mg/Kg		109	70 - 130	
o-Xylene	0.100	0.1244		mg/Kg		124	70 - 130	

LCS LCS Surrogate %Recovery Qualifier Limits 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	LCSD			%Rec.		RPD
Analyte	Added	Result	Qualifier 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

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Dil Fac

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)

MD MD

113

Lab Sample ID: MB 880-11223/1-A

Matrix: Solid Analysis Batch: 11317

o-Terphenyl

Client Sample ID: Method Blank

11/03/21 10:40

Prep Type: Total/NA

Prep Batch: 11223

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	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				11/02/21 11:44	11/03/21 10:40	1

70 - 130

Client Sample ID: Lab Control Sample

11/02/21 11:44

Lab Sample ID: LCS 880-11223/2-A **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 11317 Prep Batch: 11223

	Бріке	LUS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1194		mg/Kg		119	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1003		mg/Kg		100	70 _ 130	
C10-C28)								

LCS LCS %Recovery Qualifier Limits Surrogate 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

LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier %Rec RPD Limit Unit D Limits Gasoline Range Organics 1000 1154 mg/Kg 115 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 986.8 mg/Kg 99 70 - 130 2 20 C10-C28)

LCSD LCSD Qualifier Limits %Recovery Surrogate 70 - 130 1-Chlorooctane 113 106 70 - 130 o-Terphenyl

Lab Sample ID: 890-1502-1 MS Client Sample ID: BH-1 (6)

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 11317** Prep Batch: 11223

MS MS Sample Sample Spike %Rec. Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits <49.9 U F1 F2 Gasoline Range Organics 997 1550 F1 mg/Kg 155 70 - 130 (GRO)-C6-C10 <49.9 U 997 1181 Diesel Range Organics (Over 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)

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

MS MS %Recovery Qualifier Surrogate 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

	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 F2	1000	1120	F2	mg/Kg		112	70 - 130	32	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U	1000	1198		mg/Kg		117	70 - 130	1	20
C10-C28)											

MSD MSD Surrogate %Recovery Qualifier Limits 114 70 - 130 1-Chlorooctane 70 - 130 o-Terphenyl 109

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

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 10:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/02/21 14:45	11/03/21 10:22	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/02/21 14:45	11/03/21 10:22	1
	МВ	МВ						

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	11/02/21 14:45	11/03/21 10:22	1
o-Terphenyl	115		70 - 130	11/02/21 14:45	11/03/21 10:22	1

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

MB MB

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	106		70 - 130

Spike

Added

1000

1000

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

LCSD LCSD

1055

1037

Result Qualifier

mg/Kg

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-11255/3-A

Matrix: Solid

Analysis Batch: 11321

Gasoline Range Organics

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

			Prep	Batch:	11255	
			%Rec.		RPD	
Unit	D	%Rec	Limits	RPD	Limit	
mg/Kg 105		105	70 - 130	11	20	

70 - 130

104

Diesel Range Organics (Over C10-C28)

Analyte

(GRO)-C6-C10

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: 890-1502-21 MS Client Sample ID: BH-21 (6)

Matrix: Solid

Analysis Batch: 11321

Prep Type: Total/NA

Prep Batch: 11255

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	997	1011		mg/Kg		101	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	997	847.1		mg/Kg		85	70 - 130	
C10-C28)										

MS MS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 89 70 - 130 o-Terphenyl 94 70 - 130

Lab Sample ID: 890-1502-21 MSD

Matrix: Solid

Analysis Batch: 11321

Client Sample ID: BH-21 (6)

Prep Type: Total/NA Prep Batch: 11255

	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	1099		mg/Kg		110	70 - 130	8	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<49.9	U	1000	943.3		mg/Kg		94	70 - 130	11	20	
C10-C28)												

MSD MSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 94 70 - 130 101 70 - 130 o-Terphenyl

MD MD

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

ı		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		11/02/21 16:07	11/03/21 10:22	1
l	(GRO)-C6-C10									
l	Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/02/21 16:07	11/03/21 10:22	1
l	C10-C28)									
l	OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/02/21 16:07	11/03/21 10:22	1

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		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 I	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

Lab Sample ID: LCSD 880-11273/3-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid

Analysis Batch: 11323

Prep Type: Total/NA

Prep Batch: 11273

	Spike	LCSD	LCSD				%Rec.		RPD	
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)										

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

	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	997	1108		mg/Kg		111	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	897.0		mg/Kg		90	70 - 130		

MS I	ИS
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Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	95	70 - 130
o-Terphenyl	87	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) (Continued)

Lab Sample ID: 890-1502-41 MSD

Matrix: Solid Analysis Batch: 11323 Client Sample ID: BH-41 (15) Prep Type: Total/NA Prep Batch: 11273

	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	1109		mg/Kg		111	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	910.8		mg/Kg		91	70 - 130	2	20

	พรบ	IVISD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	87		70 - 130

Lab Sample ID: MB 880-11356/1-A

Matrix: Solid

Analysis Batch: 11323

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 11356

мв мв Result Qualifier MDL Unit Analyte RL Prepared Analyzed Dil Fac <50.0 U 50.0 11/03/21 10:38 11/03/21 19:59 Gasoline Range Organics mg/Kg

(GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 11/03/21 10:38 11/03/21 19:59 C10-C28) OII Range Organics (Over C28-C36) 50.0 <50.0 U mg/Kg 11/03/21 10:38 11/03/21 19:59

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	11/03/21 10:38	11/03/21 19:59	1
o-Terphenyl	109		70 - 130	11/03/21 10:38	11/03/21 19:59	1

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

Spike LCS LCS %Rec. Added Analyte Result Qualifier %Rec Unit 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)

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: LCSD 880-11356/3-A

Matrix: Solid

Analysis Batch: 11323

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

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)

LCSD LCSD

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

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 87 70 - 130 o-Terphenyl 84 70 - 130

Lab Sample ID: 890-1502-61 MS Client Sample ID: BH-61 (15)

Matrix: Solid Prep Type: Total/NA Analysis Batch: 11323 Prep Batch: 11356

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits <49.9 U F1 F2 997 482.0 F1 48 70 - 130Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U F1 F2 997 328.9 F1 mg/Kg 31 70 - 130C10-C28)

MS MS 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)

MSD MSD %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 75 o-Terphenyl 61 S1-70 - 130

Lab Sample ID: MB 880-11364/1-A Client Sample ID: Method Blank M

Matrix: Solid							Prep Type:	Total/NA
Analysis Batch: 11416							Prep Bato	h: 11364
	MB	MB						
A malusta	Decult	Ovelifier	DI.	MDI IInit	n	Duamanad	Amalumad	Dil Faa

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 10:00	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/03/21 11:37	11/04/21 10:00	1
C10-C28)									
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	MB							

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	11/03/21 11:37	11/04/21 10:00	1
o-Terphenyl	115		70 - 130	11/03/21 11:37	11/04/21 10:00	1

QC Sample Results

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)

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 100 100 Chiles

	эріке	LUS	LUS				70Kec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	840.1		mg/Kg		84	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	883.5		mg/Kg		88	70 - 130	
C10-C28)								

LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 70 - 130 81

o-Terphenyl 89 70 - 130 Lab Sample ID: LCSD 880-11364/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 11416** Prep Batch: 11364 Spike LCSD LCSD %Rec. RPD

Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 70 - 130 Gasoline Range Organics 887.3 mg/Kg 89 5 (GRO)-C6-C10 Diesel Range Organics (Over 1000 925.6 mg/Kg 93 70 - 130 5 20 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) **Matrix: Solid**

Prep Type: Total/NA **Analysis Batch: 11416** Prep Batch: 11364

	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	997	995.4		mg/Kg		100	70 - 130		_
Diesel Range Organics (Over C10-C28)	<49.9	U	997	818.8		mg/Kg		80	70 - 130		

MS MS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 95 70 - 130 99 o-Terphenyl 70 - 130

Cample Cample

Lab Sample ID: 890-1502-81 MSD Client Sample ID: BH-81 (15)

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 11416** Prep Batch: 11364

	Sample	Sample	Spike	MISD	MISD				%Rec.		KFD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<49.9	U	1000	985.1		mg/Kg	_	99	70 - 130	1	20	
(GRO)-C6-C10												
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 70 - 130 95

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11/10/2021

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)

Lab Sample ID: 890-1502-81 MSD

Lab Sample ID: MB 880-11375/1-A

Matrix: Solid

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

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11375

Analysis Batch: 11418

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		11/03/21 13:15	11/04/21 10:00	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/03/21 13:15	11/04/21 10:00	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/03/21 13:15	11/04/21 10:00	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	11/03/21 13:15	11/04/21 10:00	1
o-Terphenyl	123		70 - 130	11/03/21 13:15	11/04/21 10:00	1

Client Sample ID: Lab Control Sample

Matrix: Solid

Lab Sample ID: LCS 880-11375/2-A

Analysis Batch: 11418

Prep Type: Total/NA Prep Batch: 11375

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
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 Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 11418

Prep Type: Total/NA Prep Batch: 11375

	Spike	LCSD	LCSD				%Rec.		RPD	
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	
C10 C20)										

C10-C28)

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	92	70 - 130
o-Terphenyl	85	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) (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

Prep Batch: 11375

Sample Sample Spike MS MS Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics <49.9 U*1 997 925.0 mg/Kg 91 70 - 130 (GRO)-C6-C10 997 908.6 Diesel Range Organics (Over <49.9 U mg/Kg 88 70 - 130 C10-C28)

MS MS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: 890-1502-101 MSD Client Sample ID: SW-10 (0-6) Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 11418

	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 *1	1000	1063		mg/Kg		105	70 - 130	14	20
(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

Analyte Resul	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics <50.0	U	50.0	mg/Kg		11/03/21 13:58	11/04/21 09:53	1
(GRO)-C6-C10 Diesel Range Organics (Over <50.0		50.0	mg/Kg		11/03/21 13:58	11/04/21 09:53	1
Diesel Range Organics (Over <50.0 C10-C28)	U	50.0	mg/kg		11/03/21 13.36	11/04/21 09.55	
OII Range Organics (Over C28-C36) <50.0	U	50.0	mg/Kg		11/03/21 13:58	11/04/21 09:53	1

MB MB

мв мв

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 Client Sample ID: Lab Control Sample

(GRO)-C6-C10

Diesel Range Organics (Over

Matrix: Solid							Prep	Type: Total/NA
Analysis Batch: 11414							Pre	p 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	

838.1

mq/Kq

1000

C10-C28)

Eurofins Xenco, Carlsbad

70 - 130

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)

LCS LCS %Recovery Qualifier

108

88

Lab Sample ID: LCS 880-11376/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 11414

Surrogate

o-Terphenyl

C10-C28)

1-Chlorooctane

Prep Type: Total/NA

Prep Batch: 11376

Prep Type: Total/NA

Prep Batch: 11376

Lab Sample ID: LCSD 880-11376/3-A Client Sample ID: Lab Control Sample Dup

Limits

70 - 130

70 - 130

Matrix: Solid Prep Type: Total/NA

Prep Batch: 11376

84

70 - 130

Analysis Batch: 11414 Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 965.5 97 70 - 13020 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 913.0 mg/Kg 91 70 - 1309 20

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: 890-1502-121 MS Client Sample ID: SW-30 (RS) (6)

Matrix: Solid

Diesel Range Organics (Over

Analysis Batch: 11414

<49.9 U

Med Med

Sample Sample Spike MS MS Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 997 1036 mg/Kg 101 70 - 130 (GRO)-C6-C10

863.0

mg/Kg

997

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 Prep Type: Total/NA

Analysis Batch: 11414 Prep Batch: 11376 Sample Sample Snika MeD MeD

	Janipie	Janipie	Spike	WISD	MIGD				/ortec.		KFD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	954.6		mg/Kg		93	70 - 130	8	20	
Diesel Range Organics (Over	<49.9	U	1000	789.2		mg/Kg		77	70 - 130	9	20	

C10-C28)

	עכועו עכועו	
Surrogate	%Recovery Qualifi	er Limits
1-Chlorooctane	92	70 - 130
o-Terphenyl	84	70 - 130

Job ID: 890-1502-1 SDG: 212C-MD-02230

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-11227/1-A

Matrix: Solid

Analysis Batch: 11379

MB MB

Analyte Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 11/06/21 05:15

Lab Sample ID: LCS 880-11227/2-A

Matrix: Solid

Analysis Batch: 11379

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 266.7 mg/Kg 107 90 - 110

Lab Sample ID: LCSD 880-11227/3-A

Analysis Batch: 11379

LCSD LCSD %Rec. RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 267.5 250 mg/Kg 107 90 - 110

Lab Sample ID: 890-1499-A-1-H MS

Matrix: Solid

Matrix: Solid

Analysis Batch: 11379

Sample Sample MS MS Spike %Rec. Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits Chloride 987 248 1189 F1 90 - 110 mg/Kg

Lab Sample ID: 890-1499-A-1-I MSD

Matrix: Solid

Analysis Batch: 11379

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 987 F1 1194 F1 Chloride 248 mg/Kg 84 90 - 110

Lab Sample ID: MB 880-11233/1-A

Matrix: Solid

Analysis Batch: 11381

мв мв

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride <5.00 5.00 mg/Kg 11/07/21 01:48

Lab Sample ID: LCS 880-11233/2-A

Matrix: Solid

Analysis Batch: 11381

LCS LCS %Rec. Spike Added Result Qualifier Limits Analyte Unit %Rec Chloride 250 229.5 mg/Kg 92 90 - 110

Lab Sample ID: LCSD 880-11233/3-A

Matrix: Solid

Analysis Batch: 11381

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 233.0 mg/Kg 93 90 - 110 20

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 Client Sample ID: SW-1 (0-6) **Matrix: Solid Prep Type: Soluble**

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 Client Sample ID: SW-1 (0-6) **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 11381

١		Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Chloride	1430		1250	2746		mg/Kg		105	90 - 110	0	20

Lab Sample ID: MB 880-11236/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analyte

Chloride

Analysis Batch: 11452

мв мв Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac <5.00 U 5.00 11/08/21 08:34 mg/Kg

Lab Sample ID: LCS 880-11236/2-A Client Sample ID: Lab Control Sample **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 11452

Spike LCS LCS %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 Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 11452

LCSD LCSD Spike %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 Client Sample ID: BH-4 (6) Matrix: Solid **Prep Type: Soluble**

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 Client Sample ID: BH-4 (6) **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 11452

MSD MSD %Rec. RPD Sample Sample Spike Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Chloride 48.9 253 277.9 mg/Kg 91 90 - 110 20

Lab Sample ID: 890-1502-111 MS Client Sample ID: SW-20 (15)

Matrix: Solid

Analysis Batch: 11452

Spike MS MS %Rec. Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 1150 248 1264 mg/Kg 48 90 - 110

Eurofins Xenco, Carlsbad

Prep Type: Soluble

Job ID: 890-1502-1 SDG: 212C-MD-02230

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

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Sample Spike MSD MSD %Rec. RPD Sample Qualifier Analyte Result Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 1150 248 1261 4 mg/Kg 90 - 110 20

Lab Sample ID: MB 880-11237/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 11453

мв мв MDL Unit Analyte Result Qualifier RL D 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

LCS LCS %Rec. Spike Analyte Added Result Qualifier Unit %Rec Limits Chloride 236.9 250 mg/Kg 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

LCSD LCSD RPD Spike %Rec. Added RPD Limit Analyte Result Qualifier Unit D %Rec Limits Chloride 250 241.4 90 - 110 20 mg/Kg

Lab Sample ID: 890-1502-5 MS Client Sample ID: BH-5 (6) **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 11453

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 123 249 353.6 mg/Kg 93 90 - 110

Lab Sample ID: 890-1502-5 MSD Client Sample ID: BH-5 (6) **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 11453

Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier Added RPD Analyte Result Qualifier Unit D %Rec Limits Limit Chloride 123 249 352 1 mg/Kg 90 - 110

Lab Sample ID: 890-1502-15 MS Client Sample ID: BH-15 (6)

Matrix: Solid

Analysis Batch: 11453

MS MS %Rec. Sample Sample Spike Result Qualifier Added Result Qualifier Limits Analyte Unit D %Rec Chloride 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

MSD MSD Spike %Rec. RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 4220 1250 5826 F1 mg/Kg 128 90 - 110 20

Eurofins Xenco, Carlsbad

Prep Type: Soluble

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

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

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

мв мв

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

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

Prep Type: Soluble

Client Sample ID: BH-45 (15)

Client Sample ID: BH-45 (15)

Client Sample ID: BH-55 (15)

Client Sample ID: BH-55 (15)

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

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: LCS 880-11240/2-A

Analysis Batch: 11455

Matrix: Solid

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

Matrix: Solid

Analysis Batch: 11455

Spike LCSD LCSD %Rec. RPD Added Analyte Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 233.4 mg/Kg 93 90 - 110

Lab Sample ID: 890-1502-45 MS

Matrix: Solid

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

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

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

Matrix: Solid

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

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

Released to Imaging: 9/1/2023 3:25:35 PM

Matrix: Solid

Analysis Batch: 11456

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 236.3 mg/Kg 95 90 - 110

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: 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

мв мв Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride <5.00 5.00 mg/Kg 11/09/21 12:29

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

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	831	F1	252	1043	F1	mg/Kg		84	90 - 110	0	20

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 Batch
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	
890-1502-50	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 Bate
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	
390-1502-71	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	
390-1502-74	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	
390-1502-61 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 Batcl
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	
890-1502-84	BH-84 (15)	Total/NA	Solid	5035	
890-1502-85	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	
390-1502-91	BH-91 (RS) (6)	Total/NA	Solid	5035	
390-1502-92	SW-1 (0-6)	Total/NA	Solid	5035	
390-1502-93	SW-2 (0-6)	Total/NA	Solid	5035	
390-1502-94	SW-3 (0-6)	Total/NA	Solid	5035	
390-1502-95	SW-4 (0-6)	Total/NA	Solid	5035	
390-1502-96	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 Batch
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

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD 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

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
390-1502-45	BH-45 (15)	Total/NA	Solid	8021B	11111
390-1502-46	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
390-1502-50	BH-50 (15)	Total/NA	Solid	8021B	11111
390-1502-51	BH-51 (15)	Total/NA	Solid	8021B	11111
390-1502-52	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	11111
890-1502-41 MS	BH-41 (15)	Total/NA	Solid	8021B	11111
890-1502-41 MSD	BH-41 (15)	Total/NA	Solid	8021B	11111

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 Batcl
390-1502-82	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	11113
890-1502-85	BH-85 (15)	Total/NA	Solid	8021B	11113
390-1502-86	BH-86 (15)	Total/NA	Solid	8021B	11113
390-1502-87	BH-87 (15)	Total/NA	Solid	8021B	11113
390-1502-88	BH-88 (15)	Total/NA	Solid	8021B	11113
390-1502-89	BH-89 (15)	Total/NA	Solid	8021B	11113
390-1502-90	BH90 (RS) (6)	Total/NA	Solid	8021B	11113
390-1502-91	BH-91 (RS) (6)	Total/NA	Solid	8021B	11113
390-1502-92	SW-1 (0-6)	Total/NA	Solid	8021B	11113
390-1502-93	SW-2 (0-6)	Total/NA	Solid	8021B	11113
390-1502-94	SW-3 (0-6)	Total/NA	Solid	8021B	11113
390-1502-95	SW-4 (0-6)	Total/NA	Solid	8021B	11113
390-1502-96	SW-5 (0-6)	Total/NA	Solid	8021B	11113
390-1502-97	SW-6 (0-6)	Total/NA	Solid	8021B	11113
390-1502-98	SW-7 (0-6)	Total/NA	Solid	8021B	11113
390-1502-99	SW-8 (0-6)	Total/NA	Solid	8021B	11113
390-1502-100	SW-9 (0-6)	Total/NA	Solid	8021B	11113
390-1502-101	SW-10 (0-6)	Total/NA	Solid	8021B	11114
390-1502-102	SW-11 (0-6)	Total/NA	Solid	8021B	11114
390-1502-103	SW-12 (10)	Total/NA	Solid	8021B	11114
390-1502-104	SW-13 (15)	Total/NA	Solid	8021B	11114
390-1502-105	SW-14 (15)	Total/NA	Solid	8021B	11114
390-1502-106	SW-15 (15)	Total/NA	Solid	8021B	11114
890-1502-107	SW-16 (15)	Total/NA	Solid	8021B	11114
390-1502-108	SW-17 (15)	Total/NA	Solid	8021B	11114
390-1502-109	SW-18 (15)	Total/NA	Solid	8021B	11114
390-1502-109 390-1502-110		Total/NA	Solid	8021B	11114
390-1502-110 390-1502-111	SW-19 (15)	Total/NA	Solid	8021B	11114
	SW-20 (15)				
390-1502-112	SW-21 (15)	Total/NA	Solid	8021B	11114
390-1502-113	SW-22 (15)	Total/NA	Solid	8021B	11114
390-1502-114	SW-23 (15)	Total/NA	Solid	8021B	11114
390-1502-115	SW-24 (15)	Total/NA	Solid	8021B	11114
390-1502-116	SW-25 (15)	Total/NA	Solid	8021B	11114
390-1502-117	SW-26 (15)	Total/NA	Solid	8021B	11114
390-1502-118	SW-27 (15)	Total/NA	Solid	8021B	11114
390-1502-119	SW-28 (15)	Total/NA	Solid	8021B	11114
MB 880-11113/5-A	Method Blank	Total/NA	Solid	8021B	11113
MB 880-11114/5-A	Method Blank	Total/NA	Solid	8021B	11114
CS 880-11113/1-A	Lab Control Sample	Total/NA	Solid	8021B	11113
_CS 880-11114/1-A	Lab Control Sample	Total/NA	Solid	8021B	11114
_CSD 880-11113/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	11113
CSD 880-11114/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	11114
890-1502-81 MS	BH-81 (15)	Total/NA	Solid	8021B	11113
890-1502-81 MSD	BH-81 (15)	Total/NA	Solid	8021B	11113
890-1502-101 MS	SW-10 (0-6)	Total/NA	Solid	8021B	11114
890-1502-101 MSD	SW-10 (0-6)	Total/NA	Solid	8021B	11114

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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	90-1502-1	BH-1 (6)	Total/NA	Solid	Total BTEX	
8	90-1502-2	BH-2 (6)	Total/NA	Solid	Total BTEX	
8	90-1502-3	BH-3 (6)	Total/NA	Solid	Total BTEX	
8	90-1502-4	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	
390-1502-11	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	
390-1502-16	BH-16 (6)	Total/NA	Solid	Total BTEX	
890-1502-17	BH-17 (6)	Total/NA	Solid	Total BTEX	
390-1502-18	BH-18 (6)	Total/NA	Solid	Total BTEX	
890-1502-19	BH-19 (6)	Total/NA	Solid	Total BTEX	
390-1502-20	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	
890-1502-25	BH-25 (15)	Total/NA	Solid	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	
390-1502-29	BH-29 (15)	Total/NA	Solid	Total BTEX	
390-1502-30	BH-30 (15)	Total/NA	Solid	Total BTEX	
390-1502-31	BH-31 (15)	Total/NA	Solid	Total BTEX	
890-1502-32	BH-32 (15)	Total/NA	Solid	Total BTEX	
390-1502-33	BH-33 (15)	Total/NA	Solid	Total BTEX	
890-1502-34	BH-34 (15)	Total/NA	Solid	Total BTEX	
890-1502-35	BH-35 (15)	Total/NA	Solid	Total BTEX	
890-1502-36	BH-36 (15)	Total/NA	Solid	Total BTEX	
390-1502-37	BH-37 (15)	Total/NA	Solid	Total BTEX	
390-1502-38	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		Total/NA	Solid	Total BTEX	
	BH-47 (15)				
890-1502-48 800-1502-40	BH-48 (15)	Total/NA	Solid	Total BTEX Total BTEX	
890-1502-49	BH-49 (15)	Total/NA	Solid		
890-1502-50	BH-50 (15)	Total/NA	Solid	Total BTEX	
390-1502-51	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	

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
890-1502-56	BH-56 (15)	Total/NA	Solid	Total BTEX	
890-1502-57	BH-57 (15)	Total/NA	Solid	Total BTEX	
890-1502-58	BH-58 (15)	Total/NA	Solid	Total BTEX	
890-1502-59	BH-59 (15)	Total/NA	Solid	Total BTEX	
890-1502-60	BH-60 (15)	Total/NA	Solid	Total BTEX	
890-1502-61	BH-61 (15)	Total/NA	Solid	Total BTEX	
890-1502-62	BH-62 (15)	Total/NA	Solid	Total BTEX	
890-1502-63	BH-63 (15)	Total/NA	Solid	Total BTEX	
890-1502-64	BH-64 (15)	Total/NA	Solid	Total BTEX	
890-1502-65	BH-65 (15)	Total/NA	Solid	Total BTEX	
890-1502-66	BH-66 (15)	Total/NA	Solid	Total BTEX	
890-1502-67	BH-67 (15)	Total/NA	Solid	Total BTEX	
890-1502-68	BH-68 (15)	Total/NA	Solid	Total BTEX	
890-1502-69	BH-69 (15)	Total/NA	Solid	Total BTEX	
890-1502-70	BH-70 (15)	Total/NA	Solid	Total BTEX	
890-1502-71	BH-71 (15)	Total/NA	Solid	Total BTEX	
890-1502-71	·	Total/NA	Solid	Total BTEX	
	BH-72 (15)				
890-1502-73	BH-73 (15)	Total/NA	Solid	Total BTEX	
890-1502-74	BH-74 (15)	Total/NA	Solid	Total BTEX	
890-1502-75	BH-75 (15)	Total/NA	Solid	Total BTEX	
890-1502-76	BH-76 (15)	Total/NA	Solid	Total BTEX	
890-1502-77	BH-77 (15)	Total/NA	Solid	Total BTEX	
890-1502-78	BH-78 (15)	Total/NA	Solid	Total BTEX	
890-1502-79	BH-79 (15)	Total/NA	Solid	Total BTEX	
890-1502-80	BH-80 (15)	Total/NA	Solid	Total BTEX	
890-1502-81	BH-81 (15)	Total/NA	Solid	Total BTEX	
890-1502-82	BH-82 (15)	Total/NA	Solid	Total BTEX	
890-1502-83	BH-83 (15)	Total/NA	Solid	Total BTEX	
890-1502-84	BH-84 (15)	Total/NA	Solid	Total BTEX	
890-1502-85	BH-85 (15)	Total/NA	Solid	Total BTEX	
890-1502-86	BH-86 (15)	Total/NA	Solid	Total BTEX	
890-1502-87	BH-87 (15)	Total/NA	Solid	Total BTEX	
890-1502-88	BH-88 (15)	Total/NA	Solid	Total BTEX	
890-1502-89	BH-89 (15)	Total/NA	Solid	Total BTEX	
890-1502-90	BH90 (RS) (6)	Total/NA	Solid	Total BTEX	
890-1502-91	BH-91 (RS) (6)	Total/NA	Solid	Total BTEX	
890-1502-92	SW-1 (0-6)	Total/NA	Solid	Total BTEX	
890-1502-93	SW-2 (0-6)	Total/NA	Solid	Total BTEX	
890-1502-94	SW-3 (0-6)	Total/NA	Solid	Total BTEX	
890-1502-95	SW-4 (0-6)	Total/NA	Solid	Total BTEX	
890-1502-96	SW-5 (0-6)	Total/NA	Solid	Total BTEX	
890-1502-97	SW-6 (0-6)	Total/NA	Solid	Total BTEX	
890-1502-98	SW-7 (0-6)	Total/NA	Solid	Total BTEX	
890-1502-99	SW-8 (0-6)	Total/NA	Solid	Total BTEX	
890-1502-100	SW-9 (0-6)	Total/NA	Solid	Total BTEX	
890-1502-101	SW-10 (0-6)	Total/NA	Solid	Total BTEX	
890-1502-101	SW-10 (0-0) SW-11 (0-6)	Total/NA	Solid	Total BTEX	
890-1502-102				Total BTEX	
	SW-12 (10)	Total/NA	Solid		
890-1502-104	SW-13 (15)	Total/NA	Solid	Total BTEX	
890-1502-105 890-1502-106	SW-14 (15) SW-15 (15)	Total/NA Total/NA	Solid Solid	Total BTEX 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 Batcl
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

Pron Batch: 11223

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	
890-1502-8	BH-8 (6)	Total/NA	Solid	8015NM Prep	
890-1502-9	BH-9 (6)	Total/NA	Solid	8015NM Prep	
890-1502-10	BH-10 (6)	Total/NA	Solid	8015NM Prep	
890-1502-11	BH-11 (6)	Total/NA	Solid	8015NM Prep	
890-1502-12	BH-12 (6)	Total/NA	Solid	8015NM Prep	
890-1502-13	BH-13 (6)	Total/NA	Solid	8015NM Prep	
890-1502-14	BH-14 (6)	Total/NA	Solid	8015NM Prep	
890-1502-15	BH-15 (6)	Total/NA	Solid	8015NM Prep	
890-1502-16	BH-16 (6)	Total/NA	Solid	8015NM Prep	
890-1502-17	BH-17 (6)	Total/NA	Solid	8015NM Prep	
890-1502-18	BH-18 (6)	Total/NA	Solid	8015NM Prep	
890-1502-19	BH-19 (6)	Total/NA	Solid	8015NM Prep	
890-1502-20	BH-20 (6)	Total/NA	Solid	8015NM Prep	
MB 880-11223/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-11223/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-11223/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1502-1 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 Batcl
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	
890-1502-49	BH-49 (15)	Total/NA	Solid	8015NM Prep	
890-1502-50	BH-50 (15)	Total/NA	Solid	8015NM Prep	
890-1502-51	BH-51 (15)	Total/NA	Solid	8015NM Prep	
890-1502-52	BH-52 (15)	Total/NA	Solid	8015NM Prep	
890-1502-53	BH-53 (15)	Total/NA	Solid	8015NM Prep	
890-1502-54	BH-54 (15)	Total/NA	Solid	8015NM Prep	
890-1502-55	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	
890-1502-60	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 Batch
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)

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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

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
390-1502-41	BH-41 (15)	Total/NA	Solid	8015B NM	11273
390-1502-42	BH-42 (15)	Total/NA	Solid	8015B NM	11273
390-1502-43	BH-43 (15)	Total/NA	Solid	8015B NM	11273
90-1502-44	BH-44 (15)	Total/NA	Solid	8015B NM	11273
90-1502-45	BH-45 (15)	Total/NA	Solid	8015B NM	11273
90-1502-46	BH-46 (15)	Total/NA	Solid	8015B NM	11273
90-1502-47	BH-47 (15)	Total/NA	Solid	8015B NM	11273
90-1502-48	BH-48 (15)	Total/NA	Solid	8015B NM	11273
90-1502-49	BH-49 (15)	Total/NA	Solid	8015B NM	11273
90-1502-50	BH-50 (15)	Total/NA	Solid	8015B NM	11273
90-1502-51	BH-51 (15)	Total/NA	Solid	8015B NM	11273
90-1502-52	BH-52 (15)	Total/NA	Solid	8015B NM	11273
90-1502-53	BH-53 (15)	Total/NA	Solid	8015B NM	11273
90-1502-54	BH-54 (15)	Total/NA	Solid	8015B NM	11273
90-1502-55	BH-55 (15)	Total/NA	Solid	8015B NM	11273
90-1502-56	BH-56 (15)	Total/NA	Solid	8015B NM	11273
90-1502-57	BH-57 (15)	Total/NA	Solid	8015B NM	11273
90-1502-58	BH-58 (15)	Total/NA	Solid	8015B NM	11273
90-1502-59	BH-59 (15)	Total/NA	Solid	8015B NM	11273
90-1502-60	BH-60 (15)	Total/NA	Solid	8015B NM	11273
90-1502-61	BH-61 (15)	Total/NA	Solid	8015B NM	11356
90-1502-62	BH-62 (15)	Total/NA	Solid	8015B NM	11356
90-1502-63	BH-63 (15)	Total/NA	Solid	8015B NM	11356
90-1502-64	BH-64 (15)	Total/NA	Solid	8015B NM	11356
90-1502-65	BH-65 (15)	Total/NA	Solid	8015B NM	11356
90-1502-66	BH-66 (15)	Total/NA	Solid	8015B NM	11356
90-1502-67	BH-67 (15)	Total/NA	Solid	8015B NM	11356
90-1502-68	BH-68 (15)	Total/NA	Solid	8015B NM	11356
90-1502-69	BH-69 (15)	Total/NA	Solid	8015B NM	11356
90-1502-70	BH-70 (15)	Total/NA	Solid	8015B NM	11356
90-1502-71	BH-71 (15)	Total/NA	Solid	8015B NM	11356
90-1502-72	BH-72 (15)	Total/NA	Solid	8015B NM	11356
90-1502-73	BH-73 (15)	Total/NA	Solid	8015B NM	11356
90-1502-74	BH-74 (15)	Total/NA	Solid	8015B NM	11356
90-1502-75	BH-75 (15)	Total/NA	Solid	8015B NM	11356
90-1502-76	BH-76 (15)	Total/NA	Solid	8015B NM	11356
90-1502-77	BH-77 (15)	Total/NA	Solid	8015B NM	11356
90-1502-78	BH-78 (15)	Total/NA	Solid	8015B NM	11356
90-1502-79	BH-79 (15)	Total/NA	Solid	8015B NM	11356
90-1502-80	BH-80 (15)	Total/NA	Solid	8015B NM	11356
MB 880-11273/1-A	Method Blank	Total/NA	Solid	8015B NM	11273

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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 Batc
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.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

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 Batch
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	

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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: 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

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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 Batc
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	
890-1502-5	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	
390-1502-17	BH-17 (6)	Total/NA	Solid	8015 NM	
390-1502-18	BH-18 (6)	Total/NA	Solid	8015 NM	
90-1502-19	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	
390-1502-25	BH-25 (15)	Total/NA	Solid	8015 NM	
90-1502-26	BH-26 (15)	Total/NA	Solid	8015 NM	
90-1502-27	BH-27 (15)	Total/NA	Solid	8015 NM	
390-1502-28	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	
390-1502-49 390-1502-50	BH-50 (15)	Total/NA	Solid	8015 NM	
		Total/NA			
890-1502-51	BH-51 (15)		Solid	8015 NM	
390-1502-52	BH-52 (15)	Total/NA	Solid	8015 NM	
390-1502-53	BH-53 (15)	Total/NA	Solid	8015 NM	
390-1502-54	BH-54 (15)	Total/NA	Solid	8015 NM	
390-1502-55	BH-55 (15)	Total/NA	Solid	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 Batch
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	
390-1502-91	BH-91 (RS) (6)	Total/NA	Solid	8015 NM	
890-1502-92	SW-1 (0-6)	Total/NA	Solid	8015 NM	
390-1502-93	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	
390-1502-105	SW-14 (15)	Total/NA	Solid	8015 NM	
390-1502-106	SW-15 (15)	Total/NA	Solid	8015 NM	
390-1502-107	SW-16 (15)	Total/NA	Solid	8015 NM	
390-1502-108	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	
890-1502-115	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	
890-1502-120	SW-29 (15)	Total/NA	Solid	8015 NM	
890-1502-121	SW-30 (RS) (6)	Total/NA	Solid	8015 NM	
890-1502-122	SW-31 (RS) (4)	Total/NA	Solid	8015 NM	
890-1502-123	SW-32 (RS) (6)	Total/NA	Solid	8015 NM	
890-1502-124	SW-33 (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 Batc
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	

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 Batcl
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

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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
390-1502-29	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
390-1502-32	BH-32 (15)	Soluble	Solid	300.0	11238
390-1502-33	BH-33 (15)	Soluble	Solid	300.0	11238
390-1502-34	BH-34 (15)	Soluble	Solid	300.0	11238
390-1502-35	BH-35 (15)	Soluble	Solid	300.0	11238
390-1502-36	BH-36 (15)	Soluble	Solid	300.0	11238
390-1502-37	BH-37 (15)	Soluble	Solid	300.0	11238
390-1502-38	BH-38 (15)	Soluble	Solid	300.0	11238
90-1502-39	BH-39 (15)	Soluble	Solid	300.0	11238
390-1502-40	BH-40 (15)	Soluble	Solid	300.0	11238
390-1502-41	BH-41 (15)	Soluble	Solid	300.0	11238
390-1502-42	BH-42 (15)	Soluble	Solid	300.0	11238
390-1502-43	BH-43 (15)	Soluble	Solid	300.0	11238
90-1502-44	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

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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Job ID: 890-1502-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

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	Туре	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 Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 5.01 g 5 mL 11075 11/01/21 11:05 KL XEN MID Total/NA 8021B 5 mL 11/03/21 01:08 XEN MID Analysis 1 5 mL 11206 MR Total/NA Total BTEX 11768 XEN MID Analysis 1 11/08/21 17:11 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 11223 11/02/21 11:44 DM 10 mL Total/NA Analysis 8015B NM 11317 11/03/21 12:43 AJ XEN MID Soluble 11227 XEN MID Leach DI Leach 4.96 g 50 mL 11/02/21 11:52 CH Soluble Analysis 300.0 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

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 01:28	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 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 01:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID

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Client: Tetra Tech, Inc.
Project/Site: Kaiser SWD

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

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 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 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	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 XEN MID

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Matrix: Solid

Client Sample ID: BH-7 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-7

Matrix: Solid

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	11237	11/02/21 12:31	CH	XEN MID
Soluble	Analysis	300.0		1			11453	11/07/21 05:59	CH	XEN MID

Client Sample ID: BH-8 (6) Lab Sample ID: 890-1502-8

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			4.97 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	СН	XEN MID
Soluble	Analysis	300.0		5			11453	11/07/21 06:07	CH	XEN MID

Lab Sample ID: 890-1502-9 Client Sample ID: BH-9 (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
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 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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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Lab Sample ID: 890-1502-11

Matrix: Solid

Client Sample ID: BH-11 (6)

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			5.02 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	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 05:34	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 16:22	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 06:51	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	Туре	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

Client Sample ID: BH-14 (6) Lab Sample ID: 890-1502-14 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

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Client Sample ID: BH-14 (6)

Lab Sample ID: 890-1502-14 Matrix: Solid

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	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 **Matrix: Solid**

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

Client Sample ID: BH-16 (6) Lab Sample ID: 890-1502-16

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	СН	XEN MID
Soluble	Analysis	300.0		5			11453	11/07/21 07:35	CH	XEN MID

Client Sample ID: BH-17 (6) Lab Sample ID: 890-1502-17

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 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	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 18:03	AJ	XEN MID

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-1502-1 SDG: 212C-MD-02230

Client Sample ID: BH-17 (6)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-17

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	CH	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	CH	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 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 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

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Matrix: Solid

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1/10/2021

Job ID: 890-1502-1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: BH-21 (6) Lab Sample ID: 890-1502-21

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 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	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	11109	11/01/21 12:05	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11221	11/02/21 18:35	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			10.02 g	10 mL	11255	11/02/21 14:45	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11321	11/03/21 12:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	11237	11/02/21 12:31	CH	XEN MIC
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	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	11/02/21 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

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

	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	11/02/21 19:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID

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Matrix: Solid

Released to Imaging: 9/1/2023 3:25:35 PM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

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	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	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	СН	XEN MID
Soluble	Analysis	300.0		1			11453	11/07/21 08:49	CH	XEN MID

Lab Sample ID: 890-1502-25

Client Sample ID: BH-25 (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			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

Lab Sample ID: 890-1502-26 Client Sample ID: BH-26 (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			4.95 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 **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 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

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

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 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	11238	11/02/21 12:34	СН	XEN MID
l	Soluble	Analysis	300.0		1			11454	11/07/21 10:18	CH	XEN MID

Lab Sample ID: 890-1502-28

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Client Sample ID: BH-28 (15)

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	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

Lab Sample ID: 890-1502-29

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Client Sample ID: BH-29 (15)

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 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 **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			4.98 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

Project/Site: Kaiser SWD Client Sample ID: BH-31 (15)

Client: Tetra Tech, Inc.

Lab Sample ID: 890-1502-31

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	Type	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 23:07	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 16:03	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 11:03	CH	XEN MID

Lab Sample ID: 890-1502-32

Client Sample ID: BH-32 (15) 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 5.00 g 5 mL 11109 11/01/21 12:05 KL XEN MID Total/NA 8021B 5 mL 11/02/21 23:28 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 11255 XEN MID Prep 8015NM Prep 10.03 g 11/02/21 14:45 DM 10 mL Total/NA Analysis 8015B NM 11321 11/03/21 16:24 AJ XEN MID Soluble XEN MID Leach DI Leach 5 g 50 mL 11238 11/02/21 12:34 CH Soluble Analysis 300.0 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	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	11/02/21 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

Client Sample ID: BH-34 (15) Lab Sample ID: 890-1502-34

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	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	СН	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	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	11/03/21 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

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	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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Matrix: Solid

Released to Imaging: 9/1/2023 3:25:35 PM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Lab Sample ID: 890-1502-37

Matrix: Solid

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Client Sample ID: BH-37 (15)

	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	СН	XEN MID
Soluble	Analysis	300.0		5			11454	11/07/21 12:02	CH	XEN MID

Client Sample ID: BH-38 (15) Lab Sample ID: 890-1502-38

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	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) Lab Sample ID: 890-1502-39

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	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) Lab Sample ID: 890-1502-40

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Released to Imaging: 9/1/2023 3:25:35 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			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

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Matrix: Solid

XEN MID

Job ID: 890-1502-1 SDG: 212C-MD-02230

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Lab Sample ID: 890-1502-41

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Client Sample ID: BH-41 (15)

	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 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 q	50 mL	11238	11/02/21 12:34	СН	XEN MID

Client Sample ID: BH-42 (15) Lab Sample ID: 890-1502-42

11454

11/07/21 12:47 CH

Date Collected: 10/27/21 00:00 **Matrix: Solid**

Date Received: 10/29/21 12:45

Analysis

300.0

Soluble

	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 02:46	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 12:32	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 12:54	CH	XEN MID

Client Sample ID: BH-43 (15) Lab Sample ID: 890-1502-43 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 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

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

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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

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	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	СН	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 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

Lab Sample ID: 890-1502-46 Client Sample ID: BH-46 (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			5.01 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	СН	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	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 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
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	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 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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Matrix: Solid

Client Sample ID: BH-51 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-51

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		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 16:03	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	11240	11/02/21 12:39	CH	XEN MID
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

	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 08:36	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			10.03 g	10 mL	11273	11/02/21 16:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 16:24	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 05:54	CH	XEN MID

Client Sample ID: BH-53 (15) Lab Sample ID: 890-1502-53 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			4.96 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

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

	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	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

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Released to Imaging: 9/1/2023 3:25:35 PM

Matrix: Solid

Client Sample ID: BH-54 (15)

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-54

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	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)

Date Collected: 10/27/21 00:00

Lab Sample ID: 890-1502-55

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 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)

Date Collected: 10/27/21 00:00

Lab Sample ID: 890-1502-56

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

Client Sample ID: BH-57 (15)

Lab Sample ID: 890-1502-57

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			4.96 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 XEN MID

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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	СН	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	Туре	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
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	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

	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	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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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Lab Sample ID: 890-1502-61

Matrix: Solid

Client Sample ID: BH-61 (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			5.02 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

Lab Sample ID: 890-1502-62

Matrix: Solid

Date Collected: 10/27/21 00:00 Date Received: 10/29/21 12:45

Client Sample ID: BH-62 (15)

	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 06:08	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			10.02 g	10 mL	11356	11/03/21 10:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/03/21 22:16	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	11240	11/02/21 12:39	CH	XEN MID
Soluble	Analysis	300.0		5			11455	11/08/21 07:41	CH	XEN MID

Client Sample ID: BH-63 (15) Lab Sample ID: 890-1502-63

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	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	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 06:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-1502-1 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

	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	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

Lab Sample ID: 890-1502-65 Client Sample ID: BH-65 (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			5.05 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 07:09	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	11/05/21 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	11/03/21 23:21	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 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

Lab Sample ID: 890-1502-67 Client Sample ID: BH-67 (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			5.04 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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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1

SDG: 212C-MD-02230

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** Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 5.02 g 11112 11/01/21 12:13 KL XEN MID Prep 5 mL Total/NA 8021B 5 mL 5 mL 11/03/21 08:10 MR XEN MID Analysis 1 11221 Total/NA Total BTEX 11768 XEN MID Analysis 11/09/21 10:40 AJ 1 Total/NA Analysis 8015 NM 11598 11/05/21 13:50 AJ XEN MID XEN MID Total/NA Prep 8015NM Prep 10.01 g 10 mL 11356 11/03/21 10:38 DM 8015B NM Total/NA Analysis 11323 11/04/21 00:23 AJ XEN MID 50 mL Soluble DI Leach 4.96 g 11242 11/02/21 12:43 CH XEN MID Leach 300.0 Analysis 5 11456 11/08/21 09:36 CH XEN MID Soluble

Client Sample ID: BH-69 (15) Lab Sample ID: 890-1502-69

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			4.98 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 08:30	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	11356	11/03/21 10:38	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11323	11/04/21 00:44	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 09:44	CH	XEN MID

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

	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	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

Job ID: 890-1502-1 Client: Tetra Tech, Inc. 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

Lab Sample ID: 890-1502-71

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	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) Lab Sample ID: 890-1502-72 Date Collected: 10/28/21 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 11112 Total/NA 4.97 g 5 mL 11/01/21 12:13 KL XEN MID Total/NA 8021B 5 mL 11/03/21 11:00 XEN MID Analysis 1 5 mL 11221 MR 11/09/21 10:40 Total/NA Total BTEX 11768 XEN MID Analysis 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 11356 11/03/21 10:38 DM 10 mL Total/NA Analysis 8015B NM 11323 11/04/21 02:09 AJ XEN MID Soluble XEN MID Leach DI Leach 5.05 g 50 mL 11242 11/02/21 12:43 CH Soluble Analysis 300.0 1 11456 11/08/21 10:22 CH XEN MID

Client Sample ID: BH-73 (15) Lab Sample ID: 890-1502-73 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 11:21	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	11/05/21 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

Lab Sample ID: 890-1502-74 Client Sample ID: BH-74 (15) 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			5.02 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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Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-1502-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

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) Lab Sample ID: 890-1502-75

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	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) Lab Sample ID: 890-1502-76 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	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

Lab Sample ID: 890-1502-77 Client Sample ID: BH-77 (15)

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	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	11242	11/02/21 12:43	СН	XEN MID
Soluble	Analysis	300.0		5			11456	11/08/21 12:34	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	Туре	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	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 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

Released to Imaging: 9/1/2023 3:25:35 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			5.04 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: Tetra Tech, Inc. Project/Site: Kaiser SWD

Lab Sample ID: 890-1502-81

Matrix: Solid

Matrix: Solid

Client Sample ID: BH-81 (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
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 MID
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

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)

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			5.00 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	CH	XEN MID
Soluble	Analysis	300.0		1			11456	11/08/21 12:17	CH	XEN MID

Client Sample ID: BH-84 (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
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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Released to Imaging: 9/1/2023 3:25:35 PM

Lab Sample ID: 890-1502-83 **Matrix: Solid**

Lab Sample ID: 890-1502-84 **Matrix: Solid**

Project/Site: Kaiser SWD

Client: Tetra Tech, Inc.

Lab Sample ID: 890-1502-84

Matrix: Solid

Client Sample ID: BH-84 (15)

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	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

Lab Sample ID: 890-1502-85

Client Sample ID: BH-85 (15) 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			5.03 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) Lab Sample ID: 890-1502-86

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	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

Lab Sample ID: 890-1502-87 Client Sample ID: BH-87 (15)

Date Collected: 10/28/21 00:00 **Matrix: Solid** Date Received: 10/29/21 12:45

Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Prep	5035			5.01 g	5 mL	11113	11/01/21 12:16	KL	XEN MID
Analysis	8021B		1	5 mL	5 mL	11374	11/03/21 19:57	MR	XEN MID
Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID
Analysis	8015 NM		1			11598	11/08/21 15:54	AJ	XEN MID
Prep	8015NM Prep		1	10.05 g	10 mL	11364	11/03/21 11:37 11/04/21 13:59	DM AJ	XEN MID
	Type Prep Analysis Analysis Analysis Prep	Type Method Prep 5035 Analysis 8021B Analysis Total BTEX Analysis 8015 NM Prep 8015NM Prep	Type Method Run Prep 5035 Analysis 8021B Analysis Total BTEX Analysis 8015 NM Prep 8015NM Prep	Type Method Run Factor Prep 5035 Factor Analysis 8021B 1 Analysis Total BTEX 1 Analysis 8015 NM 1 Prep 8015NM Prep	Type Method Run Factor Amount Prep 5035 5.01 g Analysis 8021B 1 5 mL Analysis Total BTEX 1 1 Analysis 8015 NM 1 1	Type Method Run Factor Amount Amount Prep 5035 5.01 g 5 mL Analysis 8021B 1 5 mL 5 mL Analysis Total BTEX 1	Type Method Run Factor Amount Amount Number Prep 5035 5.01 g 5 mL 11113 Analysis 8021B 1 5 mL 5 mL 11374 Analysis Total BTEX 1 1768 11768 Analysis 8015 NM 1 10.05 g 10 mL 11364	Type Method Run Factor Amount Amount Number or Analyzed Prep 5035 5.01 g 5 mL 11113 11/01/21 12:16 Analysis 8021B 1 5 mL 5 mL 11374 11/03/21 19:57 Analysis Total BTEX 1 1 11768 11/09/21 10:40 Analysis 8015 NM 1 1 11598 11/08/21 15:54 Prep 8015 NM Prep 10.05 g 10 mL 11364 11/03/21 11:37	Type Method Run Factor Amount Amount Number or Analyzed Analyst Prep 5035 5.01 g 5 mL 11113 11/01/21 12:16 KL Analysis 8021B 1 5 mL 5 mL 11374 11/03/21 19:57 MR Analysis Total BTEX 1 1 11768 11/09/21 10:40 AJ Analysis 8015 NM 1 1 11598 11/08/21 15:54 AJ Prep 8015 NM Prep 10.05 g 10 mL 11364 11/03/21 11:37 DM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-1502-1 SDG: 212C-MD-02230

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 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	11243	11/02/21 12:46	СН	XEN MID
Soluble	Analysis	300.0		1			11705	11/09/21 13:22	CH	XEN MID

Lab Sample ID: 890-1502-88

Matrix: Solid

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45

Client Sample ID: BH-88 (15)

	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	11/03/21 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	Type	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)

Lab Sample ID: 890-1502-90

Matrix: Solid

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			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

Project/Site: Kaiser SWD

Client Sample ID: BH-91 (RS) (6)

Client: Tetra Tech, Inc.

Lab Sample ID: 890-1502-91

Date Collected: 10/28/21 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	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

Lab Sample ID: 890-1502-92

Client Sample ID: SW-1 (0-6) 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			5.00 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 23:09	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			10.03 g	10 mL	11364	11/03/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11416	11/04/21 16:07	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	11233	11/02/21 12:00	CH	XEN MID
Soluble	Analysis	300.0		5			11381	11/07/21 02:54	CH	XEN MID

Client Sample ID: SW-2 (0-6) Lab Sample ID: 890-1502-93

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			5.01 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

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

	Datah	Datah		Dil	Initial	Final	Datah	Duamanad		
D T	Batch	Batch	D	Dil	Initial	Final	Batch	Prepared	A l 4	11-
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 23:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/09/21 10:40	AJ	XEN MID

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

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 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 11416 11/04/21 16:51 ΑJ XEN MID 1 5.05 g 11233 11/02/21 12:00 XEN MID Soluble Leach DI Leach 50 mL CH 300.0 11/07/21 03:24 Soluble Analysis 1 11381 CH XEN MID

Client Sample ID: SW-4 (0-6)

Date Collected: 10/25/21 00:00

Lab Sample ID: 890-1502-95

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	11/04/21 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)

Date Collected: 10/25/21 00:00

Date Received: 10/29/21 12:45

Lab Sample ID: 890-1502-96

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			5.04 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 00:30	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	11/08/21 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

Client Sample ID: SW-6 (0-6)

Lab Sample ID: 890-1502-97

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	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 17:56	AJ	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: SW-6 (0-6)

Lab Sample ID: 890-1502-97

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	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	11233	11/02/21 12:00	СН	XEN MID
Soluble	Analysis	300.0		10			11381	11/07/21 04:01	CH	XEN MID

Lab Sample ID: 890-1502-98

Matrix: Solid

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45

Client Sample ID: SW-7 (0-6)

	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	11113	11/01/21 12:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11374	11/04/21 01:11	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	11364	11/03/21 11:37	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11416	11/04/21 18:17	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11233	11/02/21 12:00	CH	XEN MID
Soluble	Analysis	300.0		10			11381	11/07/21 04:08	CH	XEN MID

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)

	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

Client Sample ID: SW-9 (0-6) Lab Sample ID: 890-1502-100

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			5.01 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

Job ID: 890-1502-1 Client: Tetra Tech, Inc. 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	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 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 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 11114 Total/NA 5.00 g 5 mL 11/01/21 12:18 KL XEN MID Total/NA 8021B 5 mL 11/04/21 05:49 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 XEN MID Prep 8015NM Prep 10.02 g 11375 11/03/21 13:15 DM 10 mL Total/NA Analysis 8015B NM 11418 11/04/21 12:11 AJ XEN MID Soluble XEN MID Leach DI Leach 5.01 g 50 mL 11236 11/02/21 12:22 CH

Client Sample ID: SW-12 (10) Lab Sample ID: 890-1502-103 Date Collected: 10/26/21 00:00 **Matrix: Solid**

11452

11/08/21 09:36

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			5.03 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

Lab Sample ID: 890-1502-104 Client Sample ID: SW-13 (15) Date Collected: 10/26/21 00:00

Date Received: 10/29/21 12:45

Γ										
	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	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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Released to Imaging: 9/1/2023 3:25:35 PM

XEN MID

Job ID: 890-1502-1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-13 (15)

Date Collected: 10/26/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-104

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			10.01 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	СН	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

	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	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 **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	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

	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 Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.05 g	10 mL	11375 11418	11/03/21 13:15 11/04/21 13:59	DM AJ	XEN MID XEN MID

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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	CH	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	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 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

	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

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Client Sample ID: SW-20 (15)

Lab Sample ID: 890-1502-111 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			4.96 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	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 10:41	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 16:07	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	11236	11/02/21 12:22	CH	XEN MID
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

Г	5	5.4.1		5		-	5.4.			
	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	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

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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	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			10.03 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	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 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	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 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

Lab Sample ID: 890-1502-117 Client Sample ID: SW-26 (15) 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			5.05 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

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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	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 **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			4.98 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** 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	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

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-1502-1

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)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-122

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)

Date Collected: 10/28/21 00:00 Date Received: 10/29/21 12:45 Lab Sample ID: 890-1502-123

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	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

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	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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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)

Lab Sample ID: 890-1502-124 Date Collected: 10/28/21 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	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

Eurofins Xenco, Carlsbad

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	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-21-22	06-30-22
The following analytes	are included in this report, but	it the laboratory is not certifi	ed by the governing authority. This list ma	y include analytes for w
the agency does not of	fer certification.	,	, g	ly molade analytes for the
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte	y moduce analytee for the
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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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Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-1502-1 SDG: 212C-MD-02230

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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		Solid	10/27/21 00:00		6
890-1502-24	BH-23 (6)			10/29/21 12:45	6
	BH-24 (6)	Solid	10/27/21 00:00	10/29/21 12:45	
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	
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
890-1502-50	BH-50 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
890-1502-51	BH-51 (15)	Solid	10/27/21 00:00	10/29/21 12:45	15
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
000 4500 54	DI = 4 (45)	0 "1	40/07/04 00 00	10/00/01 10 15	4-

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	
890-1502-92	SW-1 (0-6)	Solid	10/25/21 00:00	10/29/21 12:45	
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
890-1502-100 890-1502-101	SW-9 (0-6)	Solid Solid	10/26/21 00:00 10/26/21 00:00	10/29/21 12:45	0 - 6
890-1502-101	SW-10 (0-6)	Solid		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
890-1502-108	SW-17 (15)	Solid	10/26/21 00:00	10/29/21 12:45	15

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

Date: Time:		Date:	June 10/2															Receiving Laboratory:		Project Location: (county, state)				eques
		e: Time:		BH-10 (6')	BH-9 (6')	BH-8 (6')	вн-7 (6')	BH-6 (6')	BH-5 (6')	BH-4 (6")	BH-3 (6')	BH-2 (6')	BH-1 (6')		SAMPLE IDENTIFICATION			Eurofins Xenco	Dusty McInturff - Permian Water Solutions	Lea County, New Mexico	Kaiser SWD	Permian Water Solutions	Tetra Tech, Inc.	Analysis Request of Chain of Custody Record
Received by:		Received by: V	Chear	10/27/2021	10/27/2021	10/27/2021	10/27/2021	10/27/2021	10/27/2021	10/27/2021	10/27/2021	10/27/2021	10/27/2021	DATE	YEAR: 2020	SAMPLING		Sampler Signature:		Project #:		Site Manager:	88	
Date: Time:		Date: Time:	77	Date: X		×	×	×	×	×	×	×	×	HCL HNO ₃ ICE None		MATRIX PRESERVATIVE		Ezequiel Moreno		212C-MD-02230		Clair Gonzales	20-1502 Chain of Custody	
2	2.4 Rush Charges Authorized	Sample Temperature	ONLY X STANDARD	X REMARKS:	×	×	×	×	×	×	×	×		FILTER BTEX 8 TPH TX TPH 80 PAH 82 Total Me TCLP M TCLP Sc RCI GC/MS RCI GC/MS PCB's 8 NORM PLM (As Chloride Genera	ED (YOUR SEED (YOUR SEED (YOUR SE	BTE (Ext to C GRO SECOND SECON	C35) - DRO - Ba Cd Cr Ba Cd C 624 -270C/62 TDS mistry (s	Pb Se r Pb Se	Hg Hg	st)		ST Specific Method N		Page1 of
	Received by: Date: Time: 2.2	Time: Received by: Date: Time: 2.7	Time: Received by: V Date: Time: Sample Temperature Rush: Same Day 24 hr 48 hr Rush Charges Authorized Time: Received by: Date: Time: 2,2 Special Report Limits or TRRP Repo	12:45 (LOC CLAST 10.29.2) 1245 ONLY Time: Received by: Date: Time: Sample Temperature 7:me: Received by: Date: Time: 2.4	Time: Received by: Date: Time: LAB USE REMARKS: 1/2:4/5 (Lee Use) 10:29:21 12:4/5 ONLY Rush: Sample Temperature Time: Received by: Date: Time: Sample Temperature Rush Charges Authorized Time: Received by: Date: Time: 2:4 Rush Charges Authorized Time: Received by: Date: Time: 2:2 Special Report Limits or TRRP Report	Time: Received by: Date: Time: LAB USE Ime: REMARKS: 17:45 QUEWED 10:29:21 12:45 ONLY Received by: Date: Time: Sample Temperature RUSH: Same Day 24 hr 48 hr Time: Received by: Date: Time: 3:4 Rush Charges Authorized Time: Received by: Date: Time: 3:4 Rush Charges Authorized	10/27/2021 X	10/27/2021 TIME TIME 10/27/2021 TIME	1027/2021 1027	Samplud Samp	Received by: Date: Time:	Received by: Date: Time:	Contained by: Date: Time:	Project #: 212C-MD-02230 Project #: 212C-MD-	Mailer Solutions Sampler Signature:	Maler Solutions	Maler Solutions Sampler Sentature: 212C-MD-02230							

Relinquished by:		Relinquished by:	Trud 1	Relinquished by:											(LAB USE)	LAB #		Comments:	Receiving Laboratory:	invoice to:	Project Location: (county, state)	Project Name:	Client Name:	4
Date: Time:		Date: Time:	16129121 12:45	Time	BH-20 (6')	вн-19 (6')	BH-18 (6')	BH-17 (6')	BH-16 (6')	BH-15 (6')	BH-14 (6')	BH-13 (6')	BH-12 (6')	BH-11 (6')		SAMPLE IDENTIFICATION			Eurofins Xenco	Dusty McInturff - Permian Water Solutions	Lea County, New Mexico	Kaiser SWD	Permian Water Solutions	Tetra Tech, Inc.
Received by:		Received by:	(\)\undergoon (\)\undergoon (\)	Received by:	10/27/2021	10/27/2021	10/27/2021	10/27/2021	10/27/2021	10/27/2021	10/27/2021	10/27/2021	10/27/2021	10/27/2021	DATE	YEAR: 2020	SAMPLING		Sampler Signature:		Project #:		Site Manager:	
			8	_	×	×	×	×	×	×	×	×	×	×	WATE SOIL	R	MATRIX		Eze		212		Clair G	901W Midian Tel (43
Date:		Date: I	0.29	Date: T	×	×	×	×	×	×	×	×	×	×	HCL HNO ₃ ICE		X PRESERVATIVE		Ezequiel Moreno		212C-MD-02230		Clair Gonzales	Tel (432) 682-4559 Tel (432) 682-4559 Fa (432) 682-4559
Time:		Time:	1.21	Time:											None # CON	TAINE			ō		0			Fax
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		Sample		Г	×	×	×	×	×	×	×	×	×	×	BTEX 8			X 8260 C35)	В				Ą	
		Sample Temperature	ONLY	AB USE	×	×	×	×	×	×	×	×	×	×	TPH 80		(GRO	- DRO -	ORO -	MRO)			ANALYSIS	
		erature	~	SE											Total M	etals .		Ba Cd Cr				<u> </u>		
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		Ц] [REMARKS											TCLP S	emi \	olatiles	S					EST	
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Special Report Limits or TRRP Report	ď.	111.42			F			F		F			F		Chlorid		Sulfate	TDS mistry (s	ee att	ached I	ist)			
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(Circle) HAND DELIVERED FEDEX UPS Tracking #

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	29/2		<i>J J</i> .			PM																		Pag
Relinquished by:		Relinquished by:	Kund M	Relinquished by:											(LAB USE)	LAB #		Comments:	Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:	4
Date: Time:		Date: Time:	10/29/11 11:46	: Time:		BH-39 (15')	BH-38 (15')	BH-37 (15')	вн-36 (15')	ВН-35 (15')	BH-34 (15')	BH-33 (15')	BH-32 (15')	BH-31 (15')		SAMPLE IDENTIFICATION			Eurofins Xenco	Dusty McInturff - Permian Water Solutions	Lea County, New Mexico	Kaiser SWD	Permian Water Solutions	Tetra Tech, Inc.
Received by:		Received by:	I LIVE LAX	Received by:	10/27/2021	10/27/2021	10/27/2021	10/27/2021	10/27/2021	10/27/2021	10/27/2021	10/27/2021	10/27/2021	10/27/2021	DATE	YEAR: 2020	SAMPLING		Sampler Signature:		Project #:		Site Manager:	
Date:		Date:	P 0.54-51	Date:	L	×	×	×	×	×	×	×	×	×	WATE SOIL HCL HNO ₃	R	MATRIX PRESI		Ezequiel Moreno		212C-MD-02230		Clair Gonzales	901W Wall Street, Sie 100 Midland, Texas 79705 Tel (432) 682-4559 Fer (432) 682-3945
Time:		Time:	21045	lime:	×	×	×	×	×	×	×	×	×	×	ICE None # CONT				eno		230			9 100 Fax
		Sample Temperature	ONLY	LAB USE	×	×		×	×	×	×	×	×	×	BTEX 8 TPH T) TPH 80 PAH 82 Total M	8021E K1005 015M 270C etals	BTI (Ext to (GRO		ORO - Pb Se	Hg			ANALYSIS RE	
Special Repo	Rush Charges Authorized	RUSH: Same Day		STANDARD											TCLP V TCLP S RCI GC/MS	Vol.	olatiles 8260B	5					REQUEST (Circle or Specify	
Special Report Limits or TRRP Report	s Authorized	no Day 24 hr 48 hr)ARD	×	×	×	×	×	×	×	×	×	×	NORM PLM (A Chloride	sbest e e S	os) Sulfate ter Che	emistry (s	see atta	ached li	ist)		fv Method No.	
port		7277													Hold								•	

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BH-76 (15') BH-78 (15') BH-78 (15') BH-80 (15') BH-80 (15') Pate: Control Date: Date:	1 More		8H-76 8H-77 8H-78 8H-79 8H-80	8H-76 (1 8H-78 (1 8H-79 (1	BH-76 (1 BH-78 (1 BH-78 (1	8H-77 (1 8H-77 (1	8H-77 (1	PH-/6 (1	D11 26 (4	BH-75 (15')	вн-74 (15')	BH-73 (15')	BH-72 (15')	BH-71 (15')		SAMPLE IDENTIFICATION		Comments:	Receiving Laboratory: Eurofins Xenco	Invoice to: Dusty McInturff - Pe	Project Location: Lea County, New Mexico	Project Name: Kaiser SWD	Client Name: Permian Water Solutions	16	Tetra 7	Analysis Request of Chain of Custody Record
Date: Time:				Date: Time:	אוא	15')	15')	15')	15')	15')	15')	15')	15')	15')		IFICATION				Dusty McInturff - Permian Water Solutions	exico		ıtions		Tetra Tech. Inc.	ecord
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		7		t	×	×	×	×	×	×	×	×	×	×	WATER SOIL	₹	MATRIX		Ezequ		212C-		Clair Gonzales	Tel (432) 682-4559 (432) 682-3	901W Wall Street, S Midland,Texas 79705	
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	Relinquished by:		Relinquished by:	Kul 1	Relinquished by:											(LAB USE)	LAB #		Comments:	Vacaisiii R rapoi atoi A.	invoice to:	Project Location: (county, state)	Project Name:	Client Name:	4	Alidiysis neque:
	Date: Time:		Date: Time:	94:21 12/82/01	Date: Time:	BH-90 (RS) (6')	BH-89 (15')	BH-88 (15')	BH-87 (15')	BH-86 (15')	BH-85 (15')	BH-84 (15')	BH-83 (15')	BH-82 (15')	BH-81 (15')		SAMPLE IDENTIFICATION			Eurofins Xenco	Dusty McInturff - Permian Water Solutions	Lea County, New Mexico	Kaiser SWD	Permian Water Solutions	Tetra Tech, Inc.	Alarysis Request of Citam of Custody Record
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Relinquished by:		Relinquished by:	1	Relinquished by:											ONLY)	LAB #		Comments:	Receiving Laboratory:	invoice to:	Project Location: (county, state)	Project Name:	Client Name:	4
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Relinquished by:	Relinquished by:	1	The initial part of the part o											LAB USE)	LAB#		Comments:	Receiving Laboratory:	invoice to:	Project Location: (county, state)	Project Name:	Client Name:	4
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Received by:	Received by:			10/26/2021	10/26/2021	10/26/2021	10/26/2021	10/26/2021	10/26/2021	10/26/2021	10/26/2021	10/26/2021	10/26/2021	DATE	YEAR: 2020	SAMPLING		Sampler Signature:		Project #:		Site Manager:	
Date: Time:	Date:	-	0 18.53.01 o	F	×		×	×	×	×	×	×	×	WATER SOIL HCL HNO ₃ ICE None	2	MATRIX PRESERVATIVE METHOD		Ezequiel Moreno		212C-MD-02230		Clair Gonzales	901W Wail Street, Sie 100 Midlend, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946
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	Relinquished by:		Relinquished by:	Kind R	Relinquished by:											ONLY)	LAB#		Comments:	Receiving Laboratory:	nvoice to:	Project Location: (county, state)	Project Name:	Client Name:	1
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Date/Time

Company Company

Cooler Temperature(s) °C and Other Remarks:

Custody Seal No

Deliverable Requested | II III IV Other (specify)

Primary Deliverable Rank 2

Date

Time

Special Instructions/QC Requirements

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mont

Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199 1

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Eurofins Xenco, Carlsbad

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Chain of Custody Record

(Sub Contract Lob)	Sampler			Lab PM	-		'						Can	Carrier Tracking No(s)	cking	No(s	Ĭ			8	COC No:
Client Contact: (Sub Contract Lab)	Phone			F-Mail	Ğ.	SSIC	à						2	State of Origin	ži					280	890-488 1 Page
eceiving				jessica kramer@eurofinset com	ă Kr	mer	Ое (rofin	set c	ì			Ne S	New Mexico	Š					Page	Page 1 of 14
Company: Eurofins Xenco					N ccre	p ditatio	ns Re	quirec	NE (See	Accreditations Required (See note):	1	SEXO	ŀ		I			- 1	l	# doc	Job#:
Address 1211 W Florida Ave,	Due Date Requested 11/4/2021					ı				Analys	ō I	R	is Requested	<u> </u>	-	- 1				Pres	Preservation Codes
City Midland	TAT Requested (days)	s)			180 July 1	terresidadel	-	\dashv	\dashv	\dashv		ᅥ	寸	\dashv		一	\neg	一	190 g estatus 10	082	NaOH N None
State Zip: TX, 79701					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	i seeks TPH													Ž.		
Phone: 432-704-5440(Tel)	PO#:				Entra Grave) Full	,	e											eve navete)		MeOH R
	WO#·				630,250,s.str.			Chlorid													Ice DI Water
Project Name: Kaiser SWD	Project #: 88000039				2000001500091700								***************************************						ainer	_ X	EDTA W pH 4-5 EDA 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/oil, BT=Tissue, A=Air)	Field Filtered Perform MS/M	8015MOD_NM/8	8021B/5035FP_	300_ORGFM_28	Total_BTEX_GC	8015MOD_Calc									Total Number		Special Instructions/Note
	M	X	Preservation Code:	on Code:	\Leftrightarrow	\triangle		أرجعا	aged							14-75 1			X		
ВН-1 (6) (890-1502-1)	10/27/21	Mountain		Solid		×	×	×	×	×									40		
ВН-2 (6) (890-1502-2)	10/27/21	Mountain		Solid		×	×	×	×	×	-								- (1)		***************************************
ВН-3 (6) (890-1502-3)	10/27/21	Mountain		Solid		×	×	×	×	×	$\widehat{}$		$\neg \neg$			\neg	\neg		4		
BH-4 (6) (890-1502-4)	10/27/21	Mountain		Solid		×	×	×	×	×	$\widehat{}$		_						أريضو		
ВН-5 (6) (890-1502-5)	10/27/21	Mountain		Solid		×	×	×	×	×				\neg	$\neg \uparrow$				4		
BH-6 (6) (890-1502-6)	10/27/21	Mountain		Solid	\dashv	×	×	×	×	×	$\widehat{}$			_	_			一			
BH-7 (6) (890-1502-7)	10/27/21	Mountain		Solid		×	×	×	×	×	$\stackrel{\sim}{+}$	_	$\neg \dagger$						ال خات		
BH-8 (6) (890-1502-8)	10/27/21	Mountain		Solid		×	×	×	×	×	$\hat{-}$								*		1000 PROPERTY.
BH-9 (6) (890-1502-9)	10/27/21	Mountain		Solid		×	×	×	^ ×	×	$\widehat{}$								A		
Note Since laboratory accreditations are subject to change. Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories.	ices the ownership o	f method, ana	llyte & accredita	ition compliance	upo	out:	subco	ntract	labora	tories	쿄	samp	le shi	ment	is for	warde	un l	er ch	in-of-	custo	his sample shipment is forwarded under chain-of-custody. If the laboratory does not currently
attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.	signed Chain of Cust	ody attesting	to said complica	ance to Eurofins	s Xeni	N E	S.	atory o	i onie	IIISI	uction	WIII	e pro	/idea	Any	chang	es to	accre	itatio	State	atus sriodid be brought to Eurotins Xenco LLC
Possible Hazard Identification					s	amp	le D	spo	sal (A fe	e ma	y be	asse	sse	ifs	amp	les :	rer	tain	ed h	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Company

Company

Phone 575-988-3199 Fax 575-988-3199

Carlsbad NM 88220

1089 N Canal St

Chain of Custody Record

eurofins :

Environment Testing

BH-17 (6) (890-1502-17) BH-16 (6) (890-1502-16) Project Name: Kaiser SWD State Zip.
TX 79701 BH-18 (6) (890-1502-18) BH-15 (6) (890-1502 15) BH-14 (6) (890-1502-14) BH-12 (6) (890-1502-12) Empty Kit Relinquished by Deliverable Requested | | | | | | | | | Other (specify) vote 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 naintain 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
attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC. BH-13 (6) (890-1502-13) BH-11 (6) (890-1502-11) BH-10 (6) (890-1502-10) Phone: 432-704-5440(Tel) Sample Identification - Client ID (Lab ID Midland elinquished by: elinquished by: ossible Hazard Identification Shipping/Receiving Client Information 1211 W Florida Ave urofins Xenco Custody Seals Intact: inquished by: Ύes S (Sub Contract Lab) Custody Seal No Project # 88000039 Date/Time Primary Deliverable Rank 2 Due Date Requested 11/4/2021 Phone TAT Requested (days): Sample Date 10/27/21 10/27/21 10/27/21 10/27/21 10/27/21 10/27/21 10/27/21 10/27/21 Time 0/27/21 Date Mountain Mountain Mountain Mountain Mountain Mountain Mountain Mountain Mountain G=grab) (C=comp, Preservation Code: Туре Company BT=Tissue, A=Air Company Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid jessica kramer@eurofinset com Kramer Jessica Ime Accreditations Required (See note)
NELAP - Louisiana NELAP - Texas Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon Special Instructions/QC Requirements Perform MS/MSD (Yes or No) Cooler Temperature(s) °C and Other Remarks × × × × × \times × × × 8015MOD_NM/8015NM_S_Prep (MOD) Full TPH × × × × \times × × 8021B/6036FP_Calc BTEX × × × × × × × × × 300_ORGFM_28D/DI_LEACH Chloride × \times × × × × \times × × Total BTEX GCV Analysis Requested 8015MOD_Calc × × × × × × × × × State of Origin New Mexico Carrier Tracking No(s) Date/Time Date/Time Æ, Total Number of containers -الانتيار رکند. -200 gages T J - Di Water K EDTA L EDA COC No 890-488 2 πe Page 2 of 14 Preservation Codes 390-1502-1 NaOH
Zn Acetate
Nitric Acid
NaHSO4
MeOH
Ascorbic Acid Special Instructions/Note ΣΣΟσΩαω⊢ Company I Hexane
I None
J AsNaO2
J Na2O4S
J Na2O4S
J Na2S2O3
R Na2S2O3
R Na2S2O3
R H2SO4
T TSP Dodecaflydrate
J Acetone other (specify) E

Eurofins Xenco, Carlsbad

Chain of Custody Record

State Zip TX 79701 BH-25 (15) (890-1502-25) BH 20 (6) (890-1502-20) BH-19 (6) (890-1502-19) 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
attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC. BH-26 (15) (890-1502-26) BH-24 (6) (890-1502-24) BH-23 (6) (890-1502-23) BH-21 (6) (890-1502-21) Kaiser SWD Possible Hazard Identification BH-27 (15) (890-1502-27) BH-22 (6) (890-1502-22) Sample Identification - Client ID (Lab ID 432-704-5440(Tel) Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199 Deliverable Requested I II III IV Other (specify) Midland 1211 W Florida Ave linquished by linquished by: npty Kit Relinquished by urofins Xenco inquished by npping/Receiving ient Information (Sub Contract Lab) Custody Seal S Project # 88000039 Date/Time Primary Deliverable Rank. 2 Due Date Requested 11/4/2021 Phone Jate/Time FAT Requested (days): Sample Date 10/27/21 10/27/21 Time 10/27/21 10/27/21 10/27/21 10/27/21 0/27/21 10/27/21 0/27/21 Date Mountain Mountain Mountain Mountain Mountain Mountain Mountain Mountain Mountain Sample G=grab) (C=comp, Type Preservation Code: BT=Tissue, A≃Ai Company Company Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid jessica kramer@eurofinset com E-Mail Kramer Jessica NELAP - Louisiana NELAP - Texas ime Perform MS/MSD (Yes or No) Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon Special Instructions/QC Requirements 8015MOD_NM/8015NM_S_Prep (MOD) Full TPH Received by \times × × × × × × Cooler Temperature(s) °C and Other Remarks \times \times × × \times × × × × 8021B/5035FP_Calc BTEX × × × × × × 300_ORGFM_28D/DI_LEACH Chloride × × × Total BTEX GCV × × × × × × × × × Analysis Requested 8015MOD_Calc × × × \times \times × × × × State of Origin
New Mexico Carrier Tracking No(s) Date/Time Total Number of containers -print. . 2000 . درې**ند**ندو ** A HCL
A NACH
A Zn Acetate
C Zn Acetate
D Nitric Acid
E NAHSO4
F Mach
G Amethor
H Ascorbic Acid
I Ice
J Di Water
K EDTA
L EDA COC No: 890-488 3 Page 3 of 14 Preservation Codes 390-1502-1 Special Instructions/Note Q K S L J S S N TOZZ M Hexane
V None
D AsNaC2
Na2O4S
Na2SC3
RA2SC3
RA2S2C3
R12SC4
FTSP Dodecahydrate Company Company MCAA / pH 4-5 other (specify) Acetone Months E

eurofins |

Environment Testing America

Custody Seal No

Cooler Temperature(s) °C and Other Remarks.

Ver: 06/08/2021

Eurofins Xenco, Carlsbad

1089 N Canal St.

Chain of Custody Record

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Frome 5/5-988-3199 Fax 5/5-988-3199	Sampler:			l ah DM										1					l	3]
Client Information (Sub Contract Lab)	Ostropic Control			Kram	Kramer Jessica	ssica	שנ	l	ı				Call	Camer Tracking No(s)	King	No(s)				8 C	890-488 4		
Shipping/Receiving	Phone			E-Mail. jessic	E-Mail. jessica.kramer@eurofinset.com	mer@)eun	ofins	et.co	3			State	State of Origin: New Mexico	G gin:					Page.	Page. Page 4 of 14		
Company: Eurofins Xenco					Accreditations Required (See note) NELAP - Louisiana NELAP	ccreditations Required (See note)	s Req	ana (NEC 1	P @	Texas	"				ı		I		8 E	Job #:		
Address 1211 W Florida Ave	Due Date Requested 11/4/2021	o.							Α	7 1		R	Requested	ted.					ı	핗	Preservation Codes		
City: Midland	TAT Requested (days)	/s)·				· · · · · · · · · · · · · · · · · · ·				ヿ							1	\dashv) 00 ≻			
State Zip TX 79701					<u> </u>	TPH	***************************************													пσ	Nitric Acid P	Na2O4S Na2SO3	
Phone: 432-704-5440(Tel)	PO #:				<u>).</u>	D) Full		le												r ດ ⊤i	MeOH R		
Email	# OW				99700000000000	trettilketimen		Chloric													lice L	Acetone MCAA	
Project Name Kaiser SWD	Project #: 88000039				W97769W	Stad Hillians	EX	EACH		··									ainer	「ス	EDTA W	V pH 4-5 other (specify)	
Site	SSOW#				CANDESCO.	Milastra Sillar	Calc BT	BD/DI_L	SV.										of con	Ş	Other [.]		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab) B	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Perform MS/N	8015MOD_NM/8	8021B/6036FP_	300_ORGFM_2	Total_BTEX_G	8015MOD_Calc							·		Total Number	50 Mad 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Special Inst	Special Instructions/Note	
		X	930000	Successive	$\stackrel{>}{>}$				ą.		To Control		Section 1	200					X				_1
BH-28 (15) (890-1502-28)	10/27/21	Mountain		Solid		×	×	×	×	×						100,000			ا يعي		- The state of the		
BH-29 (15) (890-1502-29)	10/27/21	Mountain		Solid		×	×	×	×	×									<u></u>	i	THE RESERVE OF THE PERSON OF T	The state of the s	
BH-30 (15) (890-1502-30)	10/27/21	Mountain		Solid		×	×	×	×	×										tteret)		***************************************	
BH-31 (15) (890-1502-31)	10/27/21	Mountain		Solid	_	×	×	×	×	×									- i	5			
BH-32 (15) (890-1502-32)	10/27/21	Mountain		Solid		×	×	×	×	×									46	\$2500 hours			
BH-33 (15) (890-1502-33)	10/27/21	Mountain		Solid		×	×	×	×	×										and the second			
BH-34 (15) (890-1502-34)	10/27/21	Mountain		Solid		×	×	×	×	×								$\neg \dagger$	أجس	***************************************			
BH-35 (15) (890-1502-35)	10/27/21	Mountain		Solid		×	×	×	×	×									- A	enerale.			
BH-36 (15) (890-1502-36)	10/27/21	Mountain		Solid		×	×	×	×	×										***************************************			
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.	aces the ownership or signed Chain of Cus	if method anal nples must be tody attesting t	lyte & accredita shipped back to said complica	tion compliance o the Eurofins) ince to Eurofins	e upon Xenco s Xenci	out su LLC la	bcont	act lat	borato other i	ories.	This s	ample vill be	shipr	nent is	forwa	arded	unde	er cha	iin-of- ditatio	custo n sta	ody If the laboratory	does not currently it to Eurofins Xenco L	Ö
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Deliverable Requested I II III IV Other (specify)	Primary Deliverable Rank	ble Rank 2			SS	Special Instructions/QC Re	Instr	uctio	ns/Q	Ĉ R	equirements	mer	ıts ,		ľ	ľ							
Empty Kit Relinquished by		Date			Time		\rfloor	-				1	١	Meth	Method of Shipment:	Shipn	nent		١	1			L
Relinquished by	Date/Time [.]		O	Company) Re	Received by			D	1	\leq I	0	\searrow	I	Date	Date/Time	٩	1		0	Company	
Kelinquished by	Date/Time:		C	Company		Recei	ed by	ې ا			+	Ì		ŀ		Date	Date/Time	•			0	Company	
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seurofins |

Environment Testing America

Carlsbad NM 88220

1089 N Canal St.

Eurofins Xenco, Carlsbad

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Chain of Custody Record

-	Chain of Custody Record
Lab PM Kramer Llessica	Record
Carrier Tracking No(s)	
COC No	Environment Testing America

Project Name: Kaiser SWD State Zip TX 79701 BH-45 (15) (890-1502-45) BH-44 (15) (890-1502-44) BH-43 (15) (890-1502-43) BH-41 (15) (890-1502-41) BH-40 (15) (890-1502-40) BH-39 (15) (890-1502-39) BH-38 (15) (890-1502-38) BH-37 (15) (890-1502-37) Sample Identification - Client ID (Lab ID) BH-42 (15) (890-1502-42) Phone. 575-988-3199 Fax. 575-988-3199 lote 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 naintlain 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. Client Information (Sub Contract Lab elinquished by: ossible Hazard Identification 132-704-5440(Tel) Midland 1211 W Florida Ave mpty Kit Relinquished by Deliverable Requested 1 II III IV linquished by urofins Xenco linquished by Custody Seals Intact: ipping/Receiving confirmed Ύes ∆ No Custody Seal No Other (specify) 88000039 Date/Time Primary Deliverable Rank #OW PO#: Phone Sampler TAT Requested (days): Sample Date 10/27/21 10/27/21 10/27/21 10/27/21 10/27/21 10/27/21 10/27/21 10/27/21 10/27/21 Date Mountain Mountain Mountain Mountain Mountain Mountain Mountain Mountain Mountain Sample Time (C=comp, G=grab) Sample Type Preservation Code: Company Company Company Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid jessica kramer@eurofinset com lime Field Filtered Sample (Yes or No) Accreditations Required (See note):
NELAP - Louisiana NELAP - Texas Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Cooler Temperature(s) °C and Other Remarks × × × × × × × 8015MOD_NM/8015NM_S_Prep (MOD) Full TPH × × × × × × \times \times \times × 8021B/5035FP_Calc BTEX × × × × × × × × × 300_ORGFM_28D/DI_LEACH Chloride × × × × × × Total BTEX GCV \times × × Analysis Requested × × × × 8016MOD_Caic × × × × × State of Origin New Mexico Nethod of Shipment Date/Time Date/Time Date/Time → Total Number of containers **4** -, (A) - No. 6 ``کسی وكالمتب -A HCL
B NaOH
C Zn Acetate
D Nitric Acid
F MAHSO4
F MeAlor
G Amchlor
H Ascorbic Acid
I loe
J DI Water
K EDTA
L EDA Preservation Co 890-1502-1 Page 5 of 14 age Special Instructions/Note N ≶ < ⊏ - σποποκς Company Company M Hexane
V None
O AsNaO2
Na2O4S
Na2O4S
Na2SO3
R Na2S2O3
R Na2S2O3
R Na2S2O4 Company MCAA PH 4-5 other (specify) Months Acetone

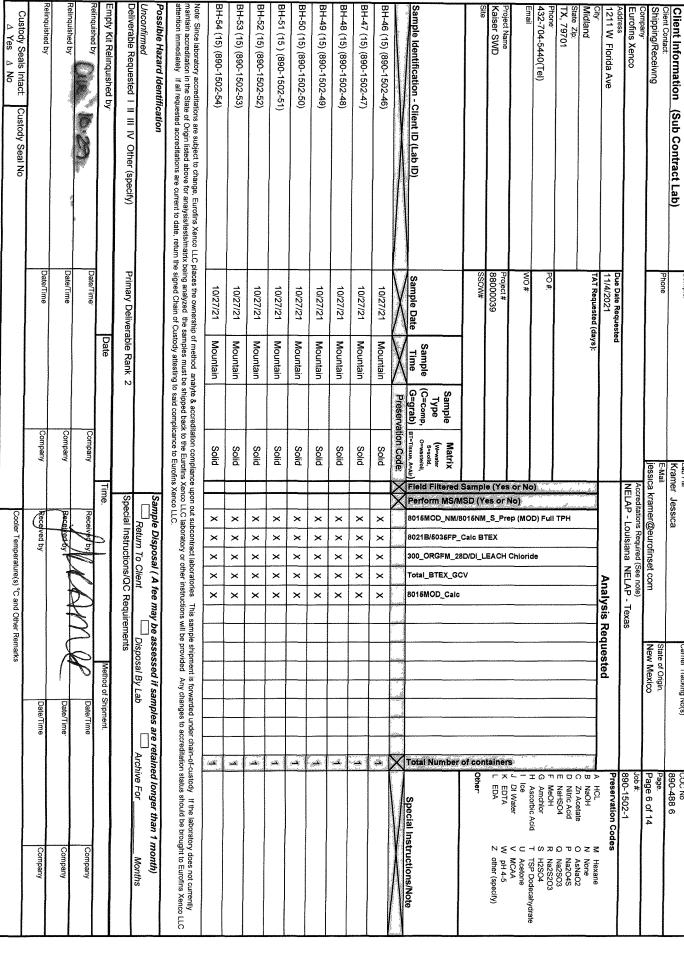
1089 N Canal St.

Eurofins Xenco, Carlsbad

13 14

Chain of Custody Record

Carlsbad NM 88220 Phone: 575-988-3199 Fax 575-988-3199	Chain of Custody Record	dy Record		Environment Testing America
Client Information (Sub Contract Lab)	Sampler	Lab PM Kramer Jessica	Carrier Tracking No(s)	COC No 890-488 6
Client Contact:	Phone	E-Mail	State of Origin	Page
Shipping/Receiving		jessica kramer@eurofinset com	New Mexico	Page 6 of 14
Company:		Accreditations Required (See note)		Job#:
Euroins Xenco		NELAP - Louisiana NELAP - Texas		890-1502-1
Address 1211 W Florida Ave	Due Date Requested 11/4/2021	Analysis Reguested	mested	Preservation Codes
City Midland	TAT Requested (days):			22
State Zip:		H		D Nitric Acid P Na2O4S



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Eurofins Xenco, Carlsbad

Chain of Custody Record

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Environment Testing

State Zip TX 79701 BH-55 (15) (890-1502-55) Project Name Kaiser SWD BH-63 (15) (890-1502-63) BH-62 (15) (890-1502-62) BH-61 (15) (890-1502-61) BH-60 (15) (890-1502-60) BH-59 (15) (890-1502-59) BH-58 (15) (890-1502-58) BH-57 (15) (890-1502-57) BH-56 (15) (890-1502-56) Sample Identification - Client ID (Lab ID Midland Carlsbad NM 88220 Phone. 575-988-3199 Fax 575-988-3199 1211 W Florida Ave 432-704-5440(Tel) elinquished by elinquished by ossible Hazard Identification ote 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 islating analytic accreditation in the State of Origin listed above for analysis/fests/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 tention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC. Custody Seals Intact. mpty Kit Relinquished by eliverable Requested I II III IV Other (specify) linquished by lient Information (Sub Contract Lab) rofins Xenco nipping/Receiving Custody Seal No Project #: 88000039 Phone WO# PO# Date/Time Primary Deliverable Rank TAT Requested (days) Due Date Requested 11/4/2021 Sample Date 10/27/21 10/27/21 10/27/21 10/27/21 10/27/21 10/27/21 10/27/21 10/27/21 10/27/21 Date Mountain Mountain Mountair Mountain Mountain Mountain Mountain Mountain Mountain Sample (C=comp, Sample Type Preservation Code: Company Company Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid Lab PM Kramer Jessica E-Mail: essica.kramer@eurofinset.com Time Accreditations Required (See note)
NELAP - Louisiana NELAP - Texas Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Refurn To Client Disposal By Lah Archive For Mon Refeived by × × × × × × × × × 8015MOD_NM/8015NM_S_Prep (MOD) Full TPH Cooler Temperature(s) °C and Other Remarks Return To Client × × × × × × × × 8021B/5035FP Calc BTEX × × × × × × 300_ORGFM_28D/DI_LEACH Chloride × × × × × × × × Total_BTEX_GCV × Analysis Requested × 8015MOD_Calc × × × × × × × × Disposal By Lab State of Origin New Mexico Carrier Tracking No(s) Date/Time Archive For 4 æ. -977. 9**20**4 Total Number of containers , and the same of COC No 890-488 7 Page: Page 7 of 14 Preservation 890-1502-1 lce
J DI Water
C EDTA
L EDA NaOH

Zn Acetate

Nitric Acid

NaHSO4

MeOH

Amchlor Ascorbic Acid If the laboratory does not currently should be brought to Eurofins Xenco N ≶ < ⊂ Company M Hexane
V None
D AsNaO2
D ASNaO2
D Na2SO3
D Na2SO3
R Na2SEO3
R Na2SEO4
T TSP Dodecahydrate
J Acetone
MCAA Company other (specify)

Chain of Custody Record

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Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199		1	2 0 0		9	2														MANAGEMENT	Ame	America
ormation (Sub Contract Lab)	Sampler [.]			Lab PM Kramer	, I	Jessica				l			Carrier Tracking No(s)	Track	ng No	(S)	l	l	8 8	COC No 890-488 8		
Shipping/Receiving	Phone			E-Mail jessic	E-Mail Jessica kramer@eurofinset com	mer@	geurc	finse	tcom			- CO	State of Origin New Mexico	f Origi	Ö -				Page: Page	Page: Page 8 of 14		
Eurofins Xenco					Accreditations Required (See note) NELAP - Louisiana, NELAP	Accreditations Required (See note NELAP - Louisiana, NELAP	Requ	ired (S	See no	Р. Р.	- Texas								-068 # qor	Job# 890-1502-1		
Address 1211 W Flonda Ave	Due Date Requested 11/4/2021								≱ l	<u>ā</u>	<u> </u>	ĝ	Analysis Requested	<u> </u>			ı		핗	Preservation Codes	ö	
City Midland	TAT Requested (days):	/s):								,			_		\dashv	\dashv	\dashv	-				Hexane None
State, Zip: TX 79701						TPH													шοс	Nitric Acid	O T C	Na2O4S Na2SO3
Phone 432-704-5440(TeI)	PO#				Y 26) Full		e												:		a2S2O3 2SO4
Email	WO#:				005-2005 A	ark billion		Chloric										<u> </u>	:	ć		Acetone MCAA
Project Name Kaiser SVVD	Project # 88000039				733	mussam.	EX	EACH										ainer	「 ス	EDTA EDA	Z V ot bl	pH 4-5 other (specify)
Site	SSOW#:				anaged Costs	restation de la company	Calc B1	D/DI_L	·V							·		of con	Other:	her		
		Garage Control	Sample Type	Matrix (w=water S=solid,	filtered orm MS/N	MOD_NM/8	B/6035FP_	ORGFM_28	_BTEX_GC	MOD_Calc	······································						,	l Number	pa-560, 553, 553, 553, 553, 553, 553, 553, 55			
Sample Identification - Client ID (Lab ID)	Sample Date	Time	: L	BT=Tissue, A=Air)	VA Bessel	20 34.52	802	300	Tota	801	1	1	1	1_	-	-	╀	Tot	T	Special Instructions/Note:	truci	tions/Note:
BH-64 (15) (890-1502-64)	10/27/21	Mountain	Solid	Solid		<	<	<	<	۲ :	Jac.		-	-	-	- 100	+	5	T		2000	
BH-65 (15) (890-1502-65)	10/27/21	Mountain		Solid	\dashv	×	×	×	×	× :	_		_	_	-	+	+					
BH-66 (15) (890-1502-66)	10/27/21	Mountain		Solid		×	×	×	×	×			_	_					<u> </u>			
BH-67 (15) (890-1502-67)	10/27/21	Mountain		Solid		×	×	×	×	×	\dashv											
BH-68 (15) (890-1502-68)	10/28/21	Mountain		Solid		×	×	×	×	×				_				- A				
BH-69 (15) (890-1502-69)	10/28/21	Mountain		Solid		×	×	×	×	×								أ يعني				
BH-70 (15) (890-1502-70)	10/28/21	Mountain		Solid		×	×	×	×	×												
BH-71 (15) (890-1502-71)	10/28/21	Mountain		Solid		×	×	×	×	×								أ يقتدي				
BH-72 (15) (890-1502-72)	10/28/21	Mountain		Solid		×	×	×	×	×								, eča, 1				
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.	laces the ownership or analyzed the sale signed Chain of Cus	of method ana mples must be tody attesting t	lyte & accreditorshipped back to said complications	ation compliand to the Eurofins ance to Eurofir	e upon Xenco Is Xenc	out su	bcontr borato	act lab ny or o	orator ther in	ies. T structi	his sa ons w	mple s	rovide	entis f	orward y char	ded ur iges ti	der ch	ain-of editatio	-custc)n staf	ody If the laborato itus should be brou	ight to	s not currently Eurofins Xenco LLC
Possible Hazard Identification Unconfirmed					ွ	Sample Disposal (A fo	le Disposal (A f Return To Client	osa.) (A	ee	may t	⊔e as	be assessed if samples	8 8 E	sam	ples	⊓ae	etai	ned I	are retained longer than 1 i	month)	nth) Months
Deliverable Requested I II III IV Other (specify)	Primary Deliverable Rank 2	ble Rank 2			St	Special Instructions/QC	Instr	uctio	JS/Q		Requirements	ment	s i				1				ľ	
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J	Date/Time			Company		Rec	Received by	γ								Date/Time	ne				Company	pany
Custody Seals Intact. Custody Seal No						C00	Cooler Temperature(s) °	nperat	ure(s)	റ	and Other Remarks	r Ren	ıarks									
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Eurofins Xenco, Carlsbad

Chain of Custody Record

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1009 W Callai St Carlsbad NM 88220 Dhona 575 089 3100 Eav 575 089 3100	0	hain c	Chain of Custody Record	ody Re	206	ă													9	<u> </u>	Environment Testing America
Client Information (Sub Contract Lab)	Sampler			Lab PM Kramer	٦	Jessica							arrier	Carrier Tracking No(s)	ng No	<u>®</u>			<u> </u>	COC No. 890-488 9	
Client Contact: Shipping/Receiving	Phone			E-Mail Jessica kramer@eurofinset.com	a kra	mer@	geurc	finse	t.com	_		> ω	tate of	State of Origin New Mexico	ŏ ¬				g g	Page: Page 9 of 14	
Company: Eurofins Xenco				- 5	Accreditations Required (See note) NELAP - Louisiana NELAP	tations P - L	Requ	ired (S	E no	9	Texas	L							8 P	Job #: 890-1502-1	
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City [.] Midland	TAT Requested (days):	ys):			to Comment Co	<u> </u>								;	\dashv		-		> 00 >	HCL NaOH	Hexane None
State Zip: TX, 79701				·		TPH													m \Box (Na2O4S Na2SO3
Phone 432-704-5440(TeI)	PO#			No. 200	Winds) Full	***************************************	e											: O П	MeOH R	Na2S2O3 H2SO4
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Project Name Kaiser SWD	Project # 88000039			is a substitute of the substit		resilentation (ΕX	EACH										dinar	ロス	EDTA V	pH 4-5 other (specify)
Site	SSOW#:					1480400000	Calc B1	iD/DI_L	V									of con	almost hold	Other:	
Sample Identification - Client ID (I ab ID)	Sample Date	Sample	Sample Type (C=comp,	Matrix (w=water S=solid, O=waste/oil,	ield Filtered erform MS/N	015MOD_NM/8	021B/6036FP_	00_ORGFM_28	otal_BTEX_GC	015MOD_Calc								otal Number			
		X	O L		2000000	30,000	en addi		eers .			4	Mund	644			4		7		
BH-73 (15) (890-1502-73)	10/28/21	Mountain		Solid		×	×	×	×	×								<u></u>	-1	The second secon	
BH-74 (15) (890-1502-74)	10/28/21	Mountain		Solid		×	×	×	×	×					_			اليعم			
BH-75 (15) (890-1502-75)	10/28/21	Mountain		Solid		×	×	×	×	×						\dashv		, (2			
BH-76 (15) (890-1502-76)	10/28/21	Mountain		Solid		×	X	×	×	×						\dashv			Sec. A		
BH-77 (15) (890-1502-77)	10/28/21	Mountain		Solid		×	×	×	×	×				-				[هر			
BH-78 (15) (890-1502-78)	10/28/21	Mountain		Solid		×	×	×	×	×								ا شد			
BH-79 (15) (890-1502-79)	10/28/21	Mountain		Solid		×	×	×	×	×				-				4	3-8- °		
BH-80 (15) (890-1502-80)	10/28/21	Mountain		Solid		×	×	×	×	×								, A 1	(***************************************	
BH-81 (15) (890-1502-81)	10/28/21	Mountain		Solid		×	×	×	×	×	\sqcup			-					94 3 9		
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 and the samples must be shipped back to the Eurofins Xenco LLC.	aces the ownership or sing analyzed the sai signed Chain of Cus	of method anal mples must be tody attesting t	yte & accreditat shipped back to o said complica	ion compliance the Eurofins X nce to Eurofins	upon (enco t	out sul LC lail	bcontr	act lab y or of	oratori her ins	es TI structio	nis sar ons wil	nple s I be p	hipme ovide	ntis f	orwar y cha	ded ur	nder c	nain-o editati	f-cust on sta	tody If the laboratory catus should be brought	loes not currently to Eurofins Xenco LLC
Possible Hazard Identification Unconfirmed					Sa	Sample Disposal (A fee	le Disposal (A f Return To Client	Josal	lient A	ee m	may be assessed if samples	e as	sess	assessed if san Disposal Bv Lab	san	ples	⊓are	retai	ned l	are retained longer than 1 mo	month)
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Eurofins Xenco, Carlsbad

Chain of Custody Record

Carlsbad NM 88220 Phone 575,088,3100 Eav 575,088,3100		Citalii oi custody Record	01000	7000	6	\$												_	America
6	Sampler			Lab PM Kramer	~	Jessica					୍ଷ	Carrier Tracking No(s)	acking	No(s)			COC No.	COC No.	
	Phone:			E-Mail	<u> </u>	ner@e	urofin	set or	Ĭ		z St	State of Origin	rigin				Page	Page Page 10 of 14	
Company Eurofins Xenco					Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas	reditations F	Required ulsiana	d (See note): a, NELAP	AP -	Texas	L	1	l				# dot	Job #: 890-1502-1	
Address 1211 W Florida Ave	Due Date Requested 11/4/2021	ă						$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	nalv	sis F	Analysis Requested	ste	_				Pres	Preservation Codes	š
City: Midland	TAT Requested (days):	ıys):			plane drawa		_	\dashv				-	1		4			HCL NaOH	
State Zip: TX 79701					<u>Santinoria</u>	TPH											m o c		P Na2O4S Q Na2SO3
Phone: 432-704-5440(Tel)	PO#) Full											о п > z		R Na2S2O3 S H2SO4
Email	WO#				1.30	(MOE	hiorid			·							I	ACID	T TSP Dodecahydrate U Acetone V MCAA
Project Name Kajser SWD	Project #				112975888	S_Pre										iners		EDTA EDA	W pH 4-5 Z other (specify)
Site:	SSOW#:				SAMPLES Y	5NM_										cont	Other:	7	
					C00000-300000	/8016			lc							rof			
		Sample	Sample Type (C=comp	Matrix (w=water s=soild	d Filtered form MS/	MOD_NM	ORGFM_	I_BTEX_G	MOD_Cal							il Numbe			
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab)	BT=Tissue, A=Air)	896T/S	80	-	⊢	801							To		Special Ins	pecial Instructions/Note.
	N	\setminus	Preserva	Preservation Code:	X	eji (and (\mathbf{x}			
BH-82 (15) (890-1502-82)	10/28/21	Mountain		Solid		×	×	^ ×	×							<u>~</u> 1	a Mila (A)		
BH-83 (15) (890-1502-83)	10/28/21	Mountain		Solid		×	×	×	×		\dashv	\dashv	_		_		فالتضيية		
BH-84 (15) (890-1502-84)	10/28/21	Mountain		Solid		×	×	<u>×</u>	×						_	<u> </u>			
BH-85 (15) (890-1502-85)	10/28/21	Mountain		Solid		×	×	×	×		_	-	\neg		4	اعت	on state of last		
BH-86 (15) (890-1502-86)	10/28/21	Mountain		Solid		×	×	$\frac{}{\times}$	×			\dashv							
BH-87 (15) (890-1502-87)	10/28/21	Mountain		Solid		×	×	×	×		-	\dashv			_	عتم	energie		100000000000000000000000000000000000000
BH-88 (15) (890-1502-88)	10/28/21	Mountain		Solid		×	×	×	×				\neg		_	ا رهبر	enteres de la		
ВН-89 (15) (890-1502-89)	10/28/21	Mountain		Solid		×	×	×	×			-	\neg		_	(alb)		vaatuatuutuu	
BH90 (RS) (6) (890-1502-90)	10/28/21	Mountain		Solid		×	×	×	×							.4	irrauna aitaili		
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.	LC places the ownership trix being analyzed the sa m the signed Chain of Cus	of method and amples must but stody attesting	alyte & accredi e shipped back to said compli	itation compliand to the Eurofins cance to Eurofir	Xenco L	out subc	contract	laborat or other	ories instruc	This sar	mple st	ipment ovided	is forw Any c	arded i	inder c	nain-of editatio	custoc n statu	y If the laborato us should be brou.	νη does not currently ght to Eurofins Xenco L
Possible Hazard Identification					Sau	nple l	Sample Disposal (A	sal (fee	nay b	e ass	esse	d if se	mple	s are	retaiı	ed Ic	fee may be assessed if samples are retained longer than 1 month)	month)
Deliverable Requested I II III IV Other (specify)	Primary Deliverable Rank		2		Sp	ecial li	Special Instructions/Q	tions/		quire	C Requirements	0000	7	Č		3	di Cinyo i Ci	Ş	CHILIDIA
Empty Kit Relinquished by		Date			Time		3				l	Me	Method of Shipment.	Shipm	ň		None and a second		the property of the second
Relinquished by	Date/Time			Company		Recei	0 b		3	7	2	1	٦	Date/Time	ime.				Company
Relinquished by:	Date/Time			Company		Rece	ed by:	4			(I	Date/Time	me	I	1		Company
Relinquished by	Date/Time			Company		Received by:	ed by:							Date/Time	ime:				Company
Custody Seals Intact. Custody Seal No						Cooler	Cooler Temperature(s	rature(റ്	nd Othe	and Other Remarks	충		ſ	l				

Eurofins Xenco, Carlsbad

Chain of Custody Record
&\$ eurofins Environment Testing America

1089 N Canal St	0	hain c	of Cust	Chain of Custody Record	9 C C	ă												9 5 6 8 5 6	्र eurofins	Environment Testing
Phone 575-988-3199 Fax 575-988-3199				•															-	America
Client Information (Sub Contract Lab)	Sampler			Lab PM Kramer	7	Jessica						Сап	Carrier Tracking No(s)	cking	vo(s)			ထ ဂ	COC No. 890-488 11	
	Phone:			E-Mail jessic	E-Mail jessica kramer@eurofinset com	mer@	euro	inset	S			Ne State	State of Origin New Mexico	g g				TO 70	Page: Page 11 of 14	
Company Eurofins Xenco		The state of the s			Accreditations Required (See note) NELAP - Louisiana NELAP	tations P - Lo	ccreditations Required	na (Se	(See note)	- Texas	âs	İ						<u>ه چ</u>	Job #: 890-1502-1	
Address 1211 W Florida Ave	Due Date Requested 11/4/2021								Analy	lysis	Re	Requested	sted					v	eservation Code	
City: Midland	TAT Requested (days):	/s):				emeditus.		_	\dashv		ᅱ	一					·	1	NaOH	
State Zip: TX 79701					<u> permanentili</u>	TPH						*************						m o c		Na2O4S Na2SO3
Phone: 432-704-5440(Tel)	PO#				<u>Vergeline</u>) Full		e	,									oferanties G TI	MeOH Amchlor	
Email	WO#				2000 TO THE TWO IS	p (MOI		Chlorid										8) 	lce DI Water	Acetone MCAA
Project Name Kaiser SWD	Project #: 88000039				7-00-0 1-0-70	_S_Pre	EX	EACH	··········			,					- Inde	ainer ~ ~		V pH 4-5 other (specify)
Site	SSOW#				MARKA MET YES	015NM	Calc B1		v			********					7857-7-7-7	Malanan	Other:	
Sample Identification - Client ID (Lab ID)	Sample Date	Sample	Sample Type (C=comp,	Matrix (w=water S=solid, O=waste/oil,	ield Filtered : Perform MS/M	015MOD_NM/8	021B/6036FP_0	00_ORGFM_28	otal_BTEX_GC	015MOD_Calc			·				8-04-6-20 - 285-6-1	otal Number		
	V	\mathbb{X}	30.7	ingrouss.	14.10				-		-		ng datasi					4		
BH-91 (RS) (6) (890-1502-91)	10/28/21	Mountain		Solid		×	×	×	×	×								-2.		
SW-1 (0-6) (890-1502-92)	10/25/21	Mountain		Solid	-	×	×	×	×	×		_						4		
SW-2 (0-6) (890-1502-93)	10/25/21	Mountain		Solid		×	×	×	×	×			7					<u> </u>		
SW-3 (0-6) (890-1502-94)	10/25/21	Mountain		Solid		×	×	×	×	×	_							بخوس		
SW-4 (0-6) (890-1502-95)	10/25/21	Mountain		Solid		×	×	×	×	×								- 1		
SW-5 (0-6) (890-1502-96)	10/25/21	Mountain		Solid		×	×	×	×	×			1					, e g		
SW-6 (0-6) (890-1502-97)	10/25/21	Mountain		Solid		×	×	×	×	×								-		
SW-7 (0-6) (890-1502-98)	10/26/21	Mountain		Solid		×	×	×	×	×								48 . 1		
SW-8 (0-6) (890-1502-99)	10/26/21	Mountain		Solid		×	×	×	×	×								-		
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/testis/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 and a status and	aces the ownership o ≱ing analyzed the sa signed Chain of Cus	of method anal mples must be tody attesting t	lyte & accredita shipped back to said complica	ation complianc to the Eurofins ance to Eurofin	e upon Xenco I s Xenco	out sul LLC lai	bcontra	ıct labo y or oth	ratorie ier inst	s This	s will t	e ship	ided	s forw Any ct	arded langes	under to ac	chain- credita	of-cu: tion s	stody If the laboratory status should be brough	does not currently
Possible Hazard Identification Unconfirmed					Sa	□mp/e	l <mark>e Disposal (A f</mark> Return To Client	osal To C	Sample Disposal (A fee	e may	be	be assessed if samples Disposal By Lab	assessed if san Disposal Bv Lab	if sa	mple	_ s ar	□rer A	ine	are retained longer than 1 m	month) Months
Deliverable Requested Till IV Other (specify)	Primary Deliverable Rank	ble Rank 2			Sp	ecial	Instru	ction	Special Instructions/QC Requirements	Requ	Irem	ents								
Empty Kit Relinguished by		Date			Time [.]			2					Metr	Method of Shipment:	Shipm	ent:				
Relinquished by	Date∕Time			Company		Rece	Received b		M	D	3	\geq	9	D	Date/Time	Time			[0	Company
Kelinquisned by	Date/Time ⁻			Company		Racetver	Weds	,	•						Date/Time	Time			0	Company
Relinquished by	Date/Time			Company		Rece	Received by:	٠,							Date/	Date/Time:				Company
Custody Seals Intact: Custody Seal No						Coo	er Ten	peratu	Cooler Temperature(s) °C		and Other Remarks.	Remart	ŝ.		Ī	l				

Ver 06/08/2021

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

Client Information (Sub Contract Lab)	Sampler			Lab PM Krame	Lab PM Kramer Jessica	sica a					Camie	Carrier Tracking No(s)	ing No	(s)			COC No 890-488 12	
	Phone:			E-Mail jessic	E-Mail jessica kramer@eurofinset com)er@ei	urofins	et cor	3		State	State of Origin New Mexico	8 =				Page 12 of 14	
Company Eurofins Xenco					Accreditations Required (See note) NELAP - Louisiana NELAP	ations R	equired Isiana	(See no	D ©	Texas							Job# 890-1502-1	
Address 1211 W Florida Ave	Due Date Requested 11/4/2021	٥						<u>≽</u>	<i>-</i> 1	/sis Re	Requested	ē		1]	Preservation Codes	des
City: Midland	TAT Requested (days)	ys)			tenderskilde Determinent	_	\dashv			-		[\dashv	\dashv	\dashv			
State, Zip TX 79701					Calling of Section sections	TPH	***************************************			***************************************						a succession	D Nitric Acid E NaHSO4	P Na2O4S Q Na2SO3
Phone 432-704-5440(Tel)	PO#:				Y, 44	O) Full	ie											
Email	WO #:				Sitolog-re-	p (MOI	Chloric								*****	eductors,	I lice J DI Water	U Acetone V MCAA
Project Name: Kaiser SWD	Project #- 88000039				5000 THE 1000									***************************************		7. A. 100	K EDTA L EDA	W pH 4-5 Z other (specify)
Site	SSOW#				500000115000000F			1								sermo link	Other:	
			Sample Type	Matrix (W=water S=solid.	Filtered : orm MS/M	MOD_NM/8	8/6035FP_0 	BTEX_GC	IOD_Calc							Number		
	Variety Care	X	Preservation Code:	tion Code:	45500 000	-1-	-	Т	8					-	i periodici di seriesi	ΧŢ	Special in	Special instructions/Note
SW-9 (0-6) (890-1502-100)	10/26/21	Mountain		Solid		×	× ×	×	×							44		
SW-10 (0-6) (890-1502-101)	10/26/21	Mountain		Solid		×	×	×	×			_			_	-4		
SW-11 (0-6) (890-1502-102)	10/26/21	Mountain		Solid		×	×	×	×					-		.		
SW-12 (10) (890-1502-103)	10/26/21	Mountain		Solid		×	×	×	×							,48c)		
SW-13 (15) (890-1502-104)	10/26/21	Mountain		Solid		×	×	×	×	_			-	\dashv		إخد		
SW-14 (15) (890-1502-105)	10/26/21	Mountain		Solid		×	×	×	×			.		_		caas Control		1111
SW-15 (15) (890-1502-106)	10/26/21	Mountain		Solid		×	×	×	×			_			\dashv	ه	***************************************	
SW-16 (15) (890-1502-107)	10/26/21	Mountain		Solid		×	×	×	×				_			-		
SW-17 (15) (890-1502-108)	10/26/21	Mountain		Solid		×	×	×	×				_		_			
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.	aces the ownership or ing analyzed the sai signed Chain of Cus	of method analy mples must be s tody attesting to	/te & accredita shipped back to said complica	tion complianc o the Eurofins ance to Eurofin	e upon o Xenco Ll s Xenco	ut subco C labor	Intract la	borator other in	ies TI istructio	nis samp ons will b	le shipn e provic	nent is f	orward	ed und	er chai accredi	n-of-cu tation	status should be bro	atory does not currently ought to Eurofins Xenco LLC
Possible Hazard Identification Unconfirmed					San	Sample Disposal (A fee	le Disposal (A f Return To Client	Clien		may be assessed if samples	assessed if san Disposal By Lab	sed if	sam,		□re re	taine Archi	are retained longer than 1 Archive For	1 month) Months
Deliverable Requested 1 II III IV Other (specify)	Primary Deliverable Rank	ble Rank 2			Spe	Special Instructions/QC	struction	ons/Q	C Rec	Requirements	ents			١		١		
Empty Kit Relinquished by		Date			Time	ı	\rightleftharpoons					Method of Shipment.	of Sh	pment.				
? ? ? ? ! Y ! ! ! ! ! ! ! ! ! ! ! ! ! !	Date/Time.		0	Company		Receive	Legy Park	P	8	5		M		Date/Time	Ġ.	1		Company
	Date/Time		0	Company		Sec.	ed by						D	Date/Time	е	İ		Company
Relinquished by	Date/Time		0	Company		Received by	d by						- D	Date/Time	ġ.			Company
Custody Seals Intact: Custody Seal No						Cooler Temperature(s) °C	empera	iture(s)	ω	nd Other Remarks	emarks	Ì	ŀ		İ			
					L				l				l	ı		١		Ver: 06/08/2021

1089 N Canal St Carlsbad NM 88220 Phone 575-988-3199 Fax. 575-988-3199 1

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Eurofins Xenco, Carlsbad

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Chain of Custody Record

Official information (Dick Operational Laborate	Sampler			Lab PM	-	•						Came	r Track	Carrier Tracking No(s).	(s)			COC No:	No:		
Client Contact:	Phone			F-Mail:	Jeg	Sica						Ctato	State of Origin	5				890	890-488 13		
Shipping/Receiving				jessica.kramer@eurofinset.com	a.kran	ner@	euror	inset	S			New	New Mexico	8 :		:		Page	Page 13 of 14		
Eurofins Xenco				7 8	ELAF	ations	Requi	na N	Accreditations Required (See note) NELAP - Louisiana NELAP	- Texas								-068 # qor	Job#: 890-1502-1		
Address 1211 W Florida Ave	Due Date Requested 11/4/2021	ă						-	Analy	₹ I	Rec	Requested	<u> </u>		1		1	Pres	Preservation Codes	es	
City Midland	TAT Requested (days)	ıys)		- Th. Th.					-	一	\dashv				\dashv	\dashv	and the second		HCL NaOH 7n Acetate	o z z	Hexane None
State, Zip TX 79701					taring Jenesiasias eterstasias	TPH											Solven della de	m o c	Nitric Acid	υσα	Na2O4S Na2SO3
Phone: 432-704-5440(TeI)	PO#:				Ž.	D) Full		ie ————									- mg		MeOH Amchlor	н o д	Na2S2O3 H2SO4
Email	WO#				34. 103097	OM)		hloric									þ		ce DI Water	< - ~	Acetone MCAA
Project Name Kaiser SWD	Project #			502 PR	- y-y-ger.200	S_Prep	х	ACH C									iners		EDTA EDA		other (specify)
Site	SSOW#				OCX T	M_5	BTE	LE									nta	2	!		
Sid	SSCW#:					8016Ni	_Calc E										of co	Other	Γ.		
			Sample 1 Type (Matrix (w-water	rm MS/I	OD_NM/	/6036FP	RGFM_2	BTEX_G OD_Cald								Numbe				
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab) BT=1	ا	V 1000000	801	802	4-	4-	1	1			-	-	+	Tot		Special Ir	nstru	Special Instructions/Note
SW-18 (15) (890-1502-109)	10/26/21	Mountain	Solid	Solid	古	۲ .	< }	۲.	- Éss	+	-		- 40	-	-	-	5	1			
SW-19 (15) (890-1502-110)	10/26/21	Mountain		Solid		× >	× >	-	× >	+			_	_	+	+	ا ک				
SW-20 (15) (890-1502-111)	10/26/21	Mountain		Solid		×	×	×ļ	-+	×	\dashv			_	+	\dashv	**				***************************************
SW-21 (15) (890-1502-112)	10/26/21	Mountain		Solid		×	×	×	×		7			_		\dashv	4				
SW-22 (15) (890-1502-113)	10/26/21	Mountain		Solid		×	×	×	×	×	7					\dashv	-				
SW-23 (15) (890-1502-114)	10/26/21	Mountain		Solid		×	×	<u>×</u>	×	×	7			-	\dashv	\dashv	-				
SW-24 (15) (890-1502-115)	10/26/21	Mountain		Solid		×	×	×	×	×							- A		***************************************		
SW-25 (15) (890-1502-116)	10/26/21	Mountain		Solid		×	×	×	×	×					-	_	<i>-</i>				
SW-26 (15) (890-1502-117)	10/26/21	Mountain		Solid		×	×	×	×	×							- 4				
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 Eurofin's Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofin's Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofin's Xenco LLC.	laces the ownership eing analyzed the sa signed Chain of Cus	of method anal imples must be stody attesting to	yte & accreditation shipped back to to said complicand	n compliance he Eurofihs X se to Eurofins	upon a enca L Xenco	out sub LC lab	contra	ct labo / or oth	ratorie: er inst	s. This uctions	sample will be	shipn	ed A	forward 1y char	ded un	der cha	ain-of-o	custod 1 statu	y If the labors s should be br	atory d₁ ought t	toes not currently to Eurofins Xenco LLC
Possible Hazard Identification Unconfirmed					Sar	□p/e	Disp	le Disposal (A f	Sample Disposal (A fee		may be assessed if samples	sses	assessed if san	f sam	ples		etain	tained long	are retained longer than 1 month)	1 mo	nth)
Deliverable Requested I II III IV Other (specify)	Primary Deliverable Rank	able Rank 2			Sp	ecial	nstru	ctions	Special Instructions/QC R	Requi	equirements	ಕ			[ĺ	1				
Empty Kit Reinquished by		Date		-	Time:			/					Metho	Method of Shipment	ipmen					THE CHECKSHOOM	
Keinquished by	Date∕Time		Con	Company		Received b	ved b		B	B			2	0	Date/Time	ne				<u></u> 8	Company
Kelinquisined by	Date/Time		Con	Company		Received	ved by	¥						-{	Date/ Time	ne				ဂ္ဂ	Company
	Date/Time		Соп	Company		Recei	Received by	1							Date/Time	Je.				ဂ္ဂ	Company
Custody Seals Intact. Custody Seal No						Coole	r Tem	peratu	Cooler Temperature(s) °C a	and O	nd Other Remarks	marks				ĺ	l			ŀ	
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Environment Testing America

Ver: 06/08/2021

Eurofins Xenco, Carlsbad 1089 N Canal St.

Chain of Custody Record

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Phone 575-988-3199 Fax 575-988-3199								ĺ			ĺ	ŀ	ĺ	į				
Client Information (Sub Contract Lab)	Sampler			Lab PM Kramer Jessica	Jessica	_					Carrier Tracking No(s)	[rackin	g No(s				COC No: 890-488 14	
	Phone.			E-Mail	ramerio	Pelirof	inset	3		7 (0	State of Origin.	Origin				_	Page:	
Company Eurofins Xenco				Accr	Accreditations Required (See r	Requir	ed (Ser	e note)	Texas	L							Job #: 890-1502-1	
Address 1211 W Florida Ave	Due Date Requested 11/4/2021	ā					ı	Anal	Sis	Requested	196	٤	ı			ᆜ	Preservation Codes	les
City Midland	TAT Requested (days):	ys):		an a				-	\dashv				\dashv	\neg				M Hexane N None
State, Zip. TX 79701	J			D. sand	ТРН											and the second	D Nitric Acid E NaHSO4	P Na2O4S Q Na2SO3
Phone: 432-704-5440(Tel)	PO #))	o) Full		e									da Alberton, Al	F MeOH G Amchlor	
Email	WO#:			18860 C - 7	2560.cscs		hlorid						 -			in Contibut	H ASCORDIC ACID	U Acetone V MCAA
Project Name. Kaiser SWD	Project #. 88000039				44.78866	X	ACH C									Soft March	K EDTA	
Site	SSOW#			2005/00/2019 VIII VIII VIII VIII VIII VIII VIII VI	CASE SAN	alc BT										Man	Other:	
		Sample	Sample Ma	d Filtered S	orm MS/MS MOD_NM/80	B/5035FP_C	ORGFM_28	_BTEX_GC\ MOD_Calc								Number		
Sample Identification - Client ID (Lab ID)	Sample Date	1_	/4 	Fie	9 32 35 A	802	4	4-			-	-	1			Tot	Special In	Special Instructions/Note
SW. 27 (15) (890, 1502, 118)	4000004		Treservation Code:		2		-	- Jacon	-		-	- 60	- Bass			2		
SW-28 (15) (890-1502-119)	10/26/21	Mountain	2	Solid	× ;	× ;	< ;	< ; < ;	+	\bot	+	+	+			4] -		
SW-29 (15) (890-1502-120)	10/26/21	Mountain	တ္	Solid	×	×	-					\dashv	+	\top		* .		
SW-30 (RS) (6) (890-1502-121)	10/28/21	Mountain	Š	Solid	×	×						+	\dashv			*		
SW-31 (RS) (4) (890-1502-122)	10/28/21	Mountain	တ္	Solid	×	×	×	×			\dashv	\dashv		\exists				
SW-32 (RS) (6) (890-1502-123)	10/28/21	Mountain	õ	Solid	×	×	×	×				\dashv	+			هر		110000
SW-33 (RS) (8) (890-1502-124)	10/28/21	Mountain	တ္	Solid	×	×	×	×					+++			إخبا		
Note Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories, 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 instruatention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.	C places the ownership on the sagned Chain of Cus	of method analymples must be tody attesting to	yte & accreditation c shipped back to the	ompliance up Eurofins Xeno	on out su	bcontra	ct labor	atories er instn	This s	ample :	hipme	nt is for	warde	by to a	r chair	of-cu	status should be bro	instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC
Possible Hazard Identification Unconfirmed					Sample Disposal (A	ple Disposal (Af	osal (A fee	may	be as	sess:	Bull	amp	es a	∐e/e/	aine	er than	1 month)
Deliverable Requested I II III IV Other (specify)	Primary Deliverable Rank. 2	ble Rank. 2			Special Instructions/QC Requirements	Instru	ctions	/QCF	equir	ement	ents	10	8	- [1	Chombo Co	WOTHER
Empty Kit Relinquished by		Date		Time	ĕ	늴			l	1	3	Method of Shipment:	of Ship	nent:	١	į		
Relinquished by	Date/Time		Company	any	Rece		The state of the s	X	3		H	7	Dat	Date/Time.		1		Company
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Relinquished by	Date/Time		Company	any	Rece	Received by							Dat	Date/Time				Company
Custody Seals Intact. Custody Seal No					Cool	Cooler Temperature(s)	perature	റ്	and Other Remarks	er Ren	arks.		ŀ	١	١	١		

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	

<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

J. KRAMER

Authorized for release by: 5/16/2022 4:19:28 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

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Released to Imaging: 9/1/2023 3:25:35 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

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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

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
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)

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: 890-2290-1

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: 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	
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	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/14/22 12:33	05/15/22 14:33	1
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	1
- Method: Total BTEX - Total BT	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/16/22 16:56	-
Analyte Total TPH	Result 522	Qualifier		Unit mg/Kg	D	Prepared	Analyzed 05/11/22 10:27	Dil Fa
Total IPH	522		50.0	mg/Kg			05/11/22 10:27	
							00/11/22 10:21	ĺ
Method: 8015B NM - Diesel Ra	nge Organics (D	RO) (GC)					00/11/22 10:27	ĺ
		RO) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	
Analyte		Qualifier	RL	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared 05/10/22 08:18		Dil Fac
Analyte	Result	Qualifier			<u>D</u>		Analyzed	Dil Fac
C6-C10 Diesel Range Organics (Over	Result<50.0	Qualifier	50.0	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	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	mg/Kg mg/Kg	<u> </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 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 %Recovery	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	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 Qualifier	50.0 50.0 50.0 Limits 70 - 130	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	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

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	1

Eurofins Carlsbad

Lab Sample ID: 890-2290-2

Matrix: Solid

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Client Sample Results

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

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 B	TEX 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 Ra	nge Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	145	-	49.9	mg/Kg			05/11/22 10:27	1
Method: 8015B NM - Diesel R	Range Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6 C10			40.0	ma/Ka		05/10/22 08:18	05/10/22 16:05	

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 C10-C28)	62.5		49.9	mg/Kg		05/10/22 08:18	05/10/22 16:05	1
Oll Range Organics (Over C28-C36)	82.6		49.9	mg/Kg		05/10/22 08:18	05/10/22 16:05	1
	24-							

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-Terphenyl (Surr)	113	70 - 130	05/10/22 08:18	05/10/22 16:05	1

Method: 300.0 - Anions, Ion Chron	natography - 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

Date Collected: 05/06/22 00:00

Lab Sample ID: 890-2290-3

Matrix: Solid

Date Received: 05/06/22 15:23

Sample Depth: 5

Total TPH

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
1,4-Difluorobenzene (Surr)	102		70 - 130			05/14/22 12:33	05/15/22 15:28	1
Method: Total BTEX - Total BT	ΓEX 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 Rar	nge Organics (DR	O) (GC)						

Eurofins Carlsbad

05/11/22 10:27

50.0

mg/Kg

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Client: Tetra Tech, Inc.
Project/Site: Kaiser SWD

Job ID: 890-2290-1 SDG: Lea County NM

Client Sample ID: BH-94

Date Collected: 05/06/22 00:00
Date Received: 05/06/22 15:23

Lab Sample ID: 890-2290-3 Matrix: Solid

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)	114		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
			24.9	mg/Kg			05/12/22 07:52	5

Client Sample ID: BH-95 Lab Sample ID: 890-2290-4

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	<0.00200	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 BTE	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 Rang	•							
	•	O) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Rang Analyte Total TPH	•		RL 50.0	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/11/22 10:27	Dil Fac
Analyte Total TPH	Result 244	Qualifier			<u>D</u>	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rar	Result 244 nge Organics (Di	Qualifier			<u>D</u>	Prepared Prepared		
Analyte	Result 244 nge Organics (Di	Qualifier RO) (GC) Qualifier	50.0	mg/Kg			05/11/22 10:27	1
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte	Result 244 nge Organics (Di Result	Qualifier RO) (GC) Qualifier	50.0	mg/Kg		Prepared	05/11/22 10:27 Analyzed	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rai Analyte C6-C10	nge Organics (Digestrated Result <	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 05/10/22 14:37	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rar Analyte 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		Prepared 05/10/22 08:18	05/11/22 10:27 Analyzed 05/10/22 14:37	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte C6-C10 Diesel Range Organics (Over C10-C28)	Result 244	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 05/10/22 14:37 05/10/22 14:37	1 Dil Fac 1
Analyte Total TPH Method: 8015B NM - Diesel Rai Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	Result 244	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 05/10/22 14:37 05/10/22 14:37	1 Dil Fac 1
Analyte Total TPH Method: 8015B NM - Diesel Rai Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 244 nge Organics (Di Result <50.0 113	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 05/10/22 14:37 05/10/22 14:37	1 Dil Fac 1 1

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Job ID: 890-2290-1

Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-95 Lab Sample ID: 890-2290-4 Date Collected: 05/06/22 00:00

Matrix: Solid

Sample Depth: 5

Client: Tetra Tech, Inc.

Method: 300.0 - Anions, Ion Chrom	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

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 12:33	05/15/22 16:23	
Toluene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 16:23	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 16:23	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/14/22 12:33	05/15/22 16:23	
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/14/22 12:33	05/15/22 16:23	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/14/22 12:33	05/15/22 16:23	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	107		70 - 130			05/14/22 12:33	05/15/22 16:23	
1,4-Difluorobenzene (Surr)	102		70 - 130			05/14/22 12:33	05/15/22 16:23	
Method: Total BTEX - Total BTI	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00400	U	0.00400	mg/Kg			05/16/22 16:56	
Method: 8015 NM - Diesel Rang	no Organice (DP)	O) (GC)						
Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	166		49.9	mg/Kg			05/11/22 10:27	
Method: 8015B NM - Diesel Ra	nge Organics (D	RO) (GC)						
Analyte	•	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 C10-C28)	55.3		49.9	mg/Kg		05/10/22 08:18	05/10/22 15:21	•
Oll Range Organics (Over C28-C36)	111		49.9	mg/Kg		05/10/22 08:18	05/10/22 15:21	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane (Surr)	107		70 - 130			05/10/22 08:18	05/10/22 15:21	
o-Terphenyl (Surr)	95		70 - 130			05/10/22 08:18	05/10/22 15:21	
· Method: 300.0 - Anions, Ion Ch	romatography -	Soluble						
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	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 BT	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	Qualifier	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/11/22 10:27	Dil Fa
IOTALIPH -	238		49.9	mg/kg			05/11/22 10.27	
Method: 8015B NM - Diesel Ra	nge Organics (D	RO) (GC)						
Analyte	Result	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 C28-C36)	140		49.9	mg/Kg		05/10/22 08:18	05/10/22 14:59	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
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						
Analyte	Result	Qualifier	RL 49.8	Unit mg/Kg	D	Prepared	Analyzed	Dil Fa

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 Sample Results

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

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 B1	ΓEX 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 Rar	nge Organics (DR	O) (GC)						
Analyte	• • •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	102		50.0	mg/Kg			05/11/22 10:27	1
- Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)						
Analyte	• • •	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	<50.0	U	50.0	mg/Kg		05/10/22 08:18	05/10/22 15:43	1
C10-C28)								
Oll Range Organics (Over	102		50.0	mg/Kg		05/10/22 08:18	05/10/22 15:43	1
C28-C36)								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)			70 - 130			05/10/22 08:18	05/10/22 15:43	1
i Omoroodano (Gan)								

Method: 300.0 - Anions, Ion Chromatography - SolubleAnalyteResultQualifierRLUnitDPreparedAnalyzedDil FacChloride209025.0mg/Kg05/12/22 13:335

Client Sample ID: BH-99
Date Collected: 05/06/22 00:00
Date Received: 05/06/22 15:23

Sample Depth: 5

Total TPH

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	ΓEX 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)						

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05/11/22 10:27

Lab Sample ID: 890-2290-8

Matrix: Solid

50.0

mg/Kg

73.6

2

3

5

7

9

11

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 B1	TEX 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
TOTAL DI LIX								
- -								
- -	nge Organics (DR							
Method: 8015 NM - Diesel Rar Analyte	•		RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
: Method: 8015 NM - Diesel Rar	•	O) (GC)			<u>D</u>	Prepared		Dil Fac
Method: 8015 NM - Diesel Rar Analyte	Result 56.8	O) (GC) Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	
Method: 8015 NM - Diesel Rar Analyte Total TPH	Result 56.8 ange Organics (D	O) (GC) Qualifier	RL	Unit	<u>D</u>	Prepared Prepared	Analyzed	
Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Ra	Result 56.8 ange Organics (D	O) (GC) Qualifier RO) (GC) Qualifier	RL 49.9	<mark>Unit</mark> mg/Kg			Analyzed 05/11/22 10:27	1
Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte	Result 56.8 ange Organics (D Result	Qualifier RO) (GC) Qualifier U		Unit mg/Kg		Prepared	Analyzed 05/11/22 10:27 Analyzed	1 Dil Fac
Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte C6-C10	Result 56.8 ange Organics (D Result <49.9	Qualifier RO) (GC) Qualifier U	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 16:49	Dil Fac
Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte C6-C10 Diesel Range Organics (Over	Result 56.8 ange Organics (D Result <49.9	Qualifier RO) (GC) Qualifier U	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 16:49	Dil Fac
Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	Result 56.8 ange Organics (D Result < 49.9 < 49.9	Qualifier RO) (GC) Qualifier U U	RL 49.9 RL 49.9 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 16:49 05/10/22 16:49	1 Dil Fac 1
Method: 8015 NM - Diesel Rar Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 56.8 ange Organics (D Result < 49.9 < 49.9	Qualifier RO) (GC) Qualifier U U	RL 49.9 RL 49.9 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 16:49 05/10/22 16:49 05/10/22 16:49	Dil Fac 1 1 1

Lab Sample ID: 890-2290-9

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

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	5050	49.7	mg/Kg			05/12/22 13:49	10

Client Sample ID: BH-101 Lab Sample ID: 890-2290-10 **Matrix: Solid**

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Total BTEX

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: 8015 NM - Diesel Range C	Organics (DRO) (GC)						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	ma/Ka			05/11/22 10:27	1

0.00398

Unit

mg/Kg

Prepared

Analyzed

05/16/22 16:56

Result Qualifier

<0.00398 U

Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
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
1-Chlorooctane (Surr)	105		70 - 130			05/10/22 08:18	05/10/22 12:49	1
o-Terphenyl (Surr)	103		70 - 130			05/10/22 08:18	05/10/22 12:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble								
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 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 C	ompounds (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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Dil Fac

Lab Sample ID: 890-2290-11

Client Sample Results

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	•
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 (DP)	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		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 Chr	omatography -	Soluble						
	• • •				_			
Analyte	Result	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

Lab Sample ID: 890-2290-12

Matrix: Solid

Client Sample ID: BH-103

Date Collected: 05/06/22 00:00

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2290-1 SDG: Lea County NM

Lab Sample ID: 890-2290-12

Matrix: Solid

Date Received: 05/06/22 15:23 Sample Depth: 5

Calculation							
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00403	U	0.00403	mg/Kg			05/16/22 16:56	1
Organics (DR	O) (GC)						
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<50.0	U	50.0	mg/Kg			05/11/22 10:27	1
Organics (D	RO) (GC)						
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<50.0	U	50.0	mg/Kg		05/10/22 08:18	05/10/22 17:54	1
<50.0	U	50.0	mg/Kg		05/10/22 08:18	05/10/22 17:54	1
<50.0	11	50.0	ma/Ka		05/10/22 08:18	05/10/22 17:54	
	Result <0.00403	Result Qualifier	Column	Result Qualifier RL Unit mg/Kg	Result Qualifier RL Unit D mg/Kg	Result Qualifier RL Unit D Prepared	Result Qualifier RL Unit D Prepared O5/16/22 16:56

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
Mothod: 200.0. Aniona Jon Chron	notography Colubia				

Method: 300.0 - Anions, Ion Chron	natography - 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 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	<0.00199	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
1,4-Difluorobenzene (Surr)	103		70 - 130			05/14/22 12:37	05/14/22 19:48	1
- Method: Total BTEX - Total B1	ΓEX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total BTEX	Result <0.00398		RL 0.00398	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/16/22 16:56	Dil Fac
Total BTEX	<0.00398	U			<u>D</u>	Prepared		Dil Fac
Total BTEX Method: 8015 NM - Diesel Rar	<0.00398	U			<u>D</u> D	Prepared Prepared		Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Rar Analyte Total TPH	<0.00398	U (GC) Qualifier	0.00398	mg/Kg	<u> </u>		05/16/22 16:56	1
Total BTEX Method: 8015 NM - Diesel Rar Analyte	<0.00398 nge Organics (DR Result <50.00	O) (GC) Qualifier	0.00398 RL	mg/Kg	<u> </u>		05/16/22 16:56 Analyzed	1 Dil Fac
Total BTEX Method: 8015 NM - Diesel Rar Analyte Total TPH	<0.00398 nge Organics (DR Result <50.0 ange Organics (D	O) (GC) Qualifier	0.00398 RL	mg/Kg	<u> </u>		05/16/22 16:56 Analyzed	1 Dil Fac

Lab Sample ID: 890-2290-13

Job ID: 890-2290-1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/10/22 08:18	05/10/22 18:15	1
C10-C28)								
Oll 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)	116		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
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3010		24.8	mg/Kg			05/12/22 14:38	5

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

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 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
Made di 0045 NM - Diagraf Day	0	0) (00)						
Method: 8015 NM - Diesel Rang			DI	11-4	_	D	A b d	D!! F
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	176		49.9	mg/Kg			05/11/22 10:27	1
Method: 8015B NM - Diesel Ra	nge 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 20:02	1
Diesel Range Organics (Over	54.4		49.9	mg/Kg		05/10/22 08:18	05/10/22 20:02	1
C10-C28)								1
Oll Range Organics (Over	122		49.9	mg/Kg		05/10/22 08:18	05/10/22 20:02	1
•	122		49.9	mg/Kg		05/10/22 08:18	05/10/22 20:02	1
Oll Range Organics (Over	122 %Recovery	Qualifier	49.9	mg/Kg		05/10/22 08:18 Prepared	05/10/22 20:02 Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)		Qualifier		mg/Kg				

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

Method: 300.0 - Anions, Ion Chromatography - Soluble RL Analyte Result Qualifier Unit D Dil Fac Prepared Analyzed 05/12/22 15:03 5.01 Chloride 954 mg/Kg

Client Sample ID: BH-106

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

REMOVED FROM ANALYSIS TABLE

Result Qualifier

<0.800 U

Lab Sample ID: 890-2290-15

Analyzed

05/16/22 16:56

Lab Sample ID: 890-2290-14

Matrix: Solid

Sample Depth: 5

Analyte

Total BTEX

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

Method: 8015 NM - Diesel Ra	ange Organics (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 I	Range Organics (DRO) (GC)						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

0.800

Unit

mg/Kg

Prepared

7 y			•	pu	,u y = u u	
C6-C10	412	249	mg/Kg	05/10/22 08:18	05/10/22 18:37	5
Diesel Range Organics (Over C10-C28)	7610	249	mg/Kg	05/10/22 08:18	05/10/22 18:37	5
Oll Range Organics (Over C28-C36)	1670	249	mg/Kg	05/10/22 08:18	05/10/22 18:37	5
Surrogate	%Recovery Qualifier	l imite		Propared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	110		70 - 130	05/10/22 08:18	05/10/22 18:37	5
o-Terphenyl (Surr)	105		70 - 130	05/10/22 08:18	05/10/22 18:37	5

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	736		24.9	mg/Kg			05/12/22 16:27	5

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Dil Fac

Lab Sample ID: 890-2290-16

Client Sample Results

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 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	Result	Qualifier		mg/Kg	D	Prepared	Analyzed 05/11/22 10:27	Dil Fa
<u>*</u>		<u>quamor</u>			_ <u>-</u>	Tropurou		
Method: 8015B NM - Diesel Ra		DO) (OO)						
	nge Organics (ט	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte C6-C10		Qualifier	RL 50.0	Unit mg/Kg	<u>D</u>	Prepared 05/10/22 08:18	Analyzed 05/10/22 19:41	
	Result	Qualifier			<u>D</u>	<u>.</u>		
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 19:41	
C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.0 169 169 %Recovery	Qualifier U	50.0 50.0 50.0	mg/Kg mg/Kg	<u> </u>	05/10/22 08:18 05/10/22 08:18 05/10/22 08:18 Prepared	05/10/22 19:41 05/10/22 19:41 05/10/22 19:41 Analyzed	
C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U	50.0 50.0 50.0	mg/Kg mg/Kg	<u> </u>	05/10/22 08:18 05/10/22 08:18 05/10/22 08:18	05/10/22 19:41 05/10/22 19:41 05/10/22 19:41	Dil Fa
C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.0 169 169 %Recovery	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 19:41 05/10/22 19:41 05/10/22 19:41 Analyzed	Dil Fa
C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane (Surr)	Result	Qualifier U	50.0 50.0 50.0 Limits 70 - 130	mg/Kg mg/Kg	<u> </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	05/10/22 19:41 05/10/22 19:41 05/10/22 19:41 Analyzed 05/10/22 19:41	Dil Fa
C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane (Surr) o-Terphenyl (Surr)	Result	Qualifier U	50.0 50.0 50.0 Limits 70 - 130	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	05/10/22 19:41 05/10/22 19:41 05/10/22 19:41 Analyzed 05/10/22 19:41	Dil Fac

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

Method: 8021B - Volatile Organic Compounds (GC)

Method: 8021B - Volatile Organic	Compounds (GC)						
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

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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

Method: 8021B - Volatile Organic Compounds (GC) (Continued)	

Surrogate		%Recovery	Qualifier	Limits		Prepared	Anaiyzea	DII Fac
1,4-Difluoroben	zene (Surr)	98		70 - 130	_	05/14/22 12:37	05/14/22 22:31	200

ı	
ı	Method: Total BTEX - Total BTEX Calculation
ı	Michiga. Total BTEX - Total BTEX Galculation

Analyte	Result Qu	ualifier 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 Range	Organics (DRO) (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 Range Organics (DRO) (GC)
ı	Method: 0010B NM - Dieser Kange Organics (BRO) (00)

metriod. 6013b Nim - Dieser Range Organics (bRO) (00)								
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 C10-C28)	7670		250	mg/Kg		05/10/22 08:18	05/10/22 18:58	5
Oll Range Organics (Over C28-C36)	1310		250	mg/Kg		05/10/22 08:18	05/10/22 18:58	5

•						
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

Γ					
o-Terphenyl (Surr)	98	70 - 130	05/10/22 08:18	05/10/22 18:58	5
1-Chlorooctane (Surr)	100	70 - 130	05/10/22 08:18	05/10/22 18:58	5

Method: 300.0 - Anions, i	on Chromatography - Soluble
Δnalvte	Result Qualifier

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 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

Method: 8021B -	Volatile Organ	ic Compounds	(GC)
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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

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 BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	DII Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/16/22 16:56	1

	Method: 8015	NM - Diese	Range	Organics	(DRO)	(GC)
ı	Mictilioa. 0010	ININ - DICSC	i italige	Organics	(DitO)	(00)

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	86.4	49.9	mg/Kg			05/11/22 10:27	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-109

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Sample Depth: 5

Method: 8015B NM - Diesel Rai	nge 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)								
OII 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)			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 Ch	romatography -	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	• • •							
Method: 8015 NM - Diesel Ranç Analyte	• • •	O) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	• • •		RL 50.0	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/11/22 10:27	Dil Fac
Analyte	Result 1660	Qualifier			<u>D</u>	Prepared		
Analyte Total TPH	Result 1660	Qualifier			<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: 8015B NM - Diesel Rai	Result 1660	Qualifier RO) (GC) Qualifier	50.0	mg/Kg		<u> </u>	05/11/22 10:27	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rai Analyte	Result 1660 nge Organics (D	Qualifier RO) (GC) Qualifier	50.0	mg/Kg		Prepared	05/11/22 10:27 Analyzed	1
Analyte Total TPH Method: 8015B NM - Diesel Rai Analyte C6-C10 Diesel Range Organics (Over C10-C28)	Result 1660	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	1 Dil Fac 1
Analyte Total TPH Method: 8015B NM - Diesel Rai Analyte C6-C10 Diesel Range Organics (Over	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	1 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 05/10/22 08:18	05/11/22 10:27 Analyzed 05/11/22 07:03 05/11/22 07:03	1 Dil Fac 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-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 Chromatography -	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

Date Collected: 05/06/22 00:00

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	<0.00202	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 BTEX C	alculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			05/16/22 16:56	1

Method: 8015 NM - Diesel Range O							
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	64.3	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	49.9	mg/Kg		05/10/22 08:18	05/10/22 20:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/10/22 08:18	05/10/22 20:45	1
Oll Range Organics (Over C28-C36)	64.3		49.9	mg/Kg		05/10/22 08:18	05/10/22 20:45	1
Surrogate	%Recovery	Qualifier	l imits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130	05/10/22 08:18	05/10/22 20:45	1
o-Terphenyl (Surr)	94		70 - 130	05/10/22 08:18	05/10/22 20:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	3640		25.1	mg/Kg			05/12/22 15:24	5		

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Method: 8015B NM - Diesel Range Organics (DRO) (GC)

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	
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	
1,4-Difluorobenzene (Surr)	92		70 - 130			05/14/22 12:37	05/15/22 00:44	
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00403	U	0.00403	mg/Kg			05/16/22 16:56	
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	362		50.0	mg/Kg			05/11/22 10:27	•
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	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/09/22 16:33	05/10/22 19:05	•
Oll 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	
o-Terphenyl (Surr)	123		70 - 130			05/09/22 16:33	05/10/22 19:05	
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	374		5.00	mg/Kg			05/12/22 13:00	

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

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	e 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
OII 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

ab Sample ID 90-2290-1 90-2290-2 90-2290-3 90-2290-4 90-2290-5 90-2290-6 90-2290-7 90-2290-8 90-2290-9 90-2290-10	Client Sample ID BH-92 BH-93 BH-94 BH-95 BH-96 BH-97 BH-98 BH-99 BH-100	98 96 99 99 107 106 103	103 100 102 102 102 102 101	
90-2290-2 90-2290-3 90-2290-4 90-2290-5 90-2290-6 90-2290-7 90-2290-8 90-2290-9 90-2290-10	BH-93 BH-94 BH-95 BH-96 BH-97 BH-98 BH-99	96 99 99 107 106 103	100 102 102 102 101	
90-2290-3 90-2290-4 90-2290-5 90-2290-6 90-2290-7 90-2290-8 90-2290-9 90-2290-10	BH-94 BH-95 BH-96 BH-97 BH-98 BH-99	99 99 107 106 103	102 102 102 101	
90-2290-4 90-2290-5 90-2290-6 90-2290-7 90-2290-8 90-2290-9 90-2290-10	BH-95 BH-96 BH-97 BH-98 BH-99	99 107 106 103	102 102 101	
90-2290-5 90-2290-6 90-2290-7 90-2290-8 90-2290-10	BH-96 BH-97 BH-98 BH-99	107 106 103	102 101	
90-2290-6 90-2290-7 90-2290-8 90-2290-9 90-2290-10	BH-97 BH-98 BH-99	106 103	101	
90-2290-7 90-2290-8 90-2290-9 90-2290-10	BH-98 BH-99	103		
90-2290-8 90-2290-9 90-2290-10	BH-99			
90-2290-9 90-2290-10			100	
90-2290-10	DI 100	113	103	
	DH-100	109	99	
00 0000 40 140	BH-101	105	101	
90-2290-10 MS	BH-101	103	108	
90-2290-10 MSD	BH-101	87	96	
90-2290-11	BH-102	103	103	
90-2290-12	BH-103	108	104	
90-2290-13	BH-104	106	103	
0-2290-14	BH-105	105	92	
0-2290-15	BH-106	90	94	
0-2290-16	BH-107	90	98	
0-2290-17	BH-108	99	98	
0-2290-18	BH-109	110	105	
0-2290-19	BH-110	74	96	
90-2290-20	BH-111	100	100	
90-2290-21	BH-112	87	92	
0-2290-22	BH-113	107	102	
CS 880-25563/1-A	Lab Control Sample	95	103	
CS 880-25564/1-A	Lab Control Sample	101	100	
CSD 880-25563/2-A	Lab Control Sample Dup	99	105	
CSD 880-25564/2-A	Lab Control Sample Dup	96	107	
B 880-25563/5-A	Method Blank	77	94	
B 880-25564/5-A	Method Blank	77	92	

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Su
		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	

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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 Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2290-8	BH-99	107	96	
890-2290-9	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	
890-2290-11	BH-102	124	118	
890-2290-12	BH-103	105	97	
890-2290-13	BH-104	116	113	
890-2290-14	BH-105	108	96	
890-2290-15	BH-106	110	105	
890-2290-16	BH-107	113	99	
890-2290-17	BH-108	100	98	
890-2290-18	BH-109	117	109	
890-2290-19	BH-110	111	106	
890-2290-20	BH-111	103	94	
890-2290-21	BH-112	116	123	
890-2290-22	BH-113	101	108	
LCS 880-25199/2-A	Lab Control Sample	123	124	
LCS 880-25221/2-A	Lab Control Sample	104	93	
LCSD 880-25199/3-A	Lab Control Sample Dup	129	132 S1+	
LCSD 880-25221/3-A	Lab Control Sample Dup	124	109	
MB 880-25199/1-A	Method Blank	99	103	
MB 880-25221/1-A	Method Blank	110	117	

1CO = 1-Chlorooctane (Surr)

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

Analysis Batch: 25561							Prep Batch	n: 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

Surrogate	%Recovery	Qualifier	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

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Type: Total/NA

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	Qualifier	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

мв мв

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

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2290-1 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-25564/5-A **Matrix: Solid**

Analysis Batch: 25561

Client Sample ID: Method Blank

70 - 130

70 - 130

112

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

MB MB

	Surrogate	%Recovery	Qualifier	Limits	Prepare	ed Analyzed	Dil Fac
	4-Bromofluorobenzene (Surr)	77		70 - 130	05/14/22 1	2:37 05/14/22 18	:01 1
ı	1,4-Difluorobenzene (Surr)	92		70 - 130	05/14/22 1	2:37 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								Batch: 25564
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1104		mg/Kg		110	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		mg/Kg		115	70 - 130	

0.100

0.100

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 Client Sample ID: Lab Control Sample Dup

Matrix: Solid

o-Xylene

o-Xylene

Analysis Batch: 25561

7 maryone Batom 2000.									
	Spike	LCSD L	.CSD				%Rec		RPD
Analyte	Added	Result Q	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

0.1122

0.1106

mg/Kg

mg/Kg

LCSD LCSD

Surrogate	%Recovery Qualifier	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

CII	ont Si	mnla	ID: E	3H-101	
UII	en o	munit	ID. E	3M-1U1	

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 25564

35

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

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2290-1 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2290-10 MS **Matrix: Solid**

Analysis Batch: 25561

Client Sample ID: BH-101 Prep Type: Total/NA Prep Batch: 25564

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Unit %Rec Limits D <0.00199 U 0 101 0.08784 87 70 - 130 mg/Kg

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 890-2290-10 MSD

Matrix: Solid

Analyte

o-Xylene

Analysis Batch: 25561

Client Sample ID: BH-101 Prep Type: Total/NA

Prep Batch: 25564 Sample Sample MSD MSD Spike Result Qualifier Limit Analyte Added Result Qualifier Unit %Rec Limits RPD D Benzene <0.00199 U 0.100 0.08471 mg/Kg 85 70 - 130 18 35 < 0.00199 U 0.100 0.08214 82 70 - 130 11 35

Toluene mg/Kg 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 U 0.100 0.07935 79 70 - 130 35 o-Xylene 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

Matrix: Solid

Analysis Batch: 25231

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 25199

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

Matrix: Solid

Analysis Batch: 25231

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25199

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %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

MB MB

%Recovery Surrogate Qualifier Limits 1-Chlorooctane (Surr) 70 - 130 123

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

LCSD LCSD Spike %Rec 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)

LCSD LCSD Surrogate %Recovery Qualifier Limits 129 70 - 130 1-Chlorooctane (Surr) o-Terphenyl (Surr) 132 S1+ 70 - 130

Lab Sample ID: 880-14554-A-1-C MS

Matrix: Solid

Analysis Batch: 25231

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

C10-C28)

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

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 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. Job ID: 890-2290-1 Project/Site: Kaiser SWD 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

		111.0						
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

мв мв

MR MR

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

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-25221/2-A **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 25235 Prep Batch: 25221 Spike LCS LCS

Analyte	Added	Result C	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)

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	104		70 - 130
o-Terphenyl (Surr)	93		70 - 130

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 880-25221/3-A **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 25235**

Prep Batch: 25221

	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 C10-C28)	1000	1177		mg/Kg		118	70 - 130	17	20

LCSD LCSD

Surrogate	%Recovery Qual	ifier 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 **Matrix: Solid**

Analysis Batch: 25235 Prep Batch: 25221

	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)

Released to Imaging: 9/1/2023 3:25:35 PM

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	107		70 - 130
o-Terphenyl (Surr)	92		70 - 130

Eurofins Carlsbad

Prep Type: Total/NA

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 Client Sample ID: BH-101 **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 25235 Prep Batch: 25221 Sample Sample Spike MSD MSD

									,		
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 Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 25351

мв мв Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac <5.00 U 5.00 05/12/22 06:55 Chloride mg/Kg

Lab Sample ID: LCS 880-25289/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 25351

Spike LCS LCS %Rec babbA Result Qualifier Analyte %Rec Limits Unit

Chloride 250 270.0 mg/Kg 108 90 - 110

Lab Sample ID: LCSD 880-25289/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 25351

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	269.9		mg/Kg	_	108	90 - 110	0	20	

Lab Sample ID: 890-2290-1 MS Client Sample ID: BH-92 **Prep Type: Soluble**

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	ma/Ka		114	90 - 110	

Lab Sample ID: 890-2290-1 MSD Client Sample ID: BH-92 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 25351											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	4070	F1	2530	6972	F1	mg/Kg		115	90 - 110	0	20

Job ID: 890-2290-1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2290-11 MS Client Sample ID: BH-102 **Matrix: Solid**

Prep Type: Soluble

Analysis Batch: 25351

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

Lab Sample ID: 890-2290-11 MSD Client Sample ID: BH-102 **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

Prep Type: Soluble

Matrix: Solid

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 Analyte Added 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 Sample Spike MS MS %Rec Added Result Qualifier 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

7												
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	208		248	435.7		mg/Kg		92	90 - 110	1	20	

Client: Tetra Tech, Inc. Job ID: 890-2290-1 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
890-2290-1	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	

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 Batc
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 Batc
390-2290-1	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	
390-2290-5	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	
390-2290-14	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	
390-2290-21	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. Job ID: 890-2290-1 Project/Site: Kaiser SWD 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 Batch
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

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

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Client: Tetra Tech, Inc. Job ID: 890-2290-1 Project/Site: Kaiser SWD SDG: Lea County NM

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	Туре	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

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			5.04 g	5 mL	25563	05/14/22 12:33	MR	XEN MID
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 MIC
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 **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	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: Tetra Tech, Inc. Job ID: 890-2290-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-95 Lab Sample ID: 890-2290-4 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
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 Lab Sample ID: 890-2290-5

Date Collected: 05/06/22 00:00 **Matrix: Solid**

Date Received: 05/06/22 15:23

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 Lab Sample ID: 890-2290-6

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 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 MID
Soluble	Analysis	300.0		10			25351	05/12/22 13:24	CH	XEN MID

Lab Sample ID: 890-2290-7 Client Sample ID: BH-98

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

Eurofins Carlsbad

Matrix: Solid

Matrix: Solid

Job ID: 890-2290-1

SDG: Lea County NM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

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 Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Soluble DI Leach 25289 Leach 5 g 50 mL 05/10/22 17:06 SC XEN MID 300.0 05/12/22 13:33 Soluble Analysis 5 25351 СН 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 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			5.05 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

Eurofins Carlsbad

Matrix: Solid

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2290-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-102

Lab Sample ID: 890-2290-11

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		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

Client Sample ID: BH-103 Lab Sample ID: 890-2290-12

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23

Date Received: 05/06/22 15:23

Dil Initial Final Batch 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 Analysis 1 MR XEN MID 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 Leach DI Leach 5.01 g 50 mL 25289 05/10/22 17:06 SC XEN MID 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

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

Client Sample ID: BH-105

Date Collected: 05/06/22 00:00

Lab Sample ID: 890-2290-14

Matrix: Solid

25351

05/12/22 14:38 CH

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Date Received: 05/06/22 15:23

Analysis

300.0

Soluble

Γ	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

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XEN MID

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Matrix: Solid

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Job ID: 890-2290-1

Client: Tetra Tech, Inc. 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 Lab Sample ID: 890-2290-14

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			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 **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		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

Client Sample ID: BH-107 Lab Sample ID: 890-2290-16 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			4.99 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 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			5.03 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 Total/NA	Prep Analysis	8015NM Prep 8015B NM		5	10.01 g	10 mL	25221 25235	05/10/22 08:18 05/10/22 18:58	DM SM	XEN MID XEN MID

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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-108

Date Received: 05/06/22 15:23

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

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	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

Job ID: 890-2290-1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-112 Lab Sample ID: 890-2290-21

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			4.96 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	СН	XEN MIC
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	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	.,
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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

Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

890-2290-22

BH-113

Job ID: 890-2290-1 SDG: Lea County NM

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

Solid

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Permian Waster Solutions	Received by
Project #: 212C-MD-02230 Sampler Signature: Ezequiel Moreno Sampler Signature: Ezequie	September September Septem
# CONTAINERS Date: Time: Date: ## CONTAINERS Filtered (Y/N) PRESERVATIVE PRE	
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	Date: Time:		Date: Time:	June 5/6/22 1500	Time:	BH-111 (5')	BH-110 (5')	BH-109 (5')	BH-108 (5')	вн-107 (5')	BH-106 (5')	BH-105 (5')	BH-104 (5')	ВН-103 (5')	Вн-102 (5')		SAMPLE IDENTIFICATION			Eurofins Xenco	Dusty McInturff - Permian Water Solutions		Lea County, New Mexico	Kaiser SWD	Permian Water Solutions	Tetra Tech, Inc.	Analysis Request of Chain of Custody Record
	Received by:		Received by:	((14)	Received by:	5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022	DATE	YEAR: 2020	SAMPLING			Sampler Signature:		Project #:		Site Manager:		
	Date: Time:		/ Date: Time:	CP 3. C. 40	Date: Time:	×	×	×	×	×	×	×	×	×	×	WATI SOIL HCL HNO: ICE None	3	MATRIX PRESERVATIVE METHOD		Ezequiel Moreno			212C-MD-02230		Clair Gonzales	901W Wall Street, Ste 100 Midland, Texas 79705 Tel (432) 882-4559 Fax (432) 882-3946	
(Circle) HAND DELIVERED FEDEX UPS Tracking #:	Special Report Limits or TRRP Report	Rush Charges Authorized	Sample Temperature RUSH: Same Day 24 iii 40	24 - 24 - 24 - 24 - 24 - 24 - 24 - 24 -	LAB USE X STANDARD	×		×	×	×	×	×	×	×	×	TPH I	RED 8021 TX100 8015M 82700 Metals Metal Volati Semi S Vol. 8 Semi Asbes de ide	(Y/N) B BT 55 (Ext to find GRCC) 6 Ag As as as Ag As as s Ag As as s Ag As as s Ag As as s Ag As as as Ag As as as as as as as as as as as as as as	- DRO - Ba Cd C Ba Cd C S 6/624 8270C/6	ORO	Se H	9	ist)		ANALYSIS REQUEST (Circle or Specify Method No.)		rage
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	Relinquished by:		Relinquished by:	1 miles	Relinquished by:										(LAB USE)	LAB#		Comments:		Receiving Laboratory:	invoice to:	Project Location: (county, state)	Project Name:	Client Name:	4	Analysis Request
	Date: Time:		Date: Time:	June 5/6/22 1524	Date: Time:			344-01 (0-0)	SW.37 (0.5')	SW-36 (0-5')	SW-35 (0-5')	SW-34 (0-5')	BH-113 (5')	BH-112 (5')		SAMPLE IDENTIFICATION			Eurofins Xenco	Dusty McInturff - Permian Water Solutions		Lea County, New Mexico	Kaiser SWD	Permian Water Solutions	Tetra Tech, Inc.	Analysis Request of Chain of Custody Record
	Received by:		Received by:	()(co (Received by:		-	CICIECE	5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022	DATE	YEAR: 2020	SAMPLING			Sampler Signature:		Project #:		Site Manager:		
	Date: Time:		Date: Time:	JP 5.693	Date: Time:					×	×	×	×	×	WAT SOIL HCL HNO ICE None	3	MATRIX PRESERVATIVE		Ezequiel Moreno			212C-MD-02230		Clair Gonzales	901W Wall Street, Ste 100 Midland,Tcxas 79705 Tel (432) 862-459 Fax (432) 862-3946	
(Circle) HAND DELIVERED FEDEX UPS Tracking #:	Special Report Limits or TRRP Report	Rush Charges Authorized	Sample Temperature RUSH: Same Day 24 hr 48 nr	ONLY	LAB USE REMARK					×	×	×		×	BTEX TPH TPH PAH Total TCLP TCLP RCI GC/M GC/M PCB's NORI PLM Chlor Gene	8021 TX100 8015N 82700 Metals Metals Volat Semi IS Vol. IS Sems M (Asbe: ide ide cral W	(Y/N) B BT 55 (Ext to 1 (GRC) c Ag As as Ag As Ag As as Ag As as Ag As as Ag As as Ag As as Ag As as Ag As Ag As as Ag As Ag As as Ag As Ag As Ag As Ag As Ag As Ag As Ag As Ag As Ag As Ag As Ag Ag As Ag Ag Ag Ag Ag Ag Ag Ag Ag Ag Ag Ag A	Ba Cd C Ba Cd C Ba Cd C S S 3 / 624 B270C/6	ORO Or Pb S Cr Pb	Se H	9	list)		ANALYSIS REQUEST (Circle or Specify Method No.)		T agg a
	port		7 /2 0.7	;											Hold											2

Eurofins Carlsbad 1089 N Canal St

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Chain of Custody Record

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eurofins |

Environment Testing America

BH-95 (890-2290-4) BH-94 (890-2290-3) BH-93 (890-2290-2) Project Name[.] Kaiser SWD BH-97 (890-2290-6) BH-92 (890-2290-1) Sample Identification - Client ID (Lab ID) BH-100 (890-2290-9) BH-99 (890-2290-8) BH-98 (890-2290-7) BH-96 (890-2290-5) 432-704-5440(Tel) Midland lote Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the aboratory does not currently maintain accreditation in the State of Origin listed above for analysis/hests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to careditation status should be brought to Eurofins Environment Testing South Central LLC, attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC. ΓX, 79701 state, Zip: Shipping/Receiving Carlsbad, NM 88220 Phone: 575-988-3199 Fax. 575-988-3199 ossible Hazard Identification 211 W Florida Ave eliverable Requested | | | | | | | | | | | | Other (specify) mpty Kit Relinquished by lient Information (Sub Contract Lab) linquished by linquished by linquished by: urofins Environment Testing South Centr Ž 3 Custody Seal No かららる Primary Deliverable Rank PO# Due Date Requested 5/12/2022 Date/Time Date/Time 88001057 TAT Requested (days): roject# Sample Date 5/6/22 5/6/22 5/6/22 5/6/22 5/6/22 5/6/22 5/6/22 5/6/22 5/6/22 Date Mountain Mountain Mountain Mountain Mountain Mountain Mountain Mountain Mountain Sample (C=comp, G=grab) Sample Preservation Code: Type Company Company Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid E-Mail Lab PM Kramer Jessica Jessica Kramer@et.eurofinsus com Field Filtered Sample (Yes or No) lime: NELAP - Texas Accreditations Required (See note) Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon Perform MS/MSD (Yes or No) Special Instructions/QC Requirements 8015MOD_NM/8015NM_S_Prep Full TPH Received by: × × × × × × × × Cooler Temperature(s) °C and Other Remarks × × × 8016MOD Calc × × × × × Analysis Requested State of Origin: New Mexico Carrier Tracking No(s) Date/Time - N **Total Number of containers** 7 1910 A HCL
B. NAOH
C. TA Acetale
D. Nitric Acid
E. NaHSO4
F. MeOH
G. Amchlor
H. Ascorbic Acid J - DI Water K EDTA L EDA COC No 890-747 1 Preservation 890-2290-1 Page 1 of 3 Special Instructions/Note M Hexane
N None
O AsNaO2
P-Na2O4S
Q Na2SO3
R Na2SO3
S H2SO4
T TSP Dodecahydrate
U Acetone
V MCAA
W A-11-7 R Na2S2O3
S H2SO4
T TSP Dodecahyd
U Acetone
V MCAA
W-pH 4-5
Z other (specify) Company Ver: 06/08/2021 Months

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Eurofins Carlsbad

1089 N Canal St

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Chain of Custody Record

BH-101 (890-2290-10) BH-108 (890-2290-17) BH-107 (890-2290-16) BH-106 (890-2290-15) BH-104 (890-2290-13) BH-103 (890-2290-12) BH-102 (890-2290-11) State Zip: TX 79701 BH-109 (890-2290-18) BH-105 (890-2290-14) Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199 432-704-5440(Tel) ossible Hazard Identification lote. Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody if the aboratory 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 Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to careditation status should be brought to Eurofins Environment Testing South Central LLC. (aiser SWD Custody Seals I ∆ Yes ∆ N mpty Kit Relinquished by ample Identification - Client ID (Lab ID) /lidland elinquished by eliverable Requested | || || |V 211 W Florida Ave oject Name linquished by rofins Environment Testing South Centr iipping/Receiving ient Information confirmed 8 intact: (Sub Contract Lab) Custody Seal No Other (specify) 7 ڡ۬ ý Project #: 88001057 Phone Due Date Requested Date/Time Primary Deliverable Rank. 2 TAT Requested (days) 5/6/22 5/6/22 5/6/22 5/6/22 5/6/22 5/6/22 5/6/22 5/6/22 5/6/22 Mountain Mountain Mountain Mountain Mountain Mountain Mountain Mountain Mountain Sample (C=comp, G=grab) Sample Preservation Code: Type Company Company Company S=solid Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid Jessica Kramer@et eurofinsus com E-Mail Kramer Jessica NELAP - Texas Ime creditations Required (See note) Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal By Lab Archive For Mon Perform MS/MSD (Yes or No) Special Instructions/QC Requirements × × × × 8016MOD_NM/8016NM_S_Prep Full TPH Received by × × × × Cooler Temperature(s) °C and Other Remarks × × × × × × × × × 8015MOD_Calc Analysis Requested State of Origin New Mexico Carrier Tracking No(s) Method of Shipment Date/Time Total Number of containers - | - X 144 , il 944). *j* COC No: 890-747 2 $\neg \square \square \square \square \square \square \nearrow$ Preservation Codes 890-2290-1 Page 2 of 3 Ice J DI Water C EDTA L EDA HCL NaOH Zn Acetate Nifric Acid NaHSO4 MeOH Amchlor Ascorbic Acid Special Instructions/Note Company M Hexane V None AsNaO2 AsNaO2 Na204S Na2503 Na2503 R Na25203 S H2SO4 H2SO4 MCAA other (specify) Months

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Environment Testing

Ver: 06/08/2021

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199	Chain of Custody Record	dy Record		eurofins Environment Testing America
Phone 575-988-3199 Fax 575-988-3199				
Client Information (Cith Contract Lab)	Sampler	Lab PM	Carrier Tracking No(s)	COC No.
Client Contact: (Sub Contract Lab)		Kramer Jessica		890-747 3
Shinning/Perguing	71018	E-Mail	State of Origin	Page [,]
Componitivecenting		Jessica Kramer@et.eurofinsus com	New Mexico	Page 3 of 3
Company		Accreditations Required (See note):		Job#.

	Sampler:			ah PM					,						
Client Information (Sub Contract Lab)				Kram	Kramer Jessica	S.			ς	190	Carrier Tracking No(s)		<u>m c</u>	890-747 3	
Client Contact: Shipping/Receiving	Phone			E-Mail	E-Mail	ar@at a		200	2 00	State of Origin	Š		, TI	Page:	
Company: Eurofins Environment Testing South Centr					Accreditations Required (See	ons Requir		note):	ŀ				, =	Job #.	
Address. 1211 W Florida Ave	Due Date Requested 5/12/2022	ed					<u> </u>	ajveje		Petod				Preservation Codes	des
City Midland	TAT Requested (days):	ays):			dillingi Prince Brissla				- ducoico		-	4	1		
State Zip TX 79701	1													C Zn Acetate D Nitric Acid E NaHSO4	O AsNaO2 P Na2O4S O Na2SO3
Phone 432-704-5440(Tel)	PO#:				rasequiqui seri 60a - Albari										
Email	WO#				arrena arrena arrena arrena arrena arrena arrena arrena arrena arrena arrena arrena arrena arrena arrena arrena	P1 Un							sandred an	H Ascorbic Acid I Ice J DI Water	T TSP Dodecahydrate U Acetone V MCAA
Project Name Kalser SWD	Project # 88001057				s or N	0_1 10							8 2 2 4 A	K EDTA	W pH 4-5 Z other (specify)
Site	SSOW#:				D (Ye								shah-shirt-so	Other	
			Sample	Matrix	IS/MS								ber o		
		Sample	-	(W=water S=solid, O=waste/oil.	form	6MOD_							al Nun		
Compte Meninication - Crieff ID (Lab ID)	Sample Date	X ime	G=grab) BT=Tissue, A=A Preservation Code:	_ JĒ	X PI	record.			1				То	Special In	pecial Instructions/Note
BH-110 (890-2290-19)	5/6/22	Mountain		Solid	×	×				O Common and			- \		
BH-111 (890-2290-20)	5/6/22	Mountain		Solid	×	×		-					4	The state of the s	
BH-112 (890-2290-21)	5/6/22	Mountain		Solid	×	×						1	4		
BH-113 (890-2290-22)	5/6/22	Mountain		Solid	×	×							4		
SW-34 (890-2290-23)	5/6/22	Mountain		Solid	×	×									
SW-35 (890-2290-24)	5/6/22	Mountain		Solid	×	×							4		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
SW-36 (890-2290-25)	5/6/22	Mountain		Solid	×	×							4		
SW-37 (890-2290-26)	5/6/22	Mountain		Solid	×	×					-		4		
Note Since laboratory accreditations are subject to change Eurofins Environment Testing South Central 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 Eurofine Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody if the	nt Testing South Centr	al LLC places i	the ownership of m	ethod analy	te & accrec	ditation cor	npliance u	pon out su	bcontract	laborator	es This	sample sh	ipment is	forwarded under cl	hain-of-custody If the
Possible Hazard Identification			-		Samp	le Dispo	sal (A	fee may	be ass	essed i	Samo	picance	ofainor	Sample Disposal (A fee may be assessed if samples are retained former than 1	than 1 month)
Unconfirmed Deliverable Requested V Other (specify)	Primary Deliverable Rank 2	ble Rank 2			Specis	Return To Client	To Clien	nt Dis	Dis	Disposal By Lab	/Lab		Archive For	e For	Months
Empty Kit Relinquished by:		Date									of Obio				
7	Date/Time:		Com	Company	Ra	Celveonby	1	1			Date		-		
Relinquished by (WO Corp 5.9.00	Date/Time		Com	pany	20 Z		E	K	ľ		Date/	M	12	2	Company
licentished by:	Date: I III id		Com	Company	π Φ	Received by	,	,			Date	Date/Time *			Company
1	Date/Time		Com	Company	₽ Q	Received by:					Date	Date/Time			Company
A Yes A No					င	Cooler Temperature(s)		°C and Other Remarks.	her Rema	rks.					

Login Sample Receipt Checklist

Client: Tetra Tech, Inc. Job Number: 890-2290-1

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 <6mm (1/4").	N/A	

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

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 <6mm (1/4").	True	

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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: 890-2290-2

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

MEAMER

Authorized for release by: 5/16/2022 4:19:36 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

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lotal Access

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www.eurofinsus.com/Env

Released to Imaging: 9/1/2023 3:25:35 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.

Laboratory Job ID: 890-2290-2

Project/Site: Kaiser SWD

SDG: Lea County NM

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Sample Summary	20
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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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Client: Tetra Tech, Inc.

Job ID: 890-2290-2

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW-34 Date Collected: 05/06/22 00:00

Date Received: 05/06/22 15:23 Sample Depth: 0 - 5 REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-2290-23

Matrix: Solid

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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	(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 Analyte	•	O) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	•		RL 49.9	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/11/22 10:27	Dil Fac
Analyte	Result 1520	Qualifier			<u>D</u>	Prepared		Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result 1520 ge Organics (Di	Qualifier			<u>D</u>	Prepared Prepared		1
Analyte Total TPH	Result 1520 ge Organics (Di	Qualifier RO) (GC) Qualifier	49.9	mg/Kg		<u> </u>	05/11/22 10:27	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Result 1520 ge Organics (DI Result	Qualifier RO) (GC) Qualifier	49.9	mg/Kg		Prepared	05/11/22 10:27 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte C6-C10 Diesel Range Organics (Over	Result 1520 ge Organics (Di Result 1100	Qualifier RO) (GC) Qualifier *1	49.9 RL 49.9	mg/Kg Unit mg/Kg		Prepared 05/09/22 16:33	05/11/22 10:27 Analyzed 05/10/22 20:10	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte C6-C10 Diesel Range Organics (Over C10-C28)	Result 1520 ge Organics (Di Result 1100 422	Qualifier RO) (GC) Qualifier *1	49.9 RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/09/22 16:33 05/09/22 16:33	05/11/22 10:27 Analyzed 05/10/22 20:10 05/10/22 20:10	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 1520 ge Organics (DI Result 1100 422 <49.9	Qualifier RO) (GC) Qualifier *1	49.9 RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/09/22 16:33 05/09/22 16:33	05/11/22 10:27 Analyzed 05/10/22 20:10 05/10/22 20:10 05/10/22 20:10	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result 1520	Qualifier RO) (GC) Qualifier *1	49.9 RL 49.9 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/09/22 16:33 05/09/22 16:33 05/09/22 16:33 Prepared	05/11/22 10:27 Analyzed 05/10/22 20:10 05/10/22 20:10 05/10/22 20:10 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane (Surr)	Result 1520	Qualifier RO) (GC) Qualifier *1	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/09/22 16:33 05/09/22 16:33 05/09/22 16:33 Prepared 05/09/22 16:33	Analyzed 05/10/22 20:10 05/10/22 20:10 05/10/22 20:10 Analyzed 05/10/22 20:10	Dil Face
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane (Surr) o-Terphenyl (Surr)	Result 1520	Qualifier RO) (GC) Qualifier *1	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/09/22 16:33 05/09/22 16:33 05/09/22 16:33 Prepared 05/09/22 16:33	Analyzed 05/10/22 20:10 05/10/22 20:10 05/10/22 20:10 Analyzed 05/10/22 20:10	Dil Fac

Client Sample ID: SW-35

Date Collected: 05/06/22 00:00 Date Received: 05/06/22 15:23 Sample Depth: 0 - 5 REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-2290-24

Matrix: Solid

Method: 8021B - Volatile Orga	nic Compounds	(GC)						
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
4-Bromofluorobenzene (Surr)	103		70 - 130			05/14/22 12:37	05/15/22 02:02	1
1,4-Difluorobenzene (Surr)	101		70 - 130			05/14/22 12:37	05/15/22 02:02	1

Job ID: 890-2290-2 Client: Tetra Tech, Inc. 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

Client Sample ID: SW-36

Date Collected: 05/06/22 00:00

Date Received: 05/06/22 15:23

Sample Depth: 0 - 5

Xylenes, Total

Total BTEX

Total TPH

Method: Total BTEX - Total BTEX Calculation

REMOVED FROM **ANALYSIS TABLE** Lab Sample ID: 890-2290-24

Matrix: Solid

Dil 5	5
Dil Fac	
Dil Fac	
1	8
Dil Fac	9
1	
1	
Dil Fac	
1	

Dil Fac

50

50

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	435		49.9	mg/Kg			05/11/22 10:27	1
- Method: 8015B NM - Diesel Rang	je Organics (Di	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<49.9	U *1	49.9	mg/Kg		05/09/22 16:33	05/10/22 20:32	1
Diesel Range Organics (Over	435		49.9	mg/Kg		05/09/22 16:33	05/10/22 20:32	1
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	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)			70 - 130			05/09/22 16:33	05/10/22 20:32	1
o-Terphenyl (Surr)	116		70 - 130			05/09/22 16:33	05/10/22 20:32	1
- Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1150		24.8	mg/Kg			05/12/22 13:46	5

RL

0.100

0.100

0.100

0.201

0.100

0.201

RL

RL

50.0

RL

50.0

0.201

Unit

mg/Kg

mg/Kg

D

Method: 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier <0.100 U Benzene Toluene <0.100 U

Ethylbenzene <0.100 U m-Xylene & p-Xylene <0.201 U o-Xylene <0.100 U

Limits Surrogate %Recovery Qualifier 4-Bromofluorobenzene (Surr) 99 70 - 130 1,4-Difluorobenzene (Surr) 97 70 - 130

Method: Total BTEX - Total BTEX Calculation Analyte Result Qualifier

Method: 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte Result Qualifier C6-C10 146

REMOVED FROM ANALYSIS TABLE

<0.201 U

<0.201

4280

Lab Sample ID: 890-2290-25

Matrix: Solid

Analyzed

05/15/22 03:46

05/15/22 03:46

mg/Kg 05/14/22 12:37 05/15/22 03:46 50 mg/Kg 05/14/22 12:37 05/15/22 03:46 50 mg/Kg 05/14/22 12:37 05/15/22 03:46 50 mg/Kg 05/14/22 12:37 05/15/22 03:46 50 Dil Fac Prepared Analyzed 05/14/22 12:37 05/15/22 03:46 50 05/14/22 12:37 05/15/22 03:46 50 Unit D Prepared Analyzed Dil Fac mg/Kg 05/16/22 16:56 Unit D Prepared Analyzed Dil Fac 05/11/22 10:27 mg/Kg Unit Prepared Dil Fac Analyzed mg/Kg 05/09/22 16:33 05/10/22 19:48

Prepared

05/14/22 12:37

05/14/22 12:37

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

Chloride

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
			70 400			05/09/22 16:33	05/10/22 19:48	1
o-Terphenyl (Surr)	126		70 - 130			05/09/22 10.33	03/10/22 19.40	,
o-Terphenyl (Surr) Method: 300.0 - Anions, Ion Chr		Soluble	70 - 130			05/09/22 16.33	03/10/22 19.40	1

25.0

mg/Kg

Lab Sample ID: 890-2290-26

05/12/22 13:55

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

REMOVED FROM ANALYSIS TABLE

Method: 8021B - Volatile Organic Compounds (GC)

Welliou. 602 IB - Volatile O	rganic Compounds (GC)						
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	Analvzed	Dil Fac

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 Calculation Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Total BTEX <0.100 U 0.100 mg/Kg 05/16/22 16:56

Method: 8015 NM - Diesel Range O	rganics (DRO) (GC)						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	346	50.0	mg/Kg			05/11/22 10:27	1

Total IPH	346	50.0	IIIg/Kg			03/11/22 10.27	'
Method: 8015B NM - Diesel Range	Organics (DRO) (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 20:53	1

Diesel Range Organics (Over	346	50.0	mg/Kg	05/09/22 16:33	05/10/22 20:53	1
C10-C28) Oll Range Organics (Over C28-C36)	<50.0 U	50.0	mg/Kg	05/09/22 16:33	05/10/22 20:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130	05/09/22 16:33	05/10/22 20:53	1
o-Terphenyl (Surr)	108		70 - 130	05/09/22 16:33	05/10/22 20:53	1

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5/16/2022

Client: Tetra Tech, Inc. Job ID: 890-2290-2 Project/Site: Kaiser SWD SDG: Lea County NM

RL

25.3

Unit

mg/Kg

D

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

Matrix: Solid

Dil Fac Prepared Analyzed

05/12/22 14:05

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)

Prep Type: Total/NA **Matrix: Solid**

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
b Sample ID	Client Sample ID	(70-130)	(70-130)	
80-14554-A-1-C MS	Matrix Spike	109	108	
80-14554-A-1-D MSD	Matrix Spike Duplicate	94	94	
0-2290-23	SW-34	108	106	
0-2290-24	SW-35	118	116	
0-2290-25	SW-36	124	126	
0-2290-26	SW-37	108	108	
S 880-25199/2-A	Lab Control Sample	123	124	
CSD 880-25199/3-A	Lab Control Sample Dup	129	132 S1+	
3 880-25199/1-A	Method Blank	99	103	

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

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

Matrix: Solid

Analysis Batch: 25561

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25564

	MB	MB						
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

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

Matrix: Solid

Analysis Batch: 25561

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25564

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1104	-	mg/Kg		110	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		mg/Kg		115	70 - 130	
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

	Client Sam	ple ID: Lab	Control Sam	ple Dup
--	------------	-------------	--------------------	---------

Prep Type: Total/NA

Prep Batch: 25564

RPD LCSD LCSD Spike %Rec Analyte Added Result Qualifier Unit %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 35 Ethylbenzene 0.100 0.1066 mg/Kg 107 70 - 130 35 8 0.200 m-Xylene & p-Xylene 0.2139 mg/Kg 107 70 - 130 35 0.100 0.1122 o-Xylene mg/Kg 112 70 - 130 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

Matrix: Solid

Analysis Batch: 25561

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25564

MS MS Sample Sample Spike Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits <0.00199 U 0.101 100 70 - 130 Benzene 0.1011 mg/Kg Toluene <0.00199 U 0.101 0.09136 mg/Kg 91 70 - 130

QC Sample Results

Job ID: 890-2290-2 Client: Tetra Tech, Inc. 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 **Matrix: Solid** Prep Type: Total/NA

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 Qualifie	er Limits
4-Bromofluorobenzene (Surr)	103	70 - 130
1,4-Difluorobenzene (Surr)	108	70 - 130

Lab Sample ID: 890-2290-A-10-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 25561

Prep Type: Total/NA

Prep Batch: 25564

Prep Batch: 25564

Sample Sample Spike MSD MSD RPD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits 0.100 Benzene <0.00199 U 0.08471 mg/Kg 85 70 - 130 18 35 82 Toluene <0.00199 U 0.100 0.08214 mg/Kg 70 - 130 11 35 Ethylbenzene <0.00199 U 0.100 0.08185 mg/Kg 82 70 - 130 9 35 0.200 0.1660 70 - 130 35 m-Xylene & p-Xylene <0.00398 U mg/Kg 83 8 0.100 <0.00199 U 0.07935 79 70 - 130 o-Xylene mg/Kg 10

MSD MSD

Surrogate	%Recovery Qualifie	r 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 **Matrix: Solid** Prep Type: Total/NA Prep Batch: 25199

Analysis Batch: 25231

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac C6-C10 50.0 <50.0 U mg/Kg 05/09/22 16:33 05/10/22 11:21 <50.0 U 50.0 05/09/22 16:33 05/10/22 11:21 Diesel Range Organics (Over mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 05/09/22 16:33 05/10/22 11:21

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 Analysis Batch: 25231

Spike

	Opike	LOG	LUU				/01 \C C	
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 Type: Total/NA

Prep Batch: 25199

Job ID: 890-2290-2

SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-25199/2-A

Matrix: Solid

Analysis Batch: 25231

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep 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

Matrix: Solid

Analysis Batch: 25231

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25199

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
C6-C10	1000	1077	*1	mg/Kg		108	70 - 130	23	20
Diesel Range Organics (Over	1000	1304		mg/Kg		130	70 - 130	6	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	129		70 - 130
o-Terphenyl (Surr)	132	S1+	70 - 130

Lab Sample ID: 880-14554-A-1-C MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 25231

Prep Type: Total/NA

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 C10-C28)	<50.0	U	1000	1112		mg/Kg		109	70 - 130	

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	109		70 - 130
o-Terphenyl (Surr)	108		70 - 130

Lab Sample ID: 880-14554-A-1-D MSD

Matrix: Solid

Analysis Batch: 25231

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 25199

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added RPD Limit Result Qualifier Unit %Rec Limits C6-C10 <50.0 U *1 998 90 70 - 130 20 899.1 mg/Kg 17 Diesel Range Organics (Over <50.0 U 998 969.3 mg/Kg 95 70 - 130 20 C10-C28)

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane (Surr) 94 70 - 130 o-Terphenyl (Surr) 94 70 - 130

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2290-2

SDG: Lea County NM

Prep Type: Soluble

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-25414/1-A

Lab Sample ID: LCS 880-25414/2-A

Matrix: Solid

Analysis Batch: 25429

MB MB

Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 05/12/22 11:56

Client Sample ID: Lab Control Sample

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Method Blank

Analysis Batch: 25429

Matrix: Solid

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 Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 25429

LCSD LCSD RPD Spike %Rec 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 Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

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

QC Association Summary

Client: Tetra Tech, Inc. Job ID: 890-2290-2 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 Bato
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

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

Eurofins Carlsbad

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Client: Tetra Tech, Inc. Job ID: 890-2290-2 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 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 02:02	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			10.03 g	10 mL	25199	05/09/22 16:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25231	05/10/22 20:32	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	25414	05/12/22 11:30	СН	XEN MID
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 **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		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 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

Eurofins Carlsbad

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

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	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	are included in this report, but	it the laboratory is not certific	ed by the governing authority. This list ma	av include analytes for
the agency does not of	• •	it the laboratory is not certain	ed by the governing authority. This list his	ay include analytes lo
0 ,	• •	Matrix	Analyte	ay illolude allalytes lol
the agency does not of	fer certification.	,	, , ,	ay include arialytes lo

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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

Eurofins Carlsbad

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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

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Permian Waster Solutions	Received by
Project #: 212C-MD-02230 Sampler Signature: Ezequiel Moreno Sampler Signature: Ezequie	September September Septem
# CONTAINERS Date: Time: Date: ## CONTAINERS Filtered (Y/N) PRESERVATIVE PRE	
# CONTAINERS # CONTAINERS # CONTAINERS FILTERED (Y/N) FILTER	# CONTAINERS # CONTAINERS # CONTAINERS # FILTERED (Y/N) # FILTERED (Y/N) # CONTAINERS # FILTERED (Y/N) # CONTAINERS # FILTERED (Y/N) # CONTAINERS # FILTERED (Y/N) # CONTAINERS # CONTAINER
TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Semi Volatiles	TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Semi Volatiles TCLP Semi Volatiles TCLP Semi Volatiles TCLP Semi Volatiles TCLP Semi Volatiles TCLP Semi Volatiles TCLP Semi Volatiles TCLP Semi Volatiles TCLP Semi Volatiles TCLP Semi Volatiles TCLP Semi Volatiles TCLP Semi Volatiles TCLP Semi Volatiles TCLP Semi Volatiles TCLP Semi Volatiles TCLP Semi Volatiles TCLP Semi Volatiles TCLP Semi Volatiles TCLP Semi Volatiles TCLP Volatiles TCLP Volatiles TCLP Volatiles TCLP Volatiles TCLP Volatiles TCLP Semi Volatiles TCLP
TCLP Semi Volatiles	TCLP Semi Volatiles
	## PLM (Asbestos) PLM (Asbestos) PLM (Asbestos)

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	Relinquished by:		Relinquished by:	17	Relinquished by											(LABUSE)	LAB #				Comments:	Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:	4	Analysis Reques
	Date: Time:		Date: Time:	5/6/22 1823	Date: Time:	BH-111 (5')	BH-110 (5')	BH-109 (5')	BH-108 (5')	BH-107 (5')	BH-106 (5')	BH-105 (5')	BH-104 (5')	BH-103 (5')	BH-102 (5')		SAMPLE IDENTIFICATION				Eurofins Xenco		Dusty McInturff - Permian Water Solutions	Lea County, New Mexico	Kaiser SWD	Permian Water Solutions	Tetra Tech, Inc.	Analysis Request of Chain of Custody Record
	Received by:		Received by:	((14)	Received by:	5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022	DATE	\dashv	YEAR: 2020	SAMPLING			Sampler Signature:		Project #:		Site Manager:		
	Date: Time:		/ Date: Time	N 5. (6.9)	Date: Time:	×	×	×	×	×	×	×	×	×	×	WAT SOIL HCL HNO ICE)3		MATRIX PRESERVATIVE		LECHARIC MICHOLOGIC	Ezeguiel Moreno		212C-MD-02230		Clair Gonzales	901W Wall Street, Ste 100 Midland, Texas 79705 Tel (432) 882-459 Fax (432) 882-3946	
(Circ				ט		×	×	×	×	×	×	×	×	×	×	# CO FILTE BTEX	ERE() (Y 21B	RS (N) BTI	EX 826	60B							
(Circle) HAND DELIVERED			Sample Temperature		Ш	×	×	×	×	×	×	×	×	×	×	TPH PAH Total TCLF	8015 8270 Meta Meta Met	oM (ols A als a	GRO Ag As Ag As	- DRO Ba Cd (Cr Pb	Se	Hg			ANA (Circle or		
FEDEX UPS	Special Report Lin	Rush Charges Authorized	RUSH: Same Day		REMARKS:											GC/M GC/M PCB'	AS Vo	ol. 8 emi. 82 /	608		625					ANALYSIS REQUEST		
Tracking #:	Special Report Limits or TRRP Report	ıthorized	ay 24 111 48 111 12		J	×	×	×	×	×	×	×	×	×	×	-	ride ride eral \	S	ulfate	emistry	_	atta	ached	list)		hod No.)		Page 20
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None		Relinquished by:		Relinquished by:	11-11	Relinquished by:									(LAB USE)	LAB#		Comments:		Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:	4	Analysis Reques
Sampler Signature:					77	Time:			SW-37 (0-5')	SW-36 (0-5')	SW-35 (0-5')	SW-34 (0-5')	BH-113 (5')	BH-112 (5')		SAMPLE IDENTIFICATION			Eurofins Xenco	Dusty McIntum - Permian vyaler Solutions		Lea County, New Mexico	Kaiser SWD	Permian Water Solutions	Tetra Tech, Inc.	Analysis Request of Chain of Custody Record
Clair Gonzales Clai		Received by:		Received by:	(1)(1)	Received by:			5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022	5/6/2022		YEAR: 2020	SAMPLING			╛		Project #:		Site Manager:		
# CONTAINERS # CONTAINERS					6)ate:									WATI SOIL HCL HNO	3	+		Ezequiei Moreno			212C-MD-02230		Clair Gonzales	901W Wall Street, Ste 100 Midland,Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946	
7 72 7	HAND DELIVERED FEDEX UPS	Special Report Limits or TRRP Report	Rush Charges Authorized	Sample Temperature	ONE - 24 to 40 to 72	LAB USE REMARKS			×	×	×	×	×	×	FILTE BTEX TPH TPH TOtal TCLP TCLP GC/M GC/M NORI PLM Chlor Gene	8021 TX100 8015N 82700 Metals Volati Semi Volati Semi (Asbeside ide eral W	(Y/N) B B BT 15 (Ext to 16 (GRC) G Ag As as Ag Ag As as Ag Ag As as Ag As Ag As as Ag As Ag As as Ag Ag As as Ag Ag As as Ag Ag A	EX 826(o C35) - DRO - Ba Cd C Ba Cd C 88 8/624 8270C/6	ORO or Pb \$	Se H	g dg	ist)		ANALYSIS REQUEST e or Specify Method		Page 3 of

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 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	
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	

Released to Imaging: 9/1/2023 3:25:35 PM

5/16/2022

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

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 <6mm (1/4").	True	

Eurofins Carlsbad

Page 25 of 25

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

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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

Qualifier Description

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GC Semi 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.

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HPLC/IC Qualifier

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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Glossary

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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"

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: 890-2515-1

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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Lab Sample ID: 890-2515-1

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	1
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 BTE	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
Analyte	Result	Qualifier	RL	MDI	Unit	D	Prepared		
				MDL	Oilit		riepaieu	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	WIDE	mg/Kg			07/13/22 09:51	
- -				MIDL					
Method: 8015B NM - Diesel Ran	ge Organics (D					<u></u>	Prepared		1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (D	RO) (GC) Qualifier	49.9		mg/Kg		<u> </u>	07/13/22 09:51	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier U F2	49.9		mg/Kg		Prepared	07/13/22 09:51 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 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
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 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
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 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 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 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
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 95 109	RO) (GC) Qualifier U F2 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
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 95 109 omatography -	RO) (GC) Qualifier U F2 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

Eurofins Carlsbad

Lab Sample ID: 890-2515-2

Matrix: Solid

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Lab Sample ID: 890-2515-2

Lab Sample ID: 890-2515-3

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW35 0-6

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 0 - 6

Method: 8021B - Volatile Organic Compounds	(GC) (Continued)
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Surrogate	%Recovery 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	כ	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg		_	07/15/22 08:13	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	<50.0 U	50.0	mg/Kg			07/13/22 09:51	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	<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

Surroyate	Mecovery Qualifier	Liliits		rrepareu	Allalyzeu	DII Fac
1-Chlorooctane	92	70 - 130	-	07/12/22 14:24	07/12/22 21:50	1
o-Terphenyl	106	70 - 130		07/12/22 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

Date Collected: 07/06/22 00:00

Date Received: 07/08/22 16:08 Sample Depth: 0 - 6

Mothod: 0024D	Valatila	Organia	Compoundo	(CC)

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

Mathad:	Total	RTFY -	Total R	TEY C	alculation

Analyte	Result	Qualifier	RL	MDL	Unit	I	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00403	U	0.00403		ma/Ka				07/15/22 08:13	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	<49.9 U	49.9	mg/Kg			07/13/22 09:51	1

Eurofins Carlsbad

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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

Method: 8015B NM - Diesel Rang	je 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	07/12/22 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	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	56.8		5.05		mg/Kg			07/14/22 04:27	1

Client Sample ID: SW37 0-6

Date Collected: 07/06/22 00:00

Lab Sample ID: 890-2515-4

Matrix: Solid

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	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
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 BTEX									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/15/22 08:13	1
Total BTEX [Method: 8015 NM - Diesel Range			0.00398		mg/Kg			07/15/22 08:13	1
ି Method: 8015 NM - Diesel Range	Organics (DR		0.00398 RL	MDL	mg/Kg Unit	D	Prepared	07/15/22 08:13 Analyzed	
- -	Organics (DR	O) (GC) Qualifier		MDL		<u>D</u>	Prepared		Dil Fac
Method: 8015 NM - Diesel Range Analyte	Organics (DR Result <49.9	O) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang	Organics (DR Result <49.9	O) (GC) Qualifier	RL		Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	Organics (DR Result <49.9	Qualifier U RO) (GC) Qualifier	RL 49.9		Unit mg/Kg			Analyzed 07/13/22 09:51	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	Ge Organics (DR) Result <49.9 Ge Organics (DR) Result <49.9	Qualifier U RO) (GC) Qualifier U	RL 49.9 RL 49.9		Unit mg/Kg Unit mg/Kg		Prepared 07/12/22 14:24	Analyzed 07/13/22 09:51 Analyzed 07/12/22 22:33	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	Organics (DR Result <49.9 ge Organics (DI Result	Qualifier U RO) (GC) Qualifier U	RL 		Unit mg/Kg		Prepared	Analyzed 07/13/22 09:51	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	Ge Organics (DR) Result <49.9 Ge Organics (DR) Result <49.9	Qualifier U RO) (GC) Qualifier U U U U	RL 49.9 RL 49.9		Unit mg/Kg Unit mg/Kg		Prepared 07/12/22 14:24	Analyzed 07/13/22 09:51 Analyzed 07/12/22 22:33	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)	Ge Organics (DR) Result 49.9 ge Organics (D) Result 49.9	Qualifier U RO) (GC) Qualifier U U U U	RL 49.9 49.9		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/12/22 14:24 07/12/22 14:24	Analyzed 07/13/22 09:51 Analyzed 07/12/22 22:33 07/12/22 22:33	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)	ge Organics (DR) Result <49.9 Georganics (Di) Result <49.9 <49.9	Qualifier U RO) (GC) Qualifier U U U U	RL 49.9 RL 49.9 49.9 49.9		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/12/22 14:24 07/12/22 14:24	Analyzed 07/13/22 09:51 Analyzed 07/12/22 22:33 07/12/22 22:33	Dil Fac Dil Fac 1 Dil Fac 1 Dil Fac 1

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Lab Sample ID: 890-2515-4

Job ID: 890-2515-1 SDG: Lea County NM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

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 Chromatography - 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 Lab Sample ID: 890-2515-5 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	
m-Xylene & p-Xylene	< 0.00396	U	0.00396		mg/Kg		07/14/22 09:52	07/15/22 18:18	
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:52	07/15/22 18:18	,
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/14/22 09:52	07/15/22 18:18	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	114		70 - 130				07/14/22 09:52	07/15/22 18:18	
1,4-Difluorobenzene (Surr)	113		70 - 130				07/14/22 09:52	07/15/22 18:18	
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00396	U	0.00396		mg/Kg			07/15/22 08:13	•
Method: 8015 NM - Diesel Range	•								
Analyte		Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			07/13/22 09:51	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		07/12/22 14:24	07/12/22 22:54	•
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/12/22 22:54	,
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/12/22 22:54	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	111		70 - 130				07/12/22 14:24	07/12/22 22:54	
o-Terphenyl	125		70 - 130				07/12/22 14:24	07/12/22 22:54	
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.0		4.95		mg/Kg			07/14/22 04:46	1

Lab Sample ID: 890-2515-6

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 Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:52	07/15/22 18:38	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:52	07/15/22 18:38	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:52	07/15/22 18:38	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/14/22 09:52	07/15/22 18:38	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/14/22 09:52	07/15/22 18:38	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/14/22 09:52	07/15/22 18:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				07/14/22 09:52	07/15/22 18:38	1
1,4-Difluorobenzene (Surr)	107		70 - 130				07/14/22 09:52	07/15/22 18:38	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			07/15/22 08:13	1
Made de 0045 NM - Diagraf Danser		0) (00)							
Method: 8015 NM - Diesel Range Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH				MIDL			Frepareu	Allalyzeu	DII Fac
			E0 0					07/12/22 00:51	
	<50.0	U	50.0		mg/Kg			07/13/22 09:51	1
Method: 8015B NM - Diesel Ran			50.0		mg/Kg			07/13/22 09:51	1
• •	ge Organics (D		50.0 RL	MDL		D	Prepared	07/13/22 09:51 Analyzed	1 Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier		MDL		<u>D</u>	Prepared 07/12/22 14:24		
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D Result	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 <50.0	RO) (GC) Qualifier U	RL	MDL	Unit mg/Kg	<u>D</u>	07/12/22 14:24	Analyzed 07/12/22 23:16	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 U	RL 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	07/12/22 14:24	Analyzed 07/12/22 23:16 07/12/22 23:16	
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 U	RL 50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	07/12/22 14:24 07/12/22 14:24 07/12/22 14:24	Analyzed 07/12/22 23:16 07/12/22 23:16 07/12/22 23:16	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 <50.0 <50.0 <50.0	RO) (GC) Qualifier U U		MDL	Unit mg/Kg mg/Kg	<u> </u>	07/12/22 14:24 07/12/22 14:24 07/12/22 14:24 Prepared	Analyzed 07/12/22 23:16 07/12/22 23:16 07/12/22 23:16 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 <80.0 89 103	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> </u>	07/12/22 14:24 07/12/22 14:24 07/12/22 14:24 Prepared 07/12/22 14:24	Analyzed 07/12/22 23:16 07/12/22 23:16 07/12/22 23:16 Analyzed 07/12/22 23:16	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 89 103 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>	07/12/22 14:24 07/12/22 14:24 07/12/22 14:24 Prepared 07/12/22 14:24	Analyzed 07/12/22 23:16 07/12/22 23:16 07/12/22 23:16 Analyzed 07/12/22 23:16	Dil Fac

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

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Matrix: Solid

Lab Sample ID: 890-2515-7

Analyzed

Client Sample Results

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 Ore	ranic Com	nounds (C	C	(Continued)	
WELLIOU. OUZ ID	- voiatile Org	Janiic Com	poulius (C	3C) ((Continueu)	

Surrogate	%Recovery Q	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	RTFX	- Total	RTFX	Calculation

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

Method: 8015 NM - Diesel Range (Method: 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac			

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	99.5	50.0	mg/Kg			07/13/22 09:51	1
Method: 8015B NM - Diesel Range	e Organics (DRO) (GC)						

RL

MDL Unit

Prepared

metrica. co red itm	Biccor range organico (Bito) (GG)
Analyte	Result Qualifier

Surrogato	% Pocovory	Qualifier	Limite		Propared	Analyzod	Dil Eac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	07/12/22 14:24	07/13/22 04:16	1
C10-C28)							
Diesel Range Organics (Over	99.5		50.0	mg/Kg	07/12/22 14:24	07/13/22 04:16	1
(GRO)-C6-C10							
Gasoline Range Organics	<50.0	U	50.0	mg/Kg	07/12/22 14:24	07/13/22 04:16	1

Surrogate	%Recovery G	Qualifier	Limits	Prepared	Analyzed	Dil 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
	DI4 O

Analyte	Result	Qualifier	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 Lab Sample ID: 890-2515-8

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 10

Method: 8021B - Volatile Organic Co	mnolinas ((=(.)

Michiga. 002 1D - Volatile Orga	inc compounds	(30)							
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

	_	
	Method: Total BTEX - Total BTEX Calculation	

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

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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Dil Fac

Matrix: Solid

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		0 115	D.			_			D.1 F
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
·									
Total BTEX	0.0597	<u> </u>	0.0403		mg/Kg			07/15/22 08:13	1
Total BTEX Method: 8015 NM - Diesel Range	Organics (DR		0.0403						·
Total BTEX Method: 8015 NM - Diesel Range Analyte	Organics (DR) Result	O) (GC) Qualifier	0.0403	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX Method: 8015 NM - Diesel Range	Organics (DR		0.0403	MDL		<u>D</u>	Prepared		Dil Fac
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH	Organics (DRO Result 196	Qualifier	0.0403	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang	Organics (DR Result 196 e Organics (D	Qualifier	0.0403		Unit	D	Prepared Prepared	Analyzed	Dil Fac
Total BTEX Method: 8015 NM - Diesel Range Analyte	Organics (DR Result 196 e Organics (D	Qualifier RO) (GC) Qualifier	0.0403 RL 49.9		Unit mg/Kg			Analyzed 07/13/22 09:51	Dil Fac
Total BTEX 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 196 e Organics (DI Result	Qualifier RO) (GC) Qualifier	0.0403 RL 49.9		Unit mg/Kg		Prepared	Analyzed 07/13/22 09:51	Dil Fac
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Organics (DR/Result 196 e Organics (DR/Result < 49.9	Qualifier RO) (GC) Qualifier U	0.0403 RL 49.9 RL 49.9		Unit mg/Kg Unit mg/Kg		Prepared 07/12/22 14:24	Analyzed 07/13/22 09:51 Analyzed 07/13/22 03:54	Dil Fac
Total BTEX Method: 8015 NM - Diesel Range 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)	Organics (DR/Result 196 e Organics (DR/Result < 49.9	Qualifier RO) (GC) Qualifier U	0.0403 RL 49.9 RL 49.9		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/12/22 14:24 07/12/22 14:24	Analyzed 07/13/22 09:51 Analyzed 07/13/22 03:54 07/13/22 03:54	Dil Fac Dil Fac 1 1 1
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Organics (DR/Result 196 e Organics (DR/Result <49.9 196 <49.9	Qualifier RO) (GC) Qualifier U	0.0403 RL 49.9 RL 49.9 49.9		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 07/12/22 14:24 07/12/22 14:24 07/12/22 14:24	Analyzed 07/13/22 09:51 Analyzed 07/13/22 03:54 07/13/22 03:54	Dil Fac Dil Fac 1

Lab Sample ID: 890-2515-9

Client Sample Results

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 Chrom	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.8		4.98		mg/Kg			07/14/22 08:28	1

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 Donth: 10

Method: 8021B - Volatile Organ Analyte	•	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 BT	EX 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 Ran	• • •	, ,	D.	MDI	11-4		Dunnand	A.v.alamad	D!! F
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 Ra	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		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 Ch	nromatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
• • • • • • • • • • • • • • • • • •									

Client Sample Results

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 BT	EX Calculation								
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 Rang	ge Organics (DR	O) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	4480		249		mg/Kg			07/13/22 09:51	
Method: 8015B NM - Diesel Ra	nge Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<249	U	249		mg/Kg		07/12/22 14:24	07/13/22 03:12	
(GRO)-C6-C10									
Diesel Range Organics (Over C10-C28)	3970		249		mg/Kg		07/12/22 14:24	07/13/22 03:12	Ę
Oll Range Organics (Over	507		249		mg/Kg		07/12/22 14:24	07/13/22 03:12	Ę
C28-C36)									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	90		70 - 130				07/12/22 14:24	07/13/22 03:12	
o-Terphenyl	94		70 - 130				07/12/22 14:24	07/13/22 03:12	
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble							
		_				_			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH-119 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: 890-2515-12

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Welliou. 002 ID - Volatile Organ	inc compounds (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
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:52	07/15/22 18:59	1

Client Sample Results

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

Total TPH

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 07/15/22 08:13 mg/Kg

Method: 8015 NM - Diesel Range Organics (DRO) (GC) Dil Fac Result Qualifier RL **MDL** Unit D Prepared Analyzed 5070 250 mg/Kg 07/13/22 09:51

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier MDL Unit D Analyte RLPrepared Analyzed Dil Fac <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) **Oll Range Organics (Over 578** 250 mg/Kg 07/12/22 14:24 07/13/22 03:33 C28-C36)

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 07/12/22 14:24 07/13/22 03:33 1-Chlorooctane 97 70 - 130 o-Terphenyl 100 70 - 130 07/12/22 14:24 07/13/22 03:33 5

Method: 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Analyte RL MDL Unit D Prepared Analyzed Dil Fac Chloride 25.1 07/14/22 09:14 3960 mg/Kg

Client Sample ID: BH-120 8 Date Collected: 07/06/22 00:00

Sample Depth: 8

REMOVED FROM ANALYSIS TABLE Date Received: 07/08/22 16:08

Lab Sample ID: 890-2515-13

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

ine compounds (
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00201	U F1 F2	0.00201		mg/Kg		07/14/22 09:57	07/15/22 01:35	1
<0.00201	U F1 F2	0.00201		mg/Kg		07/14/22 09:57	07/15/22 01:35	1
<0.00201	U F1 F2	0.00201		mg/Kg		07/14/22 09:57	07/15/22 01:35	1
<0.00402	U F1 F2	0.00402		mg/Kg		07/14/22 09:57	07/15/22 01:35	1
<0.00201	U F1 F2	0.00201		mg/Kg		07/14/22 09:57	07/15/22 01:35	1
<0.00402	U F1 F2	0.00402		mg/Kg		07/14/22 09:57	07/15/22 01:35	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
120		70 - 130				07/14/22 09:57	07/15/22 01:35	1
95		70 - 130				07/14/22 09:57	07/15/22 01:35	1
	Result <0.00201 <0.00201 <0.00201 <0.00201 <0.00402 <0.00201 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.00402 <0.	Result Qualifier	Result Qualifier RL <0.00201	Result Qualifier RL MDL <0.00201	Result Qualifier RL MDL Unit <0.00201	Result Qualifier RL MDL Unit D <0.00201	Result Qualifier RL MDL Unit D Prepared <0.00201	<0.00201 U F1 F2 0.00201 mg/Kg 07/14/22 09:57 07/15/22 01:35 <0.00201

Method: Total BTEX - Total BTEX (Calculation								
Analyte	Result	Qualifier	RL	MDL U	Jnit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	r	ng/Kg			07/15/22 08:13	1

REMOVED FROM

ANALYSIS TABLE

102

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-2515-1

SDG: Lea County NM

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

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 Prepared Analyzed Dil Fac <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 mg/Kg 07/12/22 14:24 07/12/22 23:37 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 Analyzed Dil Fac Surrogate 1-Chlorooctane 88 70 - 130 07/12/22 14:24 07/12/22 23:37

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 25.2 07/14/22 09:23 Chloride 1150 mg/Kg

70 - 130

Client Sample ID: BH-121 8 Date Collected: 07/06/22 00:00

Lab Sample ID: 890-2515-14

07/12/22 23:37

07/12/22 14:24

Date Received: 07/08/22 16:08

Matrix: Solid

Sample Depth: 8

o-Terphenyl

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 BTEX Analyte		Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
		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	Result <0.00402	U		MDL		<u>D</u>	Prepared		1
Analyte Total BTEX	Result <0.00402	U		MDL	mg/Kg	<u>D</u>	Prepared Prepared		
Analyte Total BTEX . Method: 8015 NM - Diesel Range	Result <0.00402	U O) (GC) Qualifier	0.00402		mg/Kg	=		07/15/22 08:13	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte	Result <0.00402	U O) (GC) Qualifier U	0.00402		mg/Kg	_ =		07/15/22 08:13 Analyzed	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH	Result <0.00402 	U O) (GC) Qualifier U	0.00402		mg/Kg Unit mg/Kg	_ =		07/15/22 08:13 Analyzed	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range	Result <0.00402 	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 Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	Result <0.00402 Organics (DR) Result <49.9 ge Organics (D) 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	1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2515-1

Lab Sample ID: 890-2515-14

SDG: Lea County NM

Client Sample ID: BH-121 8

Date Collected: 07/06/22 00:00 Da

Sai

ate Conected. 07/06/22 00:00	Matrix. Solid
ate Received: 07/08/22 16:08	
ample Depth: 8	

%Recovery Qualifier Limits Analyzed Dil Fac Surrogate Prepared 1-Chlorooctane 107 70 - 130 07/12/22 14:24 07/12/22 23:59 70 - 130 07/12/22 14:24 07/12/22 23:59 o-Terphenyl 118

Method: 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride 5280 101 07/14/22 18:25 20 mg/Kg

Client Sample ID: BH-122 8 Lab Sample ID: 890-2515-15 **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	<0.00202	U	0.00202		mg/Kg		07/14/22 09:57	07/15/22 02:27	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:57	07/15/22 02:27	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:57	07/15/22 02:27	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/14/22 09:57	07/15/22 02:27	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/14/22 09:57	07/15/22 02:27	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/14/22 09:57	07/15/22 02:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130				07/14/22 09:57	07/15/22 02:27	1
1,4-Difluorobenzene (Surr)	76		70 - 130				07/14/22 09:57	07/15/22 02:27	1
Method: Total BTEX - Total BT	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Method. Total DTEX - Total DTEX C	alculation							
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

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			07/13/22 09:51	1

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	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Di
1-Chlorooctane	108	- Caamiii	70 - 130				07/12/22 14:24	07/13/22 00:20	

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	1280	25.3	mg/Kg			07/14/22 18:34	5		

70 - 130

119

Eurofins Carlsbad

07/13/22 00:20

07/12/22 14:24

o-Terphenyl

Lab Sample ID: 890-2515-16

Client Sample Results

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	
Toluene	<0.00199	U	0.00199		mg/Kg		07/14/22 09:57	07/15/22 02:54	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		07/14/22 09:57	07/15/22 02:54	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/22 09:57	07/15/22 02:54	
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/14/22 09:57	07/15/22 02:54	•
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/22 09:57	07/15/22 02:54	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130				07/14/22 09:57	07/15/22 02:54	
1,4-Difluorobenzene (Surr)	80		70 - 130				07/14/22 09:57	07/15/22 02:54	
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			07/15/22 08:13	-
Analyte Total TPH	<49.9		RL 49.9	MDL	mg/Kg	<u>D</u>	Prepared	Analyzed 07/13/22 09:51	Dil Fa
Method: 8015B NM - Diesel Rang	•								
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/12/22 14:24	07/13/22 00:41	,
	-40.0	U	49.9		mg/Kg		07/12/22 14:24	07/13/22 00:41	
	<49.9								
C10-C28)	<49.9 <49.9	U	49.9		mg/Kg		07/12/22 14:24	07/13/22 00:41	
C10-C28) Oll Range Organics (Over C28-C36)					mg/Kg		07/12/22 14:24 Prepared	07/13/22 00:41 Analyzed	Dil Fa
C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.9		49.9		mg/Kg				Dil Fa
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.9 %Recovery		49.9		mg/Kg		Prepared	Analyzed	Dil Fa
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Chro	<49.9 **Recovery 89 103	Qualifier	49.9 <i>Limits</i> 70 - 130		mg/Kg		Prepared 07/12/22 14:24	Analyzed 07/13/22 00:41	ź
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<49.9 **Recovery 89 103 pmatography -	Qualifier	49.9 <i>Limits</i> 70 - 130	MDL		<u>D</u>	Prepared 07/12/22 14:24	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



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

Client Sample Results

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 REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-2515-17

Lab Sample ID: 890-2515-18

Matrix: Solid

Matrix: Solid

Sample Depth: 8

Method: 8021B - Volatile Organic Compound	s (GC) (Continued)
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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

Mathod:	Total RTFY	- Total BTEX	Calculation
mictilou.	TOTAL DIEN	- IUIUI DI LA	Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00397	U	0.00397	ma/Ka			07/15/22 08:13	1

	Discal Bango Organico (DBO) (CC)	
•		

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	ma/Ka			07/13/22 09:51	1

		_			
Method: 8015B	NM - Diesel	Range Org	ranics ('DROL	GC
motriou. ou rob	THE DIGGOI	itunge or	garnoo (D. (O)	(–

Analyte		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 01:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/13/22 01:24	1
Oll 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

Surrogate	%Recovery (Qualifier	Limits	Prepa	ared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	07/12/22	2 14:24	07/13/22 01:24	1
o-Terphenyl	107		70 - 130	07/12/22	2 14:24	07/13/22 01:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Q	ualifier 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

Date Collected: 07/06/22 00:00

Date Received: 07/08/22 16:08

Sample Depth: 8

11 (I I 0004D			. (00)
Method: 8021B -	Volatile Or	ganic Comr	ounds (GC)

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

Mathad:	Total	RTFY -	Total R	TEY C	alculation

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

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

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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-125 8

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

Lab Sample ID: 890-2515-18

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		07/12/22 14:24	07/13/22 01:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/12/22 14:24	07/13/22 01:46	1
Oll 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	matography -	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 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 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	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		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
			70 ₋ 130				07/12/22 14:24	07/13/22 02:07	

Client Sample ID: BH-126 8

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Result Qualifier

Job ID: 890-2515-1 SDG: Lea County NM

Lab Sample ID: 890-2515-19

Matrix: Solid

Date Collected: 07/07/22 00:00 Date Received: 07/08/22 16:08

Sample Depth: 8

١	Method: 300.0 - Anions, Ion Chrom	natography -	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

Analyte

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

Total BTEX	<0.00404	U	0.00404		mg/Kg			07/15/22 08:13	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/Kg			07/13/22 09:51	1

MDL Unit

Prepared

Analyzed

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 02:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/12/22 14:24	07/13/22 02:29	1
OII 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-Terphenyl	106		70 ₋ 130				07/12/22 14:24	07/13/22 02:29	1

Method: 300.0 - Anions, Ion Chrom	natography - S	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	472		25.0		mg/Kg			07/14/22 19:20	5

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Dil Fac

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 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
Total TPH	<49.9	U	49.9		mg/Kg			07/13/22 09:51	
- - 									
Method: 8015B NM - Diesel Rang	•		D.	MDI	11!4	_	Downson	A l	D!! F
Analyte		Qualifier U F1	RL 49.9	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	UFI	49.9		mg/Kg		07/12/22 15:30	07/13/22 11:31	1
Diesel Range Organics (Over	<49.9	U F1	49.9		mg/Kg		07/12/22 15:30	07/13/22 11:31	1
C10-C28)					0 0				
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	amatagraphy	Soluble							
Metriou. 300.0 - Ariions, ion Cint	0								
Analyte	0	Qualifier	RL	MDL	Unit mg/Kg	D	Prepared	Analyzed 07/14/22 07:28	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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Matrix: Solid

Lab Sample ID: 890-2515-22

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 Or	ganic Compounds	(GC) (Continued)
Michigal COLID Volume Of	gaine compounds	(GG) (GG) (GG)

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

Mathad:	Total	RTFY.	. Total	RTEY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	כ	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg		_	07/15/22 08:13	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	<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, I	ion Chi	romatogra	iphy -	Soluble

Analyte	Result Q	Qualifier	RL	MDL	Unit	D	1	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

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	<0.00199	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

Mothod:	Total RT	Y - Total I	RTEY Ca	lculation

Analyte	Result	Qualifier	RL	MDL	Unit	I	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	I	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: 890-2515-23

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

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		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)									
OII 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
Chloride	675		4.99		mg/Kg			07/14/22 08:00	1

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	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		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	04	70 ₋ 130				07/12/22 15:30	07/13/22 13:20	1

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 Date Received: 07/08/22 16:08

Sample Depth: 8

Lab Sample ID: 890-2515-24

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85.5		5.00		mg/Kg			07/14/22 08:07	1

Client Sample ID: BH-132 8

Date Collected: 07/06/22 00:00 Date Received: 07/08/22 16:08

Method: Total BTEX - Total BTEX Calculation

REMOVED FROM ANALYSIS TABLE

Result Qualifier

<0.00396 U

Lab Sample ID: 890-2515-25

Analyzed

07/15/22 08:13

Dil Fac

Matrix: Solid

Sample Depth: 8

Analyte

Total BTEX

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)	150	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

Method: 8015 NM - Diesel Range	e 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 Ran	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		07/12/22 15:30	07/13/22 13:41	1

0.00396

MDL Unit

mg/Kg

Prepared

(GRO)-C6-C10							
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg	07/12/22 15:30	07/13/22 13:41	1
C10-C28)							
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-Terphenyl	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 Sample Results

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 Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:57	07/15/22 08:49	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:57	07/15/22 08:49	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:57	07/15/22 08:49	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/14/22 09:57	07/15/22 08:49	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/14/22 09:57	07/15/22 08:49	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/14/22 09:57	07/15/22 08:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130				07/14/22 09:57	07/15/22 08:49	1
1,4-Difluorobenzene (Surr)	81		70 - 130				07/14/22 09:57	07/15/22 08:49	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
	<50.0		50.0		mg/Kg	_ =		07/13/22 09:51	1
Analyte Total TPH		Qualifier U		MDL		D	Prepared	Analyzed 07/13/22 09:51	Dil Fac
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte		Qualifier	D.		Unit	_	_		
	rtoouit	Qualifici	RL	MDL	UIIIL	D	Prepared	Analyzed	Dil Fac
5 5	<50.0		50.0	MDL	mg/Kg	D	Prepared 07/12/22 15:30	Analyzed 07/13/22 14:03	Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over		U		MDL		<u>D</u>	<u>·</u>		
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0	U	50.0	MDL	mg/Kg	<u>D</u>	07/12/22 15:30	07/13/22 14:03	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 <50.0	U U	50.0	MDL	mg/Kg	<u>D</u>	07/12/22 15:30 07/12/22 15:30	07/13/22 14:03 07/13/22 14:03	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0 <50.0 <50.0	U U	50.0 50.0 50.0	MDL	mg/Kg	<u>D</u>	07/12/22 15:30 07/12/22 15:30 07/12/22 15:30	07/13/22 14:03 07/13/22 14:03 07/13/22 14:03	1 1 1 Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 <50.0 <50.0 %Recovery	U U	50.0 50.0 50.0 <i>Limits</i>	MDL	mg/Kg	<u>D</u>	07/12/22 15:30 07/12/22 15:30 07/12/22 15:30 Prepared	07/13/22 14:03 07/13/22 14:03 07/13/22 14:03 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 <50.0 <50.0 %Recovery 86 101	U U U Qualifier	50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg		07/12/22 15:30 07/12/22 15:30 07/12/22 15:30 Prepared 07/12/22 15:30	07/13/22 14:03 07/13/22 14:03 07/13/22 14:03 Analyzed 07/13/22 14:03	1 1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 <50.0 <50.0 %Recovery 86 101 comatography -	U U U Qualifier	50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	D	07/12/22 15:30 07/12/22 15:30 07/12/22 15:30 Prepared 07/12/22 15:30	07/13/22 14:03 07/13/22 14:03 07/13/22 14:03 Analyzed 07/13/22 14:03	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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	1

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Lab Sample ID: 890-2515-27

Matrix: Solid

Lab Sample ID: 890-2515-27

Lab Sample ID: 890-2515-28

Matrix: Solid

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

Sample Depth: 8

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)	78	70 - 130	07/14/22 09:57	07/15/22 09:16	1

Method: Total	BTEX - Total	BTEX Calculati	on

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg		_	07/15/22 08:13	1

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 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
OII 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	Chromatograph	y - 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

Date Received: 07/08/22 16:08

Sample Depth: 8

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		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		mg/Kg			07/15/22 08:13	1

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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Matrix: Solid

Lab Sample ID: 890-2515-28

Client Sample Results

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 Lab Sample ID: 890-2515-29

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	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		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
o-Terphenyl	103		70 ₋ 130				07/12/22 15:30	07/13/22 15:07	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-136 8 Date Collected: 07/07/22 00:00

Lab Sample ID: 890-2515-29

Matrix: Solid

Sample Depth: 8

Date Received: 07/08/22 16:08

Method: 300.0 - Anions, Ion Chron	natography - S	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	490		4.98		mg/Kg			07/14/22 10:09	1

Lab Sample ID: 890-2515-30 Client Sample ID: BH-137 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 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	Unit	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		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: 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 BTE	X 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
Analyte		Qualifier	RL	MDL	Unit mg/Kg	D	Prepared	Analyzed 07/13/22 09:51	Dil Fac
Total TPH	55.9		50.0		mg/Kg				
								07/13/22 09:51	1
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)						07/13/22 09.51	1
		RO) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics		Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared 07/12/22 15:30		
Analyte Gasoline Range Organics	Result	Qualifier		MDL		<u>D</u>		Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result < 50.0	Qualifier U	50.0	MDL	mg/Kg	<u> </u>	07/12/22 15:30	Analyzed 07/13/22 16:11	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 55.9	Qualifier U	50.0	MDL	mg/Kg	<u>D</u>	07/12/22 15:30 07/12/22 15:30	Analyzed 07/13/22 16:11 07/13/22 16:11	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 55.9 <50.0	Qualifier U	50.0 50.0 50.0	MDL	mg/Kg	<u> </u>	07/12/22 15:30 07/12/22 15:30 07/12/22 15:30	Analyzed 07/13/22 16:11 07/13/22 16:11 07/13/22 16:11	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 55.9 <50.0 %Recovery	Qualifier U	50.0 50.0 50.0 Limits	MDL	mg/Kg	<u> </u>	07/12/22 15:30 07/12/22 15:30 07/12/22 15:30 Prepared	Analyzed 07/13/22 16:11 07/13/22 16:11 07/13/22 16:11 Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U Qualifier	50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg	<u>D</u>	07/12/22 15:30 07/12/22 15:30 07/12/22 15:30 Prepared 07/12/22 15:30	Analyzed 07/13/22 16:11 07/13/22 16:11 07/13/22 16:11 Analyzed 07/13/22 16:11	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	Result	Qualifier U Qualifier	50.0 50.0 50.0 Limits 70 - 130		mg/Kg	<u>D</u>	07/12/22 15:30 07/12/22 15:30 07/12/22 15:30 Prepared 07/12/22 15:30	Analyzed 07/13/22 16:11 07/13/22 16:11 07/13/22 16:11 Analyzed 07/13/22 16:11	Dil Face

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

Eurofins Carlsbad

Lab Sample ID: 890-2515-32

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Matrix: Solid

Lab Sample ID: 890-2515-32

Lab Sample ID: 890-2515-33

Matrix: Solid

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

Mathod:	Total RTFY	- Total BTEX	Calculation
mictilou.	TOTAL DIEN	- IUIUI DI LA	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

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

Method: 8015B NM - Diese	Range Organics	(DRO) (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		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
Oll 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 Qualifi	er 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, Ion	Chromatograph	y - Soluble

Analyte	Result Qualific		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

Method: 8021B -	Volatile Organic	c Compounds (GC)

moniour coziz		,							
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	1	mg/Kg		07/14/22 10:08	07/15/22 23:49	1
Ethylbenzene	<0.00199	U	0.00199	1	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	1	mg/Kg		07/14/22 10:08	07/15/22 23:49	1
Xylenes, Total	<0.00398	U	0.00398	1	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

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		_	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 U	nit	D	Prepared	Analyzed	Dil Fac
Total TPH			<49.8	U	49.8	m	g/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 Sample Results

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

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	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)									
Oll 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	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	970		4.97		mg/Kg			07/14/22 15:31	1

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	researce during attended by (Acceptance Limits)
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	
890-2515-2	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	91	
890-2515-14	BH-121 8	137 S1+	80	
890-2515-15 890-2515-16	BH-122 8 BH-123 8	135 S1+	76	
		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 77	
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 Surroga
		BFB1	DFBZ1	J
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-Bromofluorobe	nzene (Surr)			
DFBZ = 1,4-Difluorober	nzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

				Percent Surrogate Recovery (Acceptance Limits)
		1001	ОТРН1	recent during at recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-2515-1	SW34 0-6	95	109	
390-2515-1 MS	SW34 0-6	80	79	
890-2515-1 MSD	SW34 0-6	81	79	
390-2515-2	SW35 0-6	92	106	
390-2515-3	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	102	
390-2515-27	BH-134 8	86	101	
390-2515-28	BH-135 8	92	103	
390-2515-29	BH-136 8	92	103	
390-2515-29	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				

OTPH = o-Terphenyl

Eurofins Carlsbad

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Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-29669/5-A

Matrix: Solid

Analysis Batch: 29700

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29669

	MB	MB							
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	1
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	1
Xylenes, Total	<0.000800	U	0.000800		mg/Kg		07/13/22 13:52	07/14/22 11:30	,

мв мв

Surrogate	%Recovery Qu	alifier Limits
4-Bromofluorobenzene (Surr)	95	70 - 13
1,4-Difluorobenzene (Surr)	77	70 - 13

07/13/22 13:52 07/14/22 11:30 07/13/22 13:52 07/14/22 11:30

Prepared

Client Sample ID: Method Blank Prep Type: Total/NA

Analyzed

Prep Batch: 29722

Matrix: Solid Analysis Batch: 29790

Lab Sample ID: MB 880-29722/5-A

	MB	MB							
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 11:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:52	07/15/22 11:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:52	07/15/22 11:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/14/22 09:52	07/15/22 11:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 09:52	07/15/22 11:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/22 09:52	07/15/22 11:11	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepare	ed	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	07/14/22 0	9:52	07/15/22 11:11	1
1,4-Difluorobenzene (Surr)	108		70 - 130	07/14/22 0	9:52	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 Qualifier	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
	Dren Times Tetal/NA

Prep Type: Total/NA

Prep Batch: 29722

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09685		mg/Kg		97	70 - 130	10	35

Eurofins Carlsbad

1

Dil Fac

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2515-1 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
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
0.100	0.09023		mg/Kg		90	70 - 130	8	35
0.100	0.08012		mg/Kg		80	70 - 130	7	35
0.200	0.1601		mg/Kg		80	70 - 130	7	35
0.100	0.08531		mg/Kg		85	70 - 130	5	35
	Added 0.100 0.100 0.200	Added Result 0.100 0.09023 0.100 0.08012 0.200 0.1601	Added Result Qualifier 0.100 0.09023 0.100 0.08012 0.200 0.1601	Added Result Qualifier Unit 0.100 0.09023 mg/Kg 0.100 0.08012 mg/Kg 0.200 0.1601 mg/Kg	Added Result Qualifier Unit D 0.100 0.09023 mg/Kg 0.100 0.08012 mg/Kg 0.200 0.1601 mg/Kg	Added Result Qualifier Unit D %Rec 0.100 0.09023 mg/Kg 90 0.100 0.08012 mg/Kg 80 0.200 0.1601 mg/Kg 80	Added Result Qualifier Unit D %Rec Limits 0.100 0.09023 mg/Kg 90 70 - 130 0.100 0.08012 mg/Kg 80 70 - 130 0.200 0.1601 mg/Kg 80 70 - 130	Added Result Qualifier Unit D %Rec Limits RPD 0.100 0.09023 mg/Kg 90 70 - 130 8 0.100 0.08012 mg/Kg 80 70 - 130 7 0.200 0.1601 mg/Kg 80 70 - 130 7

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

Prep Type: Total/NA

Prep Batch: 29723

	IVID	IVID							
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 Qualifi	ier 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	Qualifier	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

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 880-29723/2-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 %Rec Limits **RPD** Limit D 0.200 0.2043 102 70 - 130 35 m-Xylene & p-Xylene mg/Kg 6 o-Xylene 0.100 0.1087 mg/Kg 109 70 - 130 35

LCSD LCSD %Recovery Qualifier Limits Surrogate S1+ 70 - 130 4-Bromofluorobenzene (Surr) 138 70 - 130 1,4-Difluorobenzene (Surr) 78

Lab Sample ID: 890-2515-13 MS Client Sample ID: BH-120 8

Matrix: Solid

Analysis Batch: 29700

Prep Type: Total/NA

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 84 70 - 130 mg/Kg Toluene <0.00201 UF1F2 0.100 0.08782 mg/Kg 88 70 - 130 0.08772 88 Ethylbenzene <0.00201 UF1F2 0.100 mg/Kg 70 - 130 m-Xylene & p-Xylene <0.00402 UF1F2 0.200 0.1196 F1 60 70 - 130 mg/Kg 0.100 o-Xylene <0.00201 UF1F2 0.09763 mg/Kg 70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130
1,4-Difluorobenzene (Surr)	78		70 - 130

Lab Sample ID: 890-2515-13 MSD Client Sample ID: BH-120 8

Matrix: Solid

Analysis Batch: 29700

Prep Type: Total/NA Prep Batch: 29723

MSD MSD Spike RPD Sample Sample %Rec Limits Analyte Result Qualifier Added Result Qualifier Unit %Rec RPD Limit Benzene < 0.00201 U F1 F2 0.0994 0.05294 F1 F2 53 46 35 mg/Kg 70 - 130Toluene <0.00201 UF1F2 0.0994 0.03890 F1 F2 mg/Kg 39 70 - 130 77 35 Ethylbenzene <0.00201 UF1F2 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 35

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	112	70 - 130
1,4-Difluorobenzene (Surr)	91	70 - 130

Lab Sample ID: MB 880-29739/5-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 29790

Prep Type: Total/NA

Prep Batch: 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
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 10:08	07/15/22 23:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/14/22 10:08	07/15/22 23:27	1

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

	MB	MB				
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

Prep Batch: 29739

	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

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	97	70 - 130
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

Surrogate	%Recovery Qualifi	ier Limits
4-Bromofluorobenzene (Surr)	102	70 - 130
1 4-Diffuorobenzene (Surr)	96	70 130

Lab Sample ID: 890-2515-33 MS

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Matrix: Solid

Analysis Batch: 29790

Client Sample ID: BH-140 8

Prep Type: Total/NA

Prep Batch: 29739

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	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

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: 890-2515-33 MSD

Matrix: Solid

Analysis Batch: 29790

Client Sample ID: BH-140 8 Prep Type: Total/NA

Prep Batch: 29739

ı		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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
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	
m-Xylene & p-Xylene	<0.000800	U	0.000800		mg/Kg		07/18/22 15:14	07/19/22 11:53	
o-Xylene	<0.000400	U	0.000400		mg/Kg		07/18/22 15:14	07/19/22 11:53	
Xylenes, Total	<0.00800	U	0.000800		mg/Kg		07/18/22 15:14	07/19/22 11:53	

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

	Spike	LUS	LUS				70KeC	
Analyte	Added	Result	Qualifier	Unit	D	%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	
m-Xylene & p-Xylene	0.200	0.2162		mg/Kg		108	70 - 130	
o-Xylene	0.100	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

	Sį	oike LC	SD LCSD)			%Rec		RPD
Analyte	Ad	ded Re	sult Qualit	fier Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.	100 0.1	75	mg/Kg		108	70 - 130	6	35
Toluene	0.	100 0.1	084	mg/Kg		108	70 - 130	6	35

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

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 %Rec Limits **RPD** Limit D Ethylbenzene 0.100 0.1173 117 70 - 130 35 mg/Kg 6 m-Xylene & p-Xylene 0.200 0.2293 mg/Kg 115 70 - 130 6 35 0.100 o-Xylene 0.1192 70 - 130 mg/Kg 119

LCSD LCSD

Surrogate	%Recovery Qu	alifier Limits
4-Bromofluorobenzene (Surr)	127	70 - 130
1,4-Difluorobenzene (Surr)	92	70 - 130

Lab Sample ID: 880-17011-A-1-D MS

Matrix: Solid

Analysis Batch: 30016

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 29987

Sample Sample Spike MS MS %Rec Result Qualifier Result Qualifier Analyte Added Unit %Rec Limits 0.0998 Benzene <0.00200 U F1 0.05315 F1 mg/Kg 53 70 - 130 Toluene <0.00200 U F1 0.0998 0.05812 F1 mg/Kg 58 70 - 130 Ethylbenzene <0.00200 U F1 0.0998 0.06366 F1 64 70 - 130 mg/Kg 0.200 70 - 130 m-Xylene & p-Xylene < 0.00399 UF1 0.1212 F1 mg/Kg 61 0.0998 <0.00200 U F1 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 RPD %Rec Result Qualifier Limit Added Result Qualifier Limits RPD Analyte Unit D %Rec 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 UF1 0.100 0.04664 F1 mg/Kg 47 70 - 130 31 35 m-Xylene & p-Xylene < 0.00399 UF1 0.200 0.08957 F1 mg/Kg 45 70 - 130 30 35 <0.00200 UF1 0.100 0.05185 F1 52 70 - 130 28 o-Xylene mg/Kg 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

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 29557

Matrix: Solid Analysis Batch: 29499 MR MR

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	07/12/22 19:42	1
(GRO)-C6-C10 Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		07/12/22 14:24	07/12/22 19:42	1
C10-C28)								

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: ME	3 880-29557/1-A
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Lab Sample ID: LCS 880-29557/2-A

Matrix: Solid

Analysis Batch: 29499

	Client	Sample	ID:	Method	В	lank
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Prep Type: Total/NA

Prep Batch: 29557

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII 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

MB MB

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

Matrix: Solid

Analysis Batch: 29499

Prep Type: Total/NA
Prep Batch: 29557

Spike LCS LCS Added Analyte Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 841.3 mg/Kg 84 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 860.2 mg/Kg 70 - 130 86

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	107		70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 29499

Lab Sample ID: LCSD 880-29557/3-A

Prep Type: Total/NA Prep Batch: 29557

Prep Batch: 29557

	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)									

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 101
 70 - 130

 o-Terphenyl
 110
 70 - 130

Lab Sample ID: 890-2515-1 MS

Matrix: Solid

Analysis Batch: 29499

Client Sample ID: SW34 0-6

Prep Type: Total/NA

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	
C10_C28\										

C10-C28)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	80		70 - 130
o-Terphenyl	79		70 - 130

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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: 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 860.6 mg/Kg 86 70 - 130 <49.9 U

C10-C28)

MSD MSD

%Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 81 o-Terphenyl 79 70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 29563

Lab Sample ID: MB 880-29563/1-A

Matrix: Solid

Analysis Batch: 29603

мв мв MDL Unit Analyte Result Qualifier RL Prepared Analyzed Dil Fac 50.0 07/12/22 15:30 07/13/22 10:27 Gasoline Range Organics <50.0 U mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 07/12/22 15:30 07/13/22 10:27 OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 07/12/22 15:30 07/13/22 10:27

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

Matrix: Solid

Analysis Batch: 29603

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 29563

	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)							

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	112		70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Lab Sample ID: LCSD 880-29563/3-A

Released to Imaging: 9/1/2023 3:25:35 PM

Analysis Batch: 29603

Prep Type: Total/NA Prep Batch: 29563

	Spike	LCSD	LCSD LCSD			%Rec			RPD	נ
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)										

o-Terphenyl

C10-C28)

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)

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Lab Sample ID: LCSD 880-29563/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA Analysis Batch: 29603 Prep Batch: 29563

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	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	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	996	<49.8	U F1	mg/Kg		0	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U F1	996	<49.8	U F1	mg/Kg		0	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane			70 - 130							

Lab Sample ID: 890-2515-21 MSD Client Sample ID: BH-128 8 **Matrix: Solid** Prep Type: Total/NA

70 - 130

Analysis Batch: 29603 Prep Batch: 29563

Sample Sample Spike MSD MSD %Rec Analyte Added Result Qualifier 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

MSD MSD %Recovery Qualifier Surrogate Limits

70 - 130 1-Chlorooctane 80 o-Terphenyl 93 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-29402/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 29640

мв мв Dil Fac Analyte Result Qualifier RL MDL Unit D Prepared Analyzed 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**

Matrix: Solid Prep Type: Soluble Analysis Batch: 29640

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit Limits Chloride 258.0 250 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 **Prep Type: Soluble**

Matrix: Solid

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 **Prep Type: Soluble**

Matrix: Solid

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 **Prep Type: Soluble**

Matrix: Solid

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

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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Prep Type: Soluble

7/20/2022

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

Matrix: Solid Prep Type: Soluble 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 Batch
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

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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

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Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD 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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7/20/2022

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	

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	BH-122 8	Total/NA	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 Batc
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

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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

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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)

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	_
390-2515-2	SW35 0-6	Soluble	Solid	DI Leach	
390-2515-3	SW36 0-6	Soluble	Solid	DI Leach	
390-2515-4	SW37 0-6	Soluble	Solid	DI Leach	
390-2515-5	BH-106 6	Soluble	Solid	DI Leach	
390-2515-6	BH-108 6	Soluble	Solid	DI Leach	
390-2515-7	BH-114 10	Soluble	Solid	DI Leach	
390-2515-8	BH-115 10	Soluble	Solid	DI Leach	
390-2515-9	BH-116 10	Soluble	Solid	DI Leach	
390-2515-10	BH-117 10	Soluble	Solid	DI Leach	
390-2515-11	BH-118 10	Soluble	Solid	DI Leach	
390-2515-12	BH-119 8	Soluble	Solid	DI Leach	
90-2515-13	BH-120 8	Soluble	Solid	DI Leach	
390-2515-14	BH-121 8	Soluble	Solid	DI Leach	
390-2515-15	BH-122 8	Soluble	Solid	DI Leach	
390-2515-16	BH-123 8	Soluble	Solid	DI Leach	
390-2515-17	BH-124 8	Soluble	Solid	DI Leach	
390-2515-18	BH-125 8	Soluble	Solid	DI Leach	
390-2515-19	BH-126 8	Soluble	Solid	DI Leach	
390-2515-20	BH-127 8	Soluble	Solid	DI Leach	
MB 880-29402/1-A	Method Blank	Soluble	Solid	DI Leach	
CS 880-29402/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
.CSD 880-29402/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2515-1 MS	SW34 0-6	Soluble	Solid	DI Leach	
390-2515-1 MSD	SW34 0-6	Soluble	Solid	DI Leach	
390-2515-11 MS	BH-118 10	Soluble	Solid	DI Leach	
390-2515-11 MSD	BH-118 10	Soluble	Solid	DI Leach	

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7/20/20

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
890-2515-10	BH-117 10	Soluble	Solid	300.0	29402
890-2515-11	BH-118 10	Soluble	Solid	300.0	29402
890-2515-12	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

Job ID: 890-2515-1 SDG: Lea County NM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Lab Sample ID: 890-2515-1

Matrix: Solid

Client Sample ID: SW34 0-6 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			5.03 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 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			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

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			4.96 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

Page 56 of 75

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2515-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: SW37 0-6

Lab Sample ID: 890-2515-4

Parts Calledted 97/98/99 99:99

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	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

Matrix: Solid

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			5.05 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 18:18	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			10.01 g	10 mL	29557	07/12/22 14:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29499	07/12/22 22:54	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 04:46	CH	XEN MID

Client Sample ID: BH-108 6

Date Collected: 07/06/22 00:00

Lab Sample ID: 890-2515-6

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			5.04 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 18:38	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	07/12/22 23:16	SM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		1			29640	07/14/22 08:00	CH	XEN MID

Client Sample ID: BH-114 10 Lab Sample ID: 890-2515-7

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

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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-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	Type	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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
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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Job ID: 890-2515-1 SDG: Lea County NM

Client: Tetra Tech, Inc.
Project/Site: Kaiser SWD

Lab Sample ID: 890-2515-11

Client Sample ID: BH-118 10 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			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

Lab Sample ID: 890-2515-12

07/14/22 08:46 CH

29640

Client Sample ID: BH-119 8 Date Collected: 07/06/22 00:00

Analysis

300.0

Soluble

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Date Received: 07/08/22 16:08

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			5.00 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 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	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

Date Collected: 07/06/22 00:00

Lab Sample ID: 890-2515-14

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			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 BTFX		1			29793	07/15/22 08:13	A.I	XEN MID

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Released to Imaging: 9/1/2023 3:25:35 PM

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

	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

Date Collected: 07/06/22 00:00

Lab Sample ID: 890-2515-15

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			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

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Matrix: Solid

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Job ID: 890-2515-1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

SDG: Lea County NM

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

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	29402	07/11/22 09:13	KS	XEN MID
Soluble	Analysis	300.0		1			29640	07/14/22 18:52	CH	XEN MID

Lab Sample ID: 890-2515-18

Client Sample ID: BH-125 8 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 5035 5.01 g 29723 07/14/22 09:57 EL XEN MID Prep 5 mL Total/NA 8021B 29700 07/15/22 03:46 MR XEN MID Analysis 1 Total/NA Total BTEX 29793 07/15/22 08:13 XEN MID Analysis 1 AJ Total/NA Analysis 8015 NM 29634 07/13/22 09:51 SM XEN MID 29557 XEN MID Total/NA Prep 8015NM Prep 10.00 g 10 mL 07/12/22 14:24 DM 8015B NM Total/NA Analysis 29499 07/13/22 01:46 SM XEN MID 50 mL Soluble DI Leach 5.01 g 29402 07/11/22 09:13 KS XEN MID Leach Analysis 300.0 5 29640 07/14/22 19:02 CH XEN MID Soluble

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 MID
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 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			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

Job ID: 890-2515-1 Client: Tetra Tech, Inc. 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

Lab Sample ID: 890-2515-21

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			4.99 g	5 mL	29723	07/14/22 09:57	EL	XEN MID
Total/NA	Analysis	8021B		1			29700	07/15/22 05:05	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	29563	07/12/22 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29603	07/13/22 11:31	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	29401	07/11/22 09:10	KS	XEN MID
Soluble	Analysis	300.0		1			29646	07/14/22 07:28	CH	XEN MID

Client Sample ID: BH-129 8 Lab Sample ID: 890-2515-22 Date Collected: 07/07/22 00:00

Date Received: 07/08/22 16:08

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 29723 Total/NA 4.98 g 07/14/22 09:57 EL XEN MID 5 mL Total/NA 8021B 29700 07/15/22 05:32 XEN MID Analysis 1 MR Total/NA Total BTEX 29793 07/15/22 08:13 XEN MID Analysis 1 A.I Total/NA Analysis 8015 NM 29634 07/13/22 09:51 SM XEN MID Total/NA 29563 XEN MID Prep 8015NM Prep 10.01 g 07/12/22 15:30 DM 10 mL Total/NA Analysis 8015B NM 29603 07/13/22 12:36 AJ XEN MID 07/11/22 09:10 Soluble KS XEN MID Leach DI Leach 5.05 g 50 mL 29401 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 MID
Soluble	Analysis	300.0		1			29646	07/14/22 08:00	CH	XEN MID

Lab Sample ID: 890-2515-24 Client Sample ID: BH-131 8 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 07:45	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			29793	07/15/22 08:13	AJ	XEN MID

Eurofins Carlsbad

Page 62 of 75

Client: Tetra Tech, Inc. Job ID: 890-2515-1 Project/Site: Kaiser SWD SDG: Lea County NM

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

	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

Client Sample ID: BH-132 8 Lab Sample ID: 890-2515-25 **Matrix: Solid**

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			5.05 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		
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 08:49	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			10.00 g	10 mL	29563	07/12/22 15:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			29603	07/13/22 14:03	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		1			29646	07/14/22 08:39	CH	XEN MID

Lab Sample ID: 890-2515-27 Client Sample ID: BH-134 8

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			4.96 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 Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g	10 mL	29563 29603	07/12/22 15:30 07/13/22 14:24	DM AJ	XEN MID XEN MID

Eurofins Carlsbad

Matrix: Solid

Job ID: 890-2515-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-134 8

Date Received: 07/08/22 16:08

Lab Sample ID: 890-2515-27 Date Collected: 07/07/22 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	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

Matrix: Solid

XEN MID

Matrix: Solid

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 5035 5.01 g 29723 EL XEN MID Prep 5 mL 07/14/22 09:57 8021B Total/NA MR Analysis 1 29700 07/15/22 09:42 XEN MID Total/NA Total BTEX 29793 Analysis 07/15/22 08:13 AJ XEN MID 1 29634 Total/NA Analysis 8015 NM 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 29603 07/13/22 14:45 AJ XEN MID Soluble DI Leach 50 mL 29401 07/11/22 09:10 KS XEN MID Leach 5.03 g

Lab Sample ID: 890-2515-29 Client Sample ID: BH-136 8

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Date Collected: 07/07/22 00:00 **Matrix: Solid**

29646

07/14/22 10:01

Date Received: 07/08/22 16:08

Soluble

300.0

Analysis

CH

Dil Batch Batch Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 5.00 g 5 mL 29723 07/14/22 09:57 EL XEN MID Total/NA 8021B 07/15/22 10:08 Analysis 1 29700 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 29563 07/12/22 15:30 DM **XEN MID** 10 mL Total/NA Analysis 8015B NM 1 29603 07/13/22 15:07 ΑJ 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	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 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

Job ID: 890-2515-1 Client: Tetra Tech, Inc. 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

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 Total/NA Prep 4.99 g 5 mL 29723 07/14/22 09:57 EL XEN MID 8021B Total/NA Analysis 1 29700 07/15/22 11:01 MR XEN MID Total/NA Analysis Total BTEX 29793 07/15/22 08:13 ΑJ XEN MID 1 Total/NA 8015 NM 29634 XEN MID Analysis 1 07/13/22 09:51 SM Total/NA 8015NM Prep 29563 07/12/22 15:30 XEN MID Prep 10.00 g 10 mL DM Total/NA Analysis 8015B NM 29603 07/13/22 16:11 AJ XEN MID Soluble DI Leach 5.01 g 50 mL 29401 07/11/22 09:10 KS XEN MID Leach Soluble Analysis 300.0 29646 07/14/22 10:25 CH XEN MID

Client Sample ID: BH-139 8

Date Collected: 07/07/22 00:00

Date Received: 07/08/22 16:08

Lab Sample ID: 890-2515-32

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	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

Date Collected: 07/06/22 00:00

Date Received: 07/08/22 16:08

Lab Sample ID: 890-2515-33

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	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

Date Collected: 07/07/22 00:00

Date Received: 07/08/22 16:08

Released to Imaging: 9/1/2023 3:25:35 PM

Lab Sample ID: 890-2	515-34
Matri	ix: 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	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

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	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-24	06-30-23
The following analytes	are included in this report hi	it the laboratory is not certific	ed by the governing authority. This list ma	v include analytes for y
the agency does not of	' '	it the laboratory is not certify	ed by the governing additionty. This list his	ay illolude allalytes for v
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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

Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD 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
890-2515-30	BH-137 8	Solid	07/07/22 00:00	07/08/22 16:08	8
890-2515-31	BH-138 8	Solid	07/07/22 00:00	07/08/22 16:08	8
890-2515-32	BH-139 8	Solid	07/07/22 00:00	07/08/22 16:08	8
890-2515-33	BH-140 8	Solid	07/06/22 00:00	07/08/22 16:08	8

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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	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-2515-1 SDG Number: Lea County NM

List Source: Eurofins Midland

List Creation: 07/12/22 11:11 AM

Creator: Rodriguez, Leticia

Login Number: 2515

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	

Released to Imaging: 9/1/2023 3:25:35 PM

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<6mm (1/4").

Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 9/1/2023 3:25:35 PM

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

F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

Qualifier Description

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)

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: 890-2553-1

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 Sample Results

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
Analyte Total TPH		Qualifier U		MDL	mg/Kg	D	Prepared	Analyzed 07/18/22 09:27	Dil Fac
Total TPH									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		07/15/22 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
					mg/Kg		07/15/22 08:42	07/15/22 11:12	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/rxg		07/13/22 00.42	07/15/22 11:12	'
Oll Range Organics (Over C28-C36)	<50.0		50.0 Limits		mg/Kg		Prepared	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
Oll Range Organics (Over C28-C36) Surrogate		Qualifier	Limits 70 - 130		mg/kg		Prepared 07/15/22 08:42	Analyzed 07/15/22 11:12	Dil Fac
Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 81 88 omatography -	Qualifier	Limits 70 - 130	MDL		D	Prepared 07/15/22 08:42	Analyzed 07/15/22 11:12	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

Eurofins Carlsbad

Lab Sample ID: 890-2553-2

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 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)	98	70 - 130	07/14/22 16:53	07/18/22 12:48	1

Method: Total	BTEX - Total	BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399		mg/Kg	 	_	07/19/22 09:14	1

-				
	Method: 8015 NM - Diesel	Danes Oreanias		
	- wethod: outs nw - Diesei	Range Organics	(DRO) (5 61

Analyte	Result Quali	fier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	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 12:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/15/22 08:42	07/15/22 12:16	1
Oll 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	Analyzed	Dil Fac
1-Chlorooctane	99	70 - 130	07/15/22 08:42	07/15/22 12:16	1
o-Terphenyl	104	70 - 130	07/15/22 08:42	07/15/22 12:16	1

Method: 300	.0 - Anions, Ion	Chromatograph	y - Soluble

Analyte	Result Qualif		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'

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	 D	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 Sample Results

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 (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 14:02	1
Diesel Range Organics (Over C10-C28)	226		50.0		mg/Kg		07/15/22 08:42	07/15/22 14:02	1
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
-	omatography -	Soluble							
Method: 300.0 - Anions, Ion Chro	omatograpmy -								
Method: 300.0 - Anions, Ion Chro Analyte	0.,	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)							
Method: 8015 NM - Diesel Range Analyte		O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
_		Qualifier		MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 07/18/22 09:27	Dil Fac
Analyte	Result <50.0	Qualifier U		MDL		<u>D</u>	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <50.0 e Organics (D	Qualifier U		MDL	mg/Kg	<u>D</u>	Prepared Prepared		1
Analyte Total TPH	Result <50.0 e Organics (D	Qualifier U RO) (GC) Qualifier	50.0		mg/Kg			07/18/22 09:27	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	e Organics (D	Qualifier U RO) (GC) Qualifier U	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 <50.0 e Organics (D) Result <50.0	Qualifier U 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 12:37	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 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 12:37 07/15/22 12:37	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 <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 07/15/22 08:42 07/15/22 08:42 07/15/22 08:42	07/18/22 09:27 Analyzed 07/15/22 12:37 07/15/22 12:37	Dil Fac

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2553-1

SDG: Lea County NM

Client Sample ID: BH-145 5'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 5'

Lab Sample ID: 890-2553-4

Matrix: Solid

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 Matrix: Solid

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Method: Total BTEX - Total BTEX Calculation

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 13:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 13:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 13:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/14/22 16:53	07/18/22 13:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 13:51	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/14/22 16:53	07/18/22 13:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				07/14/22 16:53	07/18/22 13:51	1
1,4-Difluorobenzene (Surr)	111		70 - 130				07/14/22 16:53	07/18/22 13:51	1

	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
l	Total BTEX	<0.00399	U	0.00399		mg/Kg			07/19/22 09:14	1
ſ	_ Method: 8015 NM - Diesel Range O	rganics (DRO	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 Range	Organics (DRO) (GC)						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac

(GRO)-C6-C10 Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg	07/15/22 08:42	07/15/22 12:58	1
C10-C28) OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	07/15/22 08:42	07/15/22 12:58	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130		07/15/22 08:42	07/15/22 12:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	- 1	Prepared	Analyzed	Dil Fac
Chloride	751		4.96		mg/Kg				07/16/22 22:10	1

70 - 130

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07/15/22 08:42 07/15/22 12:58

o-Terphenyl

Lab Sample ID: 890-2553-6

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2553-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-147 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	<0.00199	U	0.00199		mg/Kg		07/14/22 16:53	07/18/22 14:11	1
Toluene	< 0.00199	U	0.00199		mg/Kg		07/14/22 16:53	07/18/22 14:11	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		07/14/22 16:53	07/18/22 14:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/14/22 16:53	07/18/22 14:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/14/22 16:53	07/18/22 14:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/14/22 16:53	07/18/22 14:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				07/14/22 16:53	07/18/22 14:11	1
1,4-Difluorobenzene (Surr)	110		70 - 130				07/14/22 16:53	07/18/22 14:11	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			07/19/22 09:14	1
Method: 8015 NM - Diesel Rang	je Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	537		50.0		mg/Kg			07/18/22 09:27	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	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 15:52	1
Diesel Range Organics (Over C10-C28)	478		50.0		mg/Kg		07/15/22 08:42	07/15/22 15:52	1
Oll Range Organics (Over C28-C36)	59.0		50.0		mg/Kg		07/15/22 08:42	07/15/22 15:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				07/15/22 08:42	07/15/22 15:52	1
o-Terphenyl	88		70 - 130				07/15/22 08:42	07/15/22 15:52	1
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.7		5.01		mg/Kg			07/16/22 22:38	

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

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2553-1

Lab Sample ID: 890-2553-7

Lab Sample ID: 890-2553-8

Matrix: Solid

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	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			07/19/22 09:14	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result Qualifie	er 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)

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 14:24	1
Diesel Range Organics (Over C10-C28)	138	49.9	mg/Kg		07/15/22 08:42	07/15/22 14:24	1
Oll Range Organics (Over C28-C36)	52.3	49.9	mg/Kg		07/15/22 08:42	07/15/22 14:24	1

Surrogate	%Recovery 0	Qualifier	Limits	Prepared	d Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	07/15/22 08	3:42 07/15/22 14:24	1 1
o-Terphenyl	101		70 - 130	07/15/22 08	3:42 07/15/22 14:24	1 1

Method: 300.0 - Anions, Ion Chron	natography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6 69	4 97	ma/Ka			07/16/22 22:47	

Client Sample ID: BH-149 6'

Date Collected: 07/12/22 00:00

Date Received: 07/12/22 16:57

Sample Depth: 6'

Analyte

Total BTEX

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

RL

0.00404

MDL Unit

mg/Kg

Prepared

Analyzed

07/19/22 09:14

Result Qualifier

<0.00404 U

Dil Fac

Lab Sample ID: 890-2553-8

Lab Sample ID: 890-2553-9

Matrix: Solid

Client Sample Results

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	

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'

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 15:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 15:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 15:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/14/22 16:53	07/18/22 15:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/14/22 16:53	07/18/22 15:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/14/22 16:53	07/18/22 15:14	1
Surrogate	%Recovery	Qualifier	Limits				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 BTE		Qualifier	RI	MDI	Unit	n	Prenared	Analyzed	Dil Fac
Method: Total BTEX - Total BTE	EX Calculation								
Method: Total BTEX - Total BTE Analyte Total BTEX		Qualifier U		MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 07/19/22 09:14	Dil Fac
Analyte Total BTEX	<0.00399	U		MDL		<u>D</u>	Prepared		Dil Fac
Analyte	Result <0.00399	U		MDL MDL	mg/Kg	<u>D</u>	Prepared Prepared		1
Analyte Total BTEX Method: 8015 NM - Diesel Rang	Result <0.00399	U (GC)	0.00399		mg/Kg			07/19/22 09:14	1
Analyte Total BTEX Method: 8015 NM - Diesel Rang Analyte	Result	O) (GC) Qualifier	0.00399		mg/Kg			07/19/22 09:14 Analyzed	1
Analyte Total BTEX Method: 8015 NM - Diesel Rang Analyte Total TPH	ge Organics (DR) Result 83.6 nge 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 Rang Analyte Total TPH Method: 8015B NM - Diesel Rang	ge Organics (DR) Result 83.6 nge Organics (D	O) (GC) Qualifier RO) (GC) Qualifier	0.00399 RL 50.0	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	07/19/22 09:14 Analyzed 07/18/22 09:27	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Rang Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (DR) Result 83.6 nge Organics (DI) Result	O) (GC) Qualifier RO) (GC) Qualifier	0.00399 RL 50.0	MDL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	07/19/22 09:14 Analyzed 07/18/22 09:27 Analyzed	Dil Fac Dil Fac 1 Dil Fac 1

Matrix: Solid

Lab Sample ID: 890-2553-9

Lab Sample ID: 890-2553-10

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2553-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-150 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
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 - SolubleAnalyteResult ChlorideQualifierRL QualifierMDL mg/KgUnit preparedPreparedAnalyzed Analyzed PreparedDil Fac O7/16/22 23:05

Client Sample ID: BH-151 6'

Released to Imaging: 9/1/2023 3:25:35 PM

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	<0.00199	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 BTEX	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	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	126		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 16:56	,
Diesel Range Organics (Over C10-C28)	126		50.0		mg/Kg		07/15/22 08:42	07/15/22 16:56	•
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 16:56	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	93		70 - 130				07/15/22 08:42	07/15/22 16:56	
o-Terphenyl	99		70 - 130				07/15/22 08:42	07/15/22 16:56	
Method: 300.0 - Anions, Ion Chro	0								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	21.9		5.04		mg/Kg			07/16/22 23:15	

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Lab Sample ID: 890-2553-11

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)							
Method: 8015 NM - Diesel Range Analyte		O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
_				MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 07/18/22 09:27	
Analyte Total TPH	Result 74.9	Qualifier		MDL		<u>D</u>	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result 74.9	Qualifier RO) (GC)	50.0		mg/Kg			07/18/22 09:27	1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Result 74.9 ge Organics (D Result	Qualifier RO) (GC) Qualifier	50.0	MDL	mg/Kg	<u>D</u>	Prepared	07/18/22 09:27 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result 74.9	Qualifier RO) (GC) Qualifier	50.0		mg/Kg			07/18/22 09:27	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Result 74.9 ge Organics (D 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 C10-C28)	Result 74.9 ge Organics (D Result <50.0	Qualifier 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 18:42	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 (D 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	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 07/15/22 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 74.9	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) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result 74.9	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
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 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 07/15/22 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

Client Sample ID: BH-153 6'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Date Received. 07/12/22 10.

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

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Matrix: Solid

Lab Sample ID: 890-2553-12

Lab Sample ID: 890-2553-13

Matrix: Solid

Client Sample Results

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	iluə (OO) (Oolillilu 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

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		_	07/19/22 09:14	1

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
Oll 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

Surrogate	/ortecovery	Qualifier	Lillits	rrepareu	Allalyzeu	
1-Chlorooctane	81		70 - 130	07/15/22 08:42	07/15/22 15:06	
o-Terphenyl	84		70 - 130	07/15/22 08:42	07/15/22 15:06	
_						

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

Mathod:	Total	RTFY -	Total R	TEY C	alculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prep	pared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399		ma/Ka				07/19/22 09:14	1

Method: 8015 NM - Dies	el Range Organics (DRO)	(GC)

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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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 **REMOVED FROM ANALYSIS TABLE**

77.4

Lab Sample ID: 890-2553-13

07/17/22 00:01

Matrix: Solid

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		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 Lab Sample ID: 890-2553-14 Client Sample ID: BH-155 6'

mg/Kg

Date Collected: 07/12/22 00:00 Matrix: Solid

Date Received: 07/12/22 16:57

Sample Depth: 6'

Chloride

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 18:38	
Toluene	<0.00199	U	0.00199		mg/Kg		07/18/22 13:40	07/19/22 18:38	
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	,
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 BTE	X 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
Method: 8015 NM - Diesel Range	e 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 07/18/22 09:27	Dil Fac
Analyte	Result 111	Qualifier		MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result 111 ge Organics (D	Qualifier				<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result 111 ge Organics (D	Qualifier RO) (GC) Qualifier	50.0		mg/Kg			07/18/22 09:27	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result 111 ge Organics (D) Result <50.0	Qualifier RO) (GC) Qualifier	50.0		mg/Kg Unit mg/Kg		Prepared	07/18/22 09:27 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result 111 ge Organics (D Result	Qualifier RO) (GC) Qualifier	50.0 RL 50.0		mg/Kg		Prepared 07/15/22 08:42	07/18/22 09:27 Analyzed 07/15/22 14:45	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 111 ge Organics (D) 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 14:45	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 111 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 07/15/22 08:42 07/15/22 08:42	07/18/22 09:27 Analyzed 07/15/22 14:45 07/15/22 14:45	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 111	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 14:45 07/15/22 14:45	

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 Chron	natography - S	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 Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/18/22 13:40	07/19/22 19:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/18/22 13:40	07/19/22 19:19	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		07/18/22 13:40	07/19/22 19:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/18/22 13:40	07/19/22 19:19	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		07/18/22 13:40	07/19/22 19:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/18/22 13:40	07/19/22 19:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				07/18/22 13:40	07/19/22 19:19	1
1,4-Difluorobenzene (Surr)	95		70 - 130				07/18/22 13:40	07/19/22 19:19	1
- Method: Total BTEX - Total BTEX	K 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
Method: 8015 NM - Diesel Range	Organice (DD	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	11							
-	-00.0	U	50.0		mg/Kg			07/18/22 09:27	1
Method: 8015B NM - Diesel Rang			50.0		mg/Kg			07/18/22 09:27	1
Method: 8015B NM - Diesel Ranç Analyte	ge Organics (D		50.0 RL	MDL		D	Prepared	07/18/22 09:27 Analyzed	
Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier		MDL		<u>D</u>	Prepared 07/15/22 08:42		Dil Fac
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
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>	07/15/22 08:42	Analyzed 07/15/22 19:03	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <50.0	RO) (GC) Qualifier U	RL 50.0	MDL	Unit mg/Kg mg/Kg	<u> </u>	07/15/22 08:42 07/15/22 08:42	Analyzed 07/15/22 19:03	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 <50.0 <50.0	RO) (GC) Qualifier U	RL 50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u> </u>	07/15/22 08:42 07/15/22 08:42 07/15/22 08:42	Analyzed 07/15/22 19:03 07/15/22 19:03 07/15/22 19:03	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 <50.0 <50.0 <50.0	RO) (GC) Qualifier U		MDL	Unit mg/Kg mg/Kg	<u> </u>	07/15/22 08:42 07/15/22 08:42 07/15/22 08:42 Prepared	Analyzed 07/15/22 19:03 07/15/22 19:03 07/15/22 19:03 Analyzed	Dil Fac
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 <80.0 **Recovery** 83 89	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>	07/15/22 08:42 07/15/22 08:42 07/15/22 08:42 Prepared 07/15/22 08:42	Analyzed 07/15/22 19:03 07/15/22 19:03 07/15/22 19:03 Analyzed 07/15/22 19:03	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 <50.0 <50.0 <50.0 <80.0 **Recovery** 83 89 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>	07/15/22 08:42 07/15/22 08:42 07/15/22 08:42 Prepared 07/15/22 08:42	Analyzed 07/15/22 19:03 07/15/22 19:03 07/15/22 19:03 Analyzed 07/15/22 19:03	Dil Fac

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	

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 Sample Depth: 6' REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-2553-17

Matrix: Solid

4

6

8

10

12

13

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,4-Difluorobenzene (Surr)	91		70 - 130				07/18/22 13:40	07/19/22 20:41	
Method: Total BTEX - Total BTI	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00401	U	0.00401		mg/Kg			07/19/22 09:14	
Method: 8015 NM - Diesel Rang	ge Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	9550		250		mg/Kg			07/18/22 09:27	
Method: 8015B NM - Diesel Rai Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte Gasoline Range Organics		Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared 07/15/22 08:42	Analyzed 07/15/22 13:19	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier		MDL		<u>D</u>			
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <250 7890	Qualifier	250 250	MDL	mg/Kg	<u>D</u>	07/15/22 08:42 07/15/22 08:42	07/15/22 13:19 07/15/22 13:19	
		Qualifier	250	MDL	mg/Kg	<u> </u>	07/15/22 08:42	07/15/22 13:19	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	Result <250 7890	Qualifier U	250 250	MDL	mg/Kg	<u>D</u>	07/15/22 08:42 07/15/22 08:42	07/15/22 13:19 07/15/22 13:19	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <250 7890 1660	Qualifier U	250 250 250	MDL	mg/Kg	<u>D</u>	07/15/22 08:42 07/15/22 08:42 07/15/22 08:42	07/15/22 13:19 07/15/22 13:19 07/15/22 13:19	

RL

4.99

MDL Unit

mg/Kg

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'

Analyte

Chloride

REMOVED FROM ANALYSIS TABLE

Result Qualifier

117

Lab Sample ID: 890-2553-18

Analyzed

07/17/22 00:56

Prepared

Matrix: Solid

Dil Fac

Method: 8021B - Volatile Orga	nic Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/18/22 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: 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			07/19/22 09:14	1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2553-1 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

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-2553-18

Matrix: Solid

Sample Depth: 0' - 6'

Method: 8015 NM - Diesel Range C	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	152		49.9		mg/Kg			07/18/22 09:27	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit Analyzed Dil Fac Prepared <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 mg/Kg 07/15/22 08:42 07/15/22 18:21 152 C10-C28) OII 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 Prepared Analyzed Dil Fac Surrogate 07/15/22 08:42 1-Chlorooctane 74 70 - 130 07/15/22 18:21

Method: 300.0 - Anions, Ion Chrom	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.67		4.95		mg/Kg			07/17/22 01:06	1

70 - 130

Client Sample ID: SW-51 0-6'

Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

Sample Depth: 0' - 6'

o-Terphenyl

REMOVED FROM	
ANALYSIS TABLE	

78

Lab Sample ID: 890-2553-19

07/15/22 18:21

07/15/22 08:42

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 20:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/22 13:40	07/19/22 20:00	1
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)	116		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 BTEX Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
	Result <0.00399 Organics (DR	U (GC)	0.00399	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 07/19/22 09:14	1
Analyte Total BTEX	Result <0.00399 Organics (DR	U	0.00399	MDL	mg/Kg	<u>D</u>	Prepared Prepared		
Analyte Total BTEX . Method: 8015 NM - Diesel Range	Result <0.00399 Organics (DR	U (GC)	0.00399		mg/Kg			07/19/22 09:14	1
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte	Result <0.00399 Organics (DRO Result 202	O) (GC) Qualifier	0.00399		mg/Kg			07/19/22 09:14 Analyzed	1 Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH	e Organics (DRO Result 202 ge Organics (Dlo Result 202	O) (GC) Qualifier	0.00399		mg/Kg Unit mg/Kg			07/19/22 09:14 Analyzed	1 Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range	e Organics (DRO Result 202 ge Organics (Dlo Result 202	O) (GC) Qualifier RO) (GC) Qualifier	0.00399 RL 50.0	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	07/19/22 09:14 Analyzed 07/18/22 09:27	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	e Organics (DRO Result 202 ge Organics (DI Result Result Result Result Result Result Result Result Result Result	O) (GC) Qualifier RO) (GC) Qualifier	0.00399 RL 50.0	MDL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	07/19/22 09:14 Analyzed 07/18/22 09:27 Analyzed	Dil Fac Dil Fac

Client Sample Results

Job ID: 890-2553-1 Client: Tetra Tech, Inc. 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 Sample Depth: 0' - 6'

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-2553-19

Matrix: Solid

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 90 70 - 130 07/15/22 08:43 07/15/22 19:24 1-Chlorooctane 92 o-Terphenyl 70 - 130 07/15/22 08:43 07/15/22 19:24

Method: 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride 143 4.95 mg/Kg 07/17/22 01:15

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'

Method: 8021B - Volatile Organi	ic Compounds (GC)							
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 BTE	X Calculation								
Method: Total BTEX - Total BTE Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			RL 0.00399	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 07/19/22 09:14	Dil Fac
Analyte Total BTEX	Result < 0.00399	U		MDL		<u>D</u>	Prepared		
Analyte	Result < 0.00399 e Organics (DResult)	U				<u>D</u>	Prepared Prepared		
Analyte Total BTEX Method: 8015 NM - Diesel Rang	Result < 0.00399 e Organics (DResult)	U (GC)	0.00399		mg/Kg	<u> </u>		07/19/22 09:14	1
Analyte Total BTEX Method: 8015 NM - Diesel Rang Analyte Total TPH	e Organics (DR Result 81.4	O) (GC) Qualifier	0.00399 RL		mg/Kg	<u> </u>		07/19/22 09:14 Analyzed	1 Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Rang Analyte Total TPH Method: 8015B NM - Diesel Ran	e Organics (DR) Result 81.4 ge Organics (D	O) (GC) Qualifier	0.00399 RL	MDL	mg/Kg	<u> </u>		07/19/22 09:14 Analyzed	1 Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Rang Analyte	e Organics (DR) Result 81.4 ge Organics (D	O) (GC) Qualifier RO) (GC) Qualifier	0.00399 RL 49.8	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	07/19/22 09:14 Analyzed 07/18/22 09:27	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Rang Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics	e Organics (DR) Result 81.4 ge Organics (D) Result	O) (GC) Qualifier RO) (GC) Qualifier	0.00399 RL 49.8	MDL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	07/19/22 09:14 Analyzed 07/18/22 09:27 Analyzed	Dil Fac Dil Fac

Eurofins Carlsbad

Analyzed

07/15/22 16:13

07/15/22 16:13

Analyzed

07/17/22 01:24

Prepared

07/15/22 08:43

07/15/22 08:43

Prepared

D

Limits

70 - 130

70 - 130

RL

4.97

MDL Unit

mg/Kg

%Recovery Qualifier

92

97

386

Result Qualifier

Dil Fac

Dil Fac

Method: 300.0 - Anions, Ion Chromatography - Soluble

Surrogate

o-Terphenyl

Analyte

Chloride

1-Chlorooctane

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

		BFB1	DFBZ1	Perc	ent Surrogate Kei	ent Surrogate Recovery (Acceptance	ent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)				
380-17008-A-21-C MS	Matrix Spike	107	95	-			
880-17008-A-21-D MSD	Matrix Spike Duplicate	117	92				
890-2553-1	BH-142 5'	109	107				
890-2553-1 MS	BH-142 5'	97	85				
890-2553-1 MSD	BH-142 5'	118	90				
890-2553-2	BH-143 5'	130	98				
890-2553-3	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-140 5	106	110				
890-2553-7		112	96				
	BH-148 6'						
890-2553-8	BH-149 6'	111	110				
890-2553-9	BH-150 6'	105	108				
890-2553-10	BH-151 6'	111	108				
890-2553-11	BH-152 6'	110	99				
890-2553-12	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				

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate
		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	

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

		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	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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)

Lab Sample ID: MB 880-29774/5-A

Matrix: Solid Analysis Batch: 29893 Prep Type: Total/NA

Prep Batch: 29774

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		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

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 **Client Sample ID: Lab Control Sample**

Matrix: Solid

Prep Type: Total/NA Analysis Batch: 29893 Prep Batch: 29774

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09196	-	mg/Kg		92	70 - 130	
Toluene	0.100	0.1153		mg/Kg		115	70 - 130	
Ethylbenzene	0.100	0.1149		mg/Kg		115	70 - 130	
m-Xylene & p-Xylene	0.200	0.2397		mg/Kg		120	70 - 130	
o-Xylene	0.100	0.1241		mg/Kg		124	70 - 130	

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 0	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 Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits <0.00200 U F1 0.100 83 70 - 130 Benzene 0.08275 mg/Kg Toluene <0.00200 U 0.100 0.09095 mg/Kg 91 70 - 130

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2553-1 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 Ethylbenzene <0.00200 U 0.100 0.07967 80 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00401 U 0.200 0.1588 mg/Kg 79 70 - 130 0.100 o-Xylene <0.00200 U 0.08167 mg/Kg 82 70 - 130

MS MS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 97 70 - 130 1,4-Difluorobenzene (Surr) 70 - 130 85

Client Sample ID: BH-142 5'

Prep Type: Total/NA

Prep Batch: 29774

Analysis Batch: 29893

Matrix: Solid

Lab Sample ID: 890-2553-1 MSD

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U F1	0.0994	0.06644	F1	mg/Kg		67	70 - 130	22	35
Toluene	<0.00200	U	0.0994	0.07947		mg/Kg		80	70 - 130	13	35
Ethylbenzene	<0.00200	U	0.0994	0.07332		mg/Kg		74	70 - 130	8	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1541		mg/Kg		78	70 - 130	3	35
o-Xylene	<0.00200	U	0.0994	0.08160		mg/Kg		82	70 - 130	0	35

MSD MSD

Surrogate	%Recovery Qua	lifier 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	

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				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
o-Xylene	0.100	0.09506		mg/Kg		95	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-29947/2-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 30015 Prep Batch: 29947

	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

Matrix: Solid

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analysis Batch: 30015 Prep Batch: 29947

	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	

0-Xylene	0.00270	1211	0.100	0.01000 11	mg/rtg	10
	MS	MS				
Surrogate	%Recovery	Qualifier	Limits			
4-Bromofluorobenzene (Surr)	107		70 - 130			
		MS Surrogate %Recovery	MS MS Surrogate %Recovery Qualifier	MS MS Surrogate %Recovery Qualifier Limits	MS MS Surrogate %Recovery Qualifier Limits	MS MS Surrogate %Recovery Qualifier Limits

Lab Sample ID: 880-17008-A-21-D MSD

Client Sample ID: Matrix Spike Duplicate

70 - 130

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 30015 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

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1,4-Difluorobenzene (Surr)

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: 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 Qu	alitier 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

	IVID	IVID							
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 10:08	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 10:08	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/15/22 08:42	07/15/22 10:08	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	07/15/22 08:42	07/15/22 10:08	1
o-Terphenyl	103		70 - 130	07/15/22 08:42	07/15/22 10:08	1

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

Surrogate	%Recovery 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

LCSD LCSD Spike %Rec RPD Added Result Qualifier Unit %Rec Limits Limit Gasoline Range Organics 1000 1009 101 70 - 130 15 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1041 mg/Kg 104 70 - 130 5 20

C10-C28)

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	127	70 - 130
o-Terphenyl	128	70 - 130

Job ID: 890-2553-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-2553-1 MS

Matrix: Solid

Analysis Batch: 29788

Client Sample ID: BH-142 5' Prep Type: Total/NA

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 %Recovery Qualifier Limits Surrogate 1-Chlorooctane 70 - 130 82 o-Terphenyl 79 70 - 130

Lab Sample ID: 890-2553-1 MSD Client Sample ID: BH-142 5'

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 29788** Prep Batch: 29795

Spike MSD MSD %Rec RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit <50.0 U 999 92 70 - 130 6 Gasoline Range Organics 939.7 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 999 809.8 mg/Kg 77 70 - 130 7 20

C10-C28)

MSD MSD Surrogate %Recovery Qualifier 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 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 29864

	Spike	LCS I	LCS				%Rec	
Analyte	Added	Result (Qualifier	Unit	D	%Rec	Limits	
Chloride	250	256.2		mg/Kg	_	102	90 - 110	

Lab Sample ID: LCSD 880-29754/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

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 MSD MSD

Sample Sample 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.

Project/Site: Kaiser SWD

Job ID: 890-2553-1

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 Batch
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	

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Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-2553-1

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 Batcl
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

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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: 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 Bato
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	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2553-1	BH-142 5'	Total/NA	Solid	8015 NM	
890-2553-2	BH-143 5'	Total/NA	Solid	8015 NM	
890-2553-3	BH-144 5'	Total/NA	Solid	8015 NM	

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 Batcl
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	
390-2553-9	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	
390-2553-13	BH-154 6'	Total/NA	Solid	8015 NM	
390-2553-14	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	

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
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	
890-2553-5	BH-146 5'	Soluble	Solid	DI Leach	
890-2553-6	BH-147 6'	Soluble	Solid	DI Leach	
890-2553-7	BH-148 6'	Soluble	Solid	DI Leach	
890-2553-8	BH-149 6'	Soluble	Solid	DI Leach	
890-2553-9	BH-150 6'	Soluble	Solid	DI Leach	
890-2553-10	BH-151 6'	Soluble	Solid	DI Leach	
890-2553-11	BH-152 6'	Soluble	Solid	DI Leach	
890-2553-12	BH-153 6'	Soluble	Solid	DI Leach	
890-2553-13	BH-154 6'	Soluble	Solid	DI Leach	
890-2553-14	BH-155 6'	Soluble	Solid	DI Leach	
890-2553-15	BH-156 6'	Soluble	Solid	DI Leach	
890-2553-16	BH-157 6'	Soluble	Solid	DI Leach	
890-2553-17	BH-158 6'	Soluble	Solid	DI Leach	
890-2553-18	SW-50 0-6'	Soluble	Solid	DI Leach	
890-2553-19	SW-51 0-6'	Soluble	Solid	DI Leach	
890-2553-20	SW-52 0-6'	Soluble	Solid	DI Leach	
MB 880-29754/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-29754/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-29754/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2553-1 MS	BH-142 5'	Soluble	Solid	DI Leach	
890-2553-1 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	

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QC Association Summary

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-2553-1

SDG: Lea County NM

HPLC/IC

Analysis Batch: 29864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-2553-1	BH-142 5'	Soluble	Solid	300.0	2975
890-2553-2	BH-143 5'	Soluble	Solid	300.0	2975
890-2553-3	BH-144 5'	Soluble	Solid	300.0	2975
890-2553-4	BH-145 5'	Soluble	Solid	300.0	2975
890-2553-5	BH-146 5'	Soluble	Solid	300.0	2975
890-2553-6	BH-147 6'	Soluble	Solid	300.0	2975
890-2553-7	BH-148 6'	Soluble	Solid	300.0	2975
890-2553-8	BH-149 6'	Soluble	Solid	300.0	2975
890-2553-9	BH-150 6'	Soluble	Solid	300.0	2975
890-2553-10	BH-151 6'	Soluble	Solid	300.0	2975
890-2553-11	BH-152 6'	Soluble	Solid	300.0	2975
890-2553-12	BH-153 6'	Soluble	Solid	300.0	2975
890-2553-13	BH-154 6'	Soluble	Solid	300.0	2975
890-2553-14	BH-155 6'	Soluble	Solid	300.0	2975
890-2553-15	BH-156 6'	Soluble	Solid	300.0	2975
890-2553-16	BH-157 6'	Soluble	Solid	300.0	2975
890-2553-17	BH-158 6'	Soluble	Solid	300.0	2975
890-2553-18	SW-50 0-6'	Soluble	Solid	300.0	2975
890-2553-19	SW-51 0-6'	Soluble	Solid	300.0	2975
890-2553-20	SW-52 0-6'	Soluble	Solid	300.0	2975
MB 880-29754/1-A	Method Blank	Soluble	Solid	300.0	2975
LCS 880-29754/2-A	Lab Control Sample	Soluble	Solid	300.0	2975
LCSD 880-29754/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2975
890-2553-1 MS	BH-142 5'	Soluble	Solid	300.0	2975
890-2553-1 MSD	BH-142 5'	Soluble	Solid	300.0	2975
890-2553-11 MS	BH-152 6'	Soluble	Solid	300.0	2975
890-2553-11 MSD	BH-152 6'	Soluble	Solid	300.0	2975

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

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 30030 07/19/22 09:14 SM XEN MID 8015 NM Total/NA Analysis 1 29911 07/18/22 09:27 SM XEN MID 10.01 g 29795 07/15/22 08:42 XEN MID Total/NA 8015NM Prep 10 ml DM Prep Total/NA Analysis 8015B NM 29788 07/15/22 11:12 SM XEN MID 5.05 g 50 mL 29754 07/14/22 12:47 SMC XEN MID Soluble DI Leach Leach Soluble Analysis 300.0 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

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 29774 07/14/22 16:53 MR XEN MID Total/NA 8021B 07/18/22 12:48 Analysis 1 5 mL 5 mL 29893 MR XEN MID Total/NA Total BTEX 30030 07/19/22 09:14 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 1 29864 07/16/22 21:42 СН XEN MID

Client Sample ID: BH-144 5' Lab Sample ID: 890-2553-3

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			4.97 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 13:09	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 14:02	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	29754	07/14/22 12:47	SMC	XEN MID
Soluble	Analysis	300.0		1			29864	07/16/22 21:52	CH	XEN MID

Lab Sample ID: 890-2553-4 Client Sample ID: BH-145 5' Date Collected: 07/12/22 00:00 **Matrix: Solid**

Date Received: 07/12/22 16:57

Г	Datab	Datab		D:I	11411	F:1	D-4-b	Barrand		
	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 13:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			30030	07/19/22 09:14	SM	XEN MID

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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-145 5'

Lab Sample ID: 890-2553-4 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	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 **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 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	Туре	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	Type	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

Client: Tetra Tech, Inc. Job ID: 890-2553-1 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

Lab Sample ID: 890-2553-7

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			5.03 g	50 mL	29754	07/14/22 12:47	SMC	XEN MID
l	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

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 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	Туре	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

Matrix: Solid

Released to Imaging: 9/1/2023 3:25:35 PM

Job ID: 890-2553-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-152 6'

Date Received: 07/12/22 16:57

Lab Sample ID: 890-2553-11 Date Collected: 07/12/22 00:00

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 Total/NA Prep 5.01 g 5 mL 29947 07/18/22 13:40 MR XEN MID 8021B Total/NA Analysis 1 5 mL 5 mL 30015 07/19/22 17:37 MR XEN MID Total/NA Analysis Total BTEX 30030 07/19/22 09:14 SM XEN MID Total/NA 8015 NM 29911 XEN MID Analysis 1 07/18/22 09:27 SM Total/NA 8015NM Prep 29795 07/15/22 08:42 DM XEN MID Prep 10.01 g 10 mL Total/NA Analysis 8015B NM 29788 07/15/22 18:42 SM XEN MID Soluble DI Leach 50 mL 29754 07/14/22 12:47 SMC XEN MID Leach 4.99 g Soluble Analysis 300.0 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 **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			4.99 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 17:57	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 15:06	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 23:51	CH	XEN MID

Client Sample ID: BH-154 6' Lab Sample ID: 890-2553-13

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			5.01 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 MIC
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	Туре	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

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-155 6'

Lab Sample ID: 890-2553-14 Date Collected: 07/12/22 00:00 Date Received: 07/12/22 16:57

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 29911 Analysis 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 СН 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' Lab Sample ID: 890-2553-16 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			5.02 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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Page 38 of 47

Client: Tetra Tech, Inc. Job ID: 890-2553-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-158 6'

Lab Sample ID: 890-2553-17 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			5.01 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	Туре	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 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 20:20	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

Eurofins Carlsbad

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 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	

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

Eurofins Carlsbad

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Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD 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'
890-2553-16	BH-157 6'	Solid	07/12/22 00:00	07/12/22 16:57	6'
890-2553-17	BH-158 6'	Solid	07/12/22 00:00	07/12/22 16:57	6'
890-2553-18	SW-50 0-6'	Solid	07/12/22 00:00	07/12/22 16:57	0' - 6'
890-2553-19	SW-51 0-6'	Solid	07/12/22 00:00	07/12/22 16:57	0' - 6'
890-2553-20	SW-52 0-6'	Solid	07/12/22 00:00	07/12/22 16:57	0' - 6'

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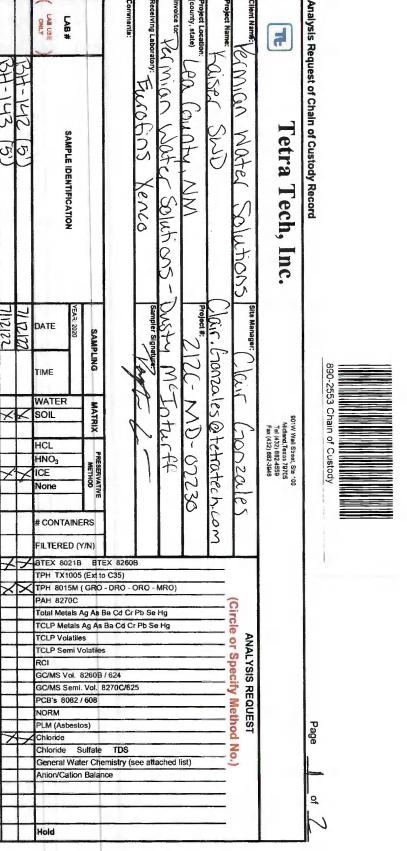
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FOO-MU-1 (Circle) HAND DELIVERED 6.0-CIP. Cooling In Proces

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Special Report Limits or TRRP Report

Page 44 of 47

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(Circle)		Sample			7	7	7	7	7		7	7	≠	7	# CONTA	INER D (Y/I	S N) BTE	X 8260	3				Š	
HAND DELIVERED F	Special Report Limits or TRRP Report	Temperature Rush Charges Authorized	DNLY	TO TO		У 	7 :	/	×			<i>★</i>		\frac{1}{2}	TPH TX1 TPH 801 PAH 827 Total Met TCLP Me TCLP Vol TCLP Set RCI GC/MS V GC/MS S PCB's 80 NORM PLM (Ast Chloride General I Anion/Ca	55M (COOC) 0C 0C 0C 0L 0L 0L 0L 0L 0L 0L 0L 0L 0L 0L 0L 0L	As Base attles attles (As Base As Base	DRO - G a Cd Cr Ba Cd Cr 624 270C/62 TDS mistry (s	Pb Se Pb Se	Hg	ist)		ANALYSIS REQUEST	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc. Job Number: 890-2553-1

SDG Number: Lea County NM

List Source: Eurofins Carlsbad Login Number: 2553 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 <6 mm (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: Eurofins Midland List Creation: 07/14/22 10:49 AM

List Number: 2 Creator: Rodriguez, Leticia

Login Number: 2553

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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Released to Imaging: 9/1/2023 3:25:35 PM

Environment Testing America

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

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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: 890-2689-1

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

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Qualifiers

GC 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.

GC Semi VOA

Qualifier 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.

Job ID: 890-2689-1

Project/Site: Kaiser SWD

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.

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Client: Tetra Tech, Inc.

Job ID: 890-2689-1
Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-118 (13')

Released to Imaging: 9/1/2023 3:25:35 PM

Date Collected: 07/26/22 12:00
Date Received: 07/29/22 14:06

Lab Sample ID: 890-2689-1 Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00202	U	0.00202		mg/Kg		08/05/22 11:19	08/06/22 01:44	1
<0.00202	U	0.00202		mg/Kg		08/05/22 11:19	08/06/22 01:44	1
<0.00202	U	0.00202		mg/Kg		08/05/22 11:19	08/06/22 01:44	1
<0.00404	U	0.00404		mg/Kg		08/05/22 11:19	08/06/22 01:44	1
<0.00202	U	0.00202		mg/Kg		08/05/22 11:19	08/06/22 01:44	1
<0.00404	U	0.00404		mg/Kg		08/05/22 11:19	08/06/22 01:44	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
94		70 - 130				08/05/22 11:19	08/06/22 01:44	1
96		70 - 130				08/05/22 11:19	08/06/22 01:44	1
BTEX Calcula	tion							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00404	U	0.00404		mg/Kg			08/08/22 14:27	
	<0.00202 <0.00202 <0.00202 <0.00404 <0.00404 *Recovery 94 96 BTEX Calcula Result	94 96 BTEX Calculation Result Qualifier	Country Coun	<0.00202	County C	<0.00202	<0.00202	<0.00202 U 0.00202 mg/Kg 08/05/22 11:19 08/06/22 01:44 <0.00202

Method: 8015 NM - Diesel Rang	je Organics (DRO) (GC	5)					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	247	49.9	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	<49.9	U	49.9		mg/Kg		08/03/22 09:25	08/03/22 22:32	1
Diesel Range Organics (Over C10-C28)	247		49.9		mg/Kg		08/03/22 09:25	08/03/22 22:32	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/03/22 09:25	08/03/22 22:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				08/03/22 09:25	08/03/22 22:32	1
o-Terphenyl	94		70 - 130				08/03/22 09:25	08/03/22 22:32	1

Method: 300.0 - Anions, Ion Ch	nromatogra	phy - Solu	ble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	263		5.03		mg/Kg			08/06/22 06:13	1

Client Sample ID: BH-119 (10')

Date Collected: 07/26/22 12:00

Date Received: 07/29/22 14:06

Lab Sample ID: 890-2689-2

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 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

Eurofins Carlsbad

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Client: Tetra Tech, Inc.

Job ID: 890-2689-1
Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-119 (10')

Date Collected: 07/26/22 12:00
Date Received: 07/29/22 14:06

Lab Sample ID: 890-2689-2

. Matrix: Solid

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	ge Organic	s (DRO) (G	iC)						
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 Ra	nge Organi	ics (DRO) ((GC)						
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	08/03/22 20:23	1
(GRO)-C6-C10									
Diagol Danas Onnonias (O	<49.9	U	49.9		mg/Kg		08/03/22 09:25	08/03/22 20:23	1
Diesel Range Organics (Over	10.0								
C10-C28)	10.0				0 0				

 Surrogate
 %Recovery
 Qualifier
 Limits
 Prepared
 Analyzed
 Dil Fac

 1-Chlorooctane
 99
 70 - 130
 08/03/22 09:25
 08/03/22 20:23
 1

 o-Terphenyl
 113
 70 - 130
 08/03/22 09:25
 08/03/22 20:23
 1

Client Sample ID: BH-158 (8')

Date Collected: 07/26/22 12:00

Lab Sample ID: 890-2689-3

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 00:42	
Toluene	< 0.00199	U	0.00199		mg/Kg		08/05/22 11:19	08/06/22 00:42	•
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		08/05/22 11:19	08/06/22 00:42	•
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/05/22 11:19	08/06/22 00:42	
o-Xylene	< 0.00199	U	0.00199		mg/Kg		08/05/22 11:19	08/06/22 00:42	
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)	110		70 - 130				08/05/22 11:19	08/06/22 00:42	
								00/00/00 00 40	
	93 BTEX Calcula	tion	70 - 130				08/05/22 11:19	08/06/22 00:42	
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total Analyte Total BTEX	BTEX Calcula Result	Qualifier	RL	MDL	Unit ma/Ka	<u>D</u>	08/05/22 11:19 Prepared	Analyzed	Dil Fa
Method: Total BTEX - Total Analyte Total BTEX Method: 8015 NM - Diesel I	BTEX Calcula Result <0.00398 Range Organic	Qualifier U	RL 0.00398		mg/Kg	_ =	Prepared	Analyzed 08/08/22 14:27	Dil Fa
Method: Total BTEX - Total Analyte Total BTEX Method: 8015 NM - Diesel I Analyte	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	
Method: Total BTEX - Total Analyte Total BTEX Method: 8015 NM - Diesel I Analyte Total TPH	Range Organic Result < 50.00	Qualifier U S (DRO) (O Qualifier U	RL 0.00398		mg/Kg	_ =	Prepared	Analyzed 08/08/22 14:27	
Method: Total BTEX - Total Analyte Total BTEX Method: 8015 NM - Diesel I Analyte Total TPH Method: 8015B NM - Diese	Range Organic Result	Qualifier U S (DRO) (O Qualifier U	RL 0.00398	MDL	mg/Kg Unit	_ =	Prepared	Analyzed 08/08/22 14:27	Dil Fa
Method: Total BTEX - Total Analyte Total BTEX Method: 8015 NM - Diesel I Analyte	Range Organic Result	Qualifier U S (DRO) (C Qualifier U ics (DRO) Qualifier	RL 0.00398 GC) RL 50.0 (GC)	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

Job ID: 890-2689-1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-158 (8')

Lab Sample ID: 890-2689-3

Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06

Matrix: Solid

Analyte	•	Qualifier	(GC) (Contin RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/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

Dil Fac

Method: 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier RL **MDL** Unit **Prepared** Analyzed Chloride 99.8 5.00 08/06/22 06:50 mg/Kg

Lab Sample ID: 890-2689-4

Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06

Client Sample ID: SW-50 (0-6')

Matrix: Solid

Method: 8021B - Volatile Or	ganic Compo	unds (GC)							
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 BTEX Calculation Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Total BTEX <0.00402 U 0.00402 mg/Kg 08/08/22 14:27 Method: 8015 NM - Diesel Range Organics (DRO) (GC)

motrical condition Biocon rung	,o o. gaino	O (D.10) (O	-,						
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 Rar	nge Organ	ics (DRO) (0	SC)						
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
Į	o-Terphenyl	96		70 - 130	08/03/22 09:25	08/04/22 00:58	1

ı	o-Terpnenyi	96		70 - 130				08/03/22 09:25	08/04/22 00:58	1
	Method: 300.0 - Anions, Ion Chi	romatogra	ıphy - Solul	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')

Method: 8021B - Volatile Organic Compounds (GC)

Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06 Lab Sample ID: 890-2689-5

Matrix: Solid

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	1
Toluene	< 0.00201	U	0.00201		mg/Kg		08/05/22 11:19	08/06/22 01:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/05/22 11:19	08/06/22 01:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/05/22 11:19	08/06/22 01:23	1
o-Xylene	< 0.00201	U	0.00201		mg/Kg		08/05/22 11:19	08/06/22 01:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/05/22 11:19	08/06/22 01:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				08/05/22 11:19	08/06/22 01:23	1
1,4-Difluorobenzene (Surr)	91		70 - 130				08/05/22 11:19	08/06/22 01:23	1
	•		•						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Ran Analyte Total TPH	•	Qualifier	•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/04/22 09:51	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ra	Result <50.0	Qualifier U	RL 50.0		mg/Kg	_ =	<u> </u>	08/04/22 09:51	1
Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte	Result <50.0	Qualifier U	RL 50.0	MDL	mg/Kg	<u>D</u>	Prepared Prepared	08/04/22 09:51 Analyzed	1
Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics	Result <50.0	Qualifier U ics (DRO) Qualifier	RL 50.0		mg/Kg	_ =	<u> </u>	08/04/22 09:51	1
Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 ange Organ Result	Qualifier U ics (DRO) Qualifier U	RL 50.0		mg/Kg Unit	_ =	Prepared 08/03/22 09:25	08/04/22 09:51 Analyzed	Dil Fac
Analyte	Result <50.0 ange Organ Result <50.0	Qualifier U ics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0		mg/Kg Unit mg/Kg	_ =	Prepared 08/03/22 09:25 08/03/22 09:25	08/04/22 09:51 Analyzed 08/04/22 01:18	Dil Fac

Method: 300.0 - Anions,	Ion Chromatography - Soluble	
Δnalvte	Result Qualifier	RI

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	201		4.97		mg/Kg			08/06/22 07:09	1

70 - 130

70 - 130

Client Sample ID: BH-159 (8')

Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06

1-Chlorooctane

o-Terphenyl

REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-2689-6

08/03/22 09:25 08/04/22 01:18

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 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

Eurofins Carlsbad

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Client: Tetra Tech, Inc. Job ID: 890-2689-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-159 (8')

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	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/08/22 14:27	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier

RL **MDL** Unit Analyzed Dil Fac Prepared 08/04/22 09:51 **Total TPH** 58.9 50.0 mg/Kg

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0		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
Oll Range Organics (Over C28-C36)	58.9		50.0		mg/Kg		08/03/22 09:25	08/03/22 22:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

08/03/22 09:25 08/03/22 22:53 1-Chlorooctane 87 70 - 130 o-Terphenyl 91 70 - 130

Method: 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Analyte RL MDL Unit Prepared Analyzed Dil Fac Chloride 581 25.3 mg/Kg 08/06/22 07:36

Client Sample ID: BH-160 (8') Lab Sample ID: 890-2689-7

Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06

Method: 8021B - Volatile	Organic Compou	ınds (GC)							
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	Calc	ulatio	on	

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac <0.00399 U 0.00399 08/08/22 14:27 Total BTEX mg/Kg

Method: 8015 NM - Diesel	Range Organics (DRO) (GC)
Analyte	Result Qualifier	

RLMDL Unit D Prepared Analyzed Dil Fac **Total TPH** 217 50.0 08/04/22 09:51 mg/Kg

Mothod: 8015B	NM - Diesel	Pango Ore	ranice	(DRO)	(GC)
Method: 8015B	MINI - DIEZEI	Range Org	Janics	(DRU)	(GC)

Analyte	Result	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	1

(GRO)-C6-C10

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Matrix: Solid

Job ID: 890-2689-1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

SDG: Lea County NM

Client Sample ID: BH-160 (8')

Lab Sample ID: 890-2689-7

Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06 Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	133		50.0		mg/Kg		08/03/22 09:25	08/03/22 21:49	1
C10-C28)									
Oll Range Organics (Over	83.6		50.0		mg/Kg		08/03/22 09:25	08/03/22 21:49	1
C28-C36)									
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

RL

25.2

MDL Unit

mg/Kg

Result Qualifier

563

Prepared Analyzed Dil Fac 08/06/22 07:46

Client Sample ID: BH-161 (8')

Lab Sample ID: 890-2689-8

Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06

Analyte

Chloride

Matrix: Solid

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
_	a								

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 BTEX	(Calcula	tion							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Į	Total BTEX	<0.00398	U	0.00398		mg/Kg			08/08/22 14:27	1

Method: 8015 NM - Diese	el Range Organics	(DRO) (G	C)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	218		49.9		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	<49.9	U	49.9		mg/Kg		08/03/22 09:25	08/03/22 22:11	1
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
o-Terphenyl	92	70 - 130	08/03/22 09:25	08/03/22 22:11	1

Job ID: 890-2689-1 SDG: Lea County NM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Client Sample ID: BH-161 (8')

Lab Sample ID: 890-2689-8

Matrix: Solid

Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06

Method: 300.0 - Anions, Ion Chro	omatogra	phy - Solul	ble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	515		25.0		mg/Kg			08/06/22 07:55	5

Lab Sample ID: 890-2689-9

Matrix: Solid

Client Sample ID: BH-162 (8') Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06

REMOVED FROM **ANALYSIS TABLE**

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 Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	П	0.00398		ma/Ka			08/08/22 14:27	

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 Rang	ge 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 - Diesel R	ange Organ	ics (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
OII 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

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	
Method: 300.0 - Anions, Ion Chrom	atography - Solub	le						
o-Terphenyl	94	70 - 130		(08/03/22 09:25	08/04/22 00:18	1	
1-Officiocciane	07	10-130		,	00/03/22 03.20	00/04/22 00.10	,	

24.9

mg/Kg

Lab Sample ID: 890-2689-10 Client Sample ID: BH-163 (8') Date Collected: 07/26/22 12:00 **Matrix: Solid**

106

Date Received: 07/29/22 14:06

Chloride

Method: 8021B - Volatile Organic Compounds (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
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/05/22 11:19	08/06/22 02:25	1

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08/06/22 08:04

Client: Tetra Tech, Inc.

Job ID: 890-2689-1
Project/Site: Kaiser SWD

SDG: Lea County NM

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/05/22 11:19	08/06/22 02:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/05/22 11:19	08/06/22 02:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/05/22 11:19	08/06/22 02:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	122		70 - 130				08/05/22 11:19	08/06/22 02:25	
1,4-Difluorobenzene (Surr)	82		70 - 130				08/05/22 11:19	08/06/22 02:25	1
Method: Total BTEX - Total B	TEX Calcula	tion							
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 Rai	ngo Organio	e (DPO) (O	2C)						
Analyte	-	Qualifier	RL	MDL	Unit	D	Dropared	Analyzed	Dil Fac
				MDL			Prepared		DII Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/04/22 09:51	1
Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)						
		Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	KL	IVIDE					
Analyte Gasoline Range Organics (GRO)-C6-C10	<50.0		50.0	WIDE	mg/Kg		08/03/22 09:25	08/03/22 23:37	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		U		- MDE	mg/Kg		08/03/22 09:25 08/03/22 09:25	08/03/22 23:37 08/03/22 23:37	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	- IMDL					1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 <50.0	U U	50.0	mbe.	mg/Kg		08/03/22 09:25	08/03/22 23:37	1 1 Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 <50.0 <50.0	U U	50.0 50.0 50.0	MDE	mg/Kg		08/03/22 09:25 08/03/22 09:25	08/03/22 23:37 08/03/22 23:37	1

Method: 300.0 - Anions, ion Cr	iromatograpny - Solub	DIE					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	107	5.02	mg/Kg			08/06/22 08:13	1

Client Sample ID: BH-164 (8')
Date Collected: 07/26/22 12:00
Date Received: 07/29/22 14:06

REMOVED FROM ANALYSIS TABLE

Lab	Sample	ID:	890-2689-11
			Matrix: Solid

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	U	0.00402		mg/Kg			08/08/22 14:27	

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2

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7

9

11

13

Analyzed

08/06/22 08:22

Prepared

Client: Tetra Tech, Inc. Job ID: 890-2689-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-164 (8')

Analyte

Chloride

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 F	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

Client Sample ID: BH-165 (13') Lab Sample ID: 890-2689-12

RL

24.9

MDL Unit

mg/Kg

Result Qualifier

1340

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 07:54	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/05/22 11:19	08/06/22 07:54	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/05/22 11:19	08/06/22 07:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/05/22 11:19	08/06/22 07:54	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/05/22 11:19	08/06/22 07:54	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/05/22 11:19	08/06/22 07:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				08/05/22 11:19	08/06/22 07:54	1
1,4-Difluorobenzene (Surr)	91		70 - 130				08/05/22 11:19	08/06/22 07:54	1
Method: Total BTEX - Total B	TEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte Total BTEX	<0.00402	Qualifier U	0.00402	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/08/22 14:27	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Ra	Result <0.00402	Qualifier U	0.00402		mg/Kg	=	<u> </u>	08/08/22 14:27	1
Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte	Result <0.00402 nge Organic Result	Qualifier U	0.00402 GC)	MDL MDL	mg/Kg	<u>D</u>	Prepared Prepared	08/08/22 14:27 Analyzed	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Ra	Result <0.00402	Qualifier U	0.00402		mg/Kg	=	<u> </u>	08/08/22 14:27	1
Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte Total TPH	Result <0.00402 nge Organic Result 64.6	Qualifier U s (DRO) (O Qualifier	0.00402 GC) RL 49.9		mg/Kg	=	<u> </u>	08/08/22 14:27 Analyzed	1
Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte Total TPH Method: 8015B NM - Diesel R	Result <0.00402 nge Organic Result 64.6 cange Organic	Qualifier U s (DRO) (O Qualifier	0.00402 GC) RL 49.9		mg/Kg Unit mg/Kg	=	<u> </u>	08/08/22 14:27 Analyzed	1
Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte	Result <0.00402 nge Organic Result 64.6 cange Organic	Qualifier U S (DRO) (C Qualifier ics (DRO) Qualifier	0.00402 GC) RL 49.9	MDL	mg/Kg Unit mg/Kg	<u></u> <u></u>	Prepared	08/08/22 14:27 Analyzed 08/04/22 09:51	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics	Result <0.00402 nge Organic Result 64.6 cange Organic Result	Qualifier U S (DRO) (C 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	Dil Fac

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Dil Fac

Date Received: 07/29/22 14:06

Client: Tetra Tech, Inc. Job ID: 890-2689-1 Project/Site: Kaiser SWD SDG: Lea County NM

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

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 C	Method: 300.0 - Anions, Ion Chromatography - Soluble						
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**

Method: 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier **MDL** Unit Prepared RL Analyzed Dil Fac Benzene <0.00202 U 0.00202 08/07/22 12:02 08/08/22 00:42 mg/Kg Toluene <0.00202 U 0.00202 mg/Kg 08/07/22 12:02 08/08/22 00:42 Ethylbenzene mg/Kg 08/07/22 12:02 08/08/22 00:42 <0.00202 U 0.00202 m-Xylene & p-Xylene <0.00403 U 0.00403 mg/Kg 08/07/22 12:02 08/08/22 00:42 o-Xylene <0.00202 UF1 0.00202 mg/Kg 08/07/22 12:02 08/08/22 00:42 Xylenes, Total <0.00403 UF1 0.00403 mg/Kg 08/07/22 12:02 08/08/22 00:42

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 BT	EX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			08/08/22 14:27	1

Method: 8015 NM - Diesel Rang	ge Organic	s (DRO) (G	SC)					
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

Allalyte	itesuit	Quanner	112	MDL OIII		rieparea	Allalyzea	Diriac
Total TPH	<49.9	U	49.9	mg/K	ig –		08/04/22 09:51	1
Method: 8015B NM - Diesel Ra	ınge Organi	cs (DRO) ((GC)					

Α	nalyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
G	asoline Range Organics	<49.9	U	49.9		mg/Kg		08/03/22 09:25	08/04/22 01:38	1
(0	GRO)-C6-C10									
D	iesel Range Organics (Over	<49.9	U	49.9		mg/Kg		08/03/22 09:25	08/04/22 01:38	1
C	10-C28)									
C	II 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 Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	86.9		5.00		mg/Kg			08/06/22 08:59	1

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

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 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 I	Range Organic	s (DRO) (0	SC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9		49.9		mg/Kg			08/04/22 09:51	

Method: 8015B NM - Diesel Ra	ange Organi	ics (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 01:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/03/22 09:25	08/04/22 01:58	1
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
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

Lab Sample ID: 890-2689-15

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		08/07/22 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
1.4-Difluorobenzene (Surr)	77		70 - 130				08/07/22 12:02	08/08/22 01:23	1

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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

Lab Sample ID: 890-2689-15

Matrix: Solid

Method: Total BTEX - Total B7						_			
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 Rar	nge Organic	s (DRO) (0	GC)						
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 Ra	ange Organ	ics (DRO)	(GC)						
Analyte	Result	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	1
(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 Fac
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	

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	
b Sample ID	Client Sample ID	(70-130)	(70-130)	
0-2689-1	BH-118 (13')	94	96	
0-2689-2	BH-119 (10')	114	92	
0-2689-2 MS	BH-119 (10')	124	98	
0-2689-2 MSD	BH-119 (10')	112	93	
0-2689-3	BH-158 (8')	110	93	
0-2689-4	SW-50 (0-6')	117	89	
0-2689-5	SW-51 (0-6')	111	91	
0-2689-6	BH-159 (8')	131 S1+	91	
0-2689-7	BH-160 (8')	135 S1+	89	
0-2689-8	BH-161 (8')	106	77	
0-2689-9	BH-162 (8')	108	87	
0-2689-10	BH-163 (8')	122	82	
0-2689-11	BH-164 (8')	124	99	
0-2689-12	BH-165 (13')	115	91	
0-2689-13	SW-43 (0-4')	110	88	
0-2689-13 MS	SW-43 (0-4')	114	95	
)-2689-13 MSD	SW-43 (0-4')	120	94	
)-2689-14	SW-39 (0-13')	120	93	
0-2689-15	SW-40 (0-13')	108	77	
S 880-31573/1-A	Lab Control Sample	106	90	
S 880-31669/1-A	Lab Control Sample	100	99	
SD 880-31573/2-A	Lab Control Sample Dup	112	94	
SD 880-31669/2-A	Lab Control Sample Dup	101	101	
3 880-31335/5-A	Method Blank	99	89	
3 880-31573/5-A	Method Blank	101	91	
3 880-31602/5-A	Method Blank	95	80	
880-31669/5-A	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 Recovery	(Acceptance Limits)
		1CO1	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	

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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

			Perc	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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Client: Tetra Tech, Inc. Job ID: 890-2689-1 Project/Site: Kaiser SWD SDG: Lea County NM

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	MB							
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 00:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:19	08/06/22 00:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:19	08/06/22 00:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/05/22 11:19	08/06/22 00:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/22 11:19	08/06/22 00:00	1
Xylenes, Total	< 0.00400	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

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			Client Sample ID: Lab Control Sample Dup								
Matrix: Solid						Prep Ty	pe: Tot	al/NA			
Analysis Batch: 31540						Prep E	Satch: 3	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 n 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

Matrix: Solid

Analysis Batch: 31540

Client Sample ID: BH-119 (10') Prep Type: Total/NA

Prep Batch: 31573

Sample Sample Spike MS MS %Rec Result Qualifier Analyte Added Result Qualifier D %Rec Limits Unit 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 Qualifier	Limits
4-Bromofluorobenzene (Surr)	124	70 - 130
1,4-Difluorobenzene (Surr)	98	70 - 130

Lab Sample ID: 890-2689-2 MSD

Matrix: Solid

Analysis Batch: 31540

Client Sample ID: BH-119 (10') Prep Type: Total/NA

Prep Batch: 31573

	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	0.08524		mg/Kg		85	70 - 130	7	35	
Toluene	<0.00200	U	0.0998	0.08780		mg/Kg		88	70 - 130	13	35	
Ethylbenzene	<0.00200	U	0.0998	0.08996		mg/Kg		90	70 - 130	17	35	
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1787		mg/Kg		90	70 - 130	22	35	
o-Xylene	<0.00200	U	0.0998	0.1036		mg/Kg		104	70 - 130	19	35	

MSD MSD

MD MD

Surrogate	%Recovery Qualifier	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

	IVID	IAID						
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

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: 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 **Prepared** Analyzed Dil Fac o-Xylene <0.00200 U 0.00200 mg/Kg 08/05/22 13:42 08/07/22 13:44 0.00400 08/05/22 13:42 08/07/22 13:44 Xylenes, Total <0.00400 U mg/Kg

MR MR

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
1,4-Difluorobenzene (Surr)	80	70 - 130	08/05/22 13:42	08/07/22 13:44	1

Lab Sample ID: MB 880-31669/5-A

Matrix: Solid

Analysis Batch: 31654

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 31669

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 08/07/22 12:02 08/08/22 00:21 Benzene <0.00200 U 0.00200 mg/Kg Toluene mg/Kg 08/07/22 12:02 08/08/22 00:21 <0.00200 U 0.00200 Ethylbenzene <0.00200 U mg/Kg 08/07/22 12:02 08/08/22 00:21 0.00200 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 08/07/22 12:02 08/08/22 00:21 o-Xylene <0.00200 U 0.00200 mg/Kg 08/07/22 12:02 08/08/22 00:21 Xylenes, Total <0.00400 U 0.00400 mg/Kg 08/07/22 12:02 08/08/22 00:21

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared A	nalyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	08/07/22 12:02 08/0	8/22 00:21	1
1,4-Difluorobenzene (Surr)	111		70 - 130	08/07/22 12:02 08/0	8/22 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

Released to Imaging: 9/1/2023 3:25:35 PM

Client Sample	ID: La	ab (Control	Sample	Dup

Prep Type: Total/NA

Analysis Batch: 31654					Prep E	Batch: 3	31669
	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. Job ID: 890-2689-1 Project/Site: Kaiser SWD 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

•	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) 95 70 - 130

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

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 104 70 - 130 35 mg/Kg 70 - 130 Toluene 0.100 0.1120 <0.00202 U mg/Kg 112 35 1 Ethylbenzene <0.00202 U 0.100 0.1218 mg/Kg 122 70 - 130 35 <0.00403 U 0.200 0.2532 126 70 - 130 35 m-Xylene & p-Xylene mg/Kg 3 o-Xylene <0.00202 UF1 0.100 0.1413 F1 mg/Kg 141 70 - 130 3 35

MSD MSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 120 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 94

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

	IVID	IVID							
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 MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	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

QC Sample Results

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)

Lab Sample ID: LCS 880-31397/2-A

Lab Sample ID: LCSD 880-31397/3-A

Matrix: Solid

Analysis Batch: 31371

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 31397

Prep Type: Total/NA Prep Batch: 31397

Prep Type: Total/NA

Client Sample ID: BH-119 (10')

Spike LCS LCS Added Result Qualifier D %Rec Limits Analyte Unit Gasoline Range Organics 1000 1052 mg/Kg 105 70 - 130 (GRO)-C6-C10 1000 Diesel Range Organics (Over 1023 102 mg/Kg 70 - 130

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	107		70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 31371

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	1144		mg/Kg		114	70 - 130	8	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	1065		mg/Kg		106	70 - 130	4	20	

C10-C28)

	LCSD	LUSD	
Surrogate	%Recovery	Qualifier	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 I	Batch: 31397
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	999	1062		mg/Kg		104	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	999	844.1		mg/Kg		84	70 - 130	

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 96 70 - 130 92 70 - 130 o-Terphenyl

88

Lab Sample ID: 890-2689-2 MSD

1-Chlorooctane

Matrix: Solid Analysis Batch: 31371									Prep Ty Prep E		
-	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	906.5		mg/Kg		88	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	780.0		mg/Kg		78	70 - 130	8	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								

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70 - 130

Prep Batch: 31397

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)

Lab Sample ID: 890-2689-2 MSD Client Sample ID: BH-119 (10') Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 31371

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

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

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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.

Project/Site: Kaiser SWD

Job ID: 890-2689-1
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

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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

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Job ID: 890-2689-1 Client: Tetra Tech, Inc. 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	
890-2689-3	BH-158 (8')	Total/NA	Solid	8015 NM	
890-2689-4	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	
890-2689-7	BH-160 (8')	Total/NA	Solid	8015 NM	
890-2689-8	BH-161 (8')	Total/NA	Solid	8015 NM	
890-2689-9	BH-162 (8')	Total/NA	Solid	8015 NM	
890-2689-10	BH-163 (8')	Total/NA	Solid	8015 NM	
890-2689-11	BH-164 (8')	Total/NA	Solid	8015 NM	
890-2689-12	BH-165 (13')	Total/NA	Solid	8015 NM	
890-2689-13	SW-43 (0-4')	Total/NA	Solid	8015 NM	
890-2689-14	SW-39 (0-13')	Total/NA	Solid	8015 NM	
890-2689-15	SW-40 (0-13')	Total/NA	Solid	8015 NM	

Client: Tetra Tech, Inc. Job ID: 890-2689-1 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

Job ID: 890-2689-1 SDG: Lea County NM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Lab Sample ID: 890-2689-1

Matrix: Solid

Matrix: Solid

Client Sample ID: BH-118 (13') 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	Prep	5035			4.95 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 01:44	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 Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g	10 mL	31397 31371	08/03/22 09:25 08/03/22 22:32		EETSC M
Soluble Soluble	Leach Analysis	DI Leach 300.0		1	4.97 g	50 mL	31360 31623	08/02/22 19:05 08/06/22 06:13		EETSC M EETSC M

Client Sample ID: BH-119 (10') Lab Sample ID: 890-2689-2

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	Prep	5035			5.01 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 00:22	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	08/03/22 20:23	AJ	EETSC M
Soluble	Leach	DI Leach			4.99 g	50 mL	31360	08/02/22 19:05	SMC	EETSC M
Soluble	Analysis	300.0		5			31623	08/06/22 06:41	AJ	EETSC M

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

	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 MI
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

	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

SDG: Lea County NM

Client Sample ID: SW-50 (0-6')

Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06

Lab Sample ID: 890-2689-4

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			10.04 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 MIC
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	Туре	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

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Released to Imaging: 9/1/2023 3:25:35 PM

Job ID: 890-2689-1

SDG: Lea County NM

Client Sample ID: BH-160 (8')

Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Lab Sample ID: 890-2689-7

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			4.96 g	50 mL	31360	08/02/22 19:05	SMC	EETSC MIC
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 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 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 MIC
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 MID
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

Job ID: 890-2689-1 SDG: Lea County NM

Project/Site: Kaiser SWD Client Sample ID: BH-164 (8')

Lab Sample ID: 890-2689-11

Date Collected: 07/26/22 12:00 Date Received: 07/29/22 14:06

Client: Tetra Tech, Inc.

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	31573	08/05/22 11:19	MR	EETSC MIC
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

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

	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**

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			4.96 g	5 mL	31669	08/07/22 12:02	EL	EETSC MI
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')

Date Collected: 07/29/22 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	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

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Lab Sample ID: 890-2689-14

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Matrix: Solid

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

	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

Lab Sample ID: 890-2689-15 Client Sample ID: SW-40 (0-13')

Date Collected: 07/29/22 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			5.02 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 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

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	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-24	06-30-23
The following analyte the agency does not		ort, but the laboratory is r	not certified by the governing authority.	This list may include analytes for which
and agency does not	oner certification.			
Analysis Method	Prep Method	Matrix	Analyte	
0 ,		Matrix Solid	Analyte Total TPH	

2

4

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8

10

12

13

Method Description

Method Summary

Client: Tetra Tech, Inc. Job ID: 890-2689-1 Project/Site: Kaiser SWD SDG: Lea County NM

Protocol Laboratory SW846 **EETSC MID**

8021B	Volatile Organic Compounds (GC)	SW846	EETSC MID
Total BTEX	Total BTEX Calculation	TAL SOP	EETSC MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EETSC MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EETSC MID
300.0	Anions, Ion Chromatography	MCAWW	EETSC MID
5035	Closed System Purge and Trap	SW846	EETSC MID
8015NM Prep	Microextraction	SW846	EETSC MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EETSC MID

Protocol References:

Method

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

Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

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
890-2689-2	BH-119 (10')	Solid	07/26/22 12:00	07/29/22 14:06
890-2689-3	BH-158 (8')	Solid	07/26/22 12:00	07/29/22 14:06
890-2689-4	SW-50 (0-6')	Solid	07/26/22 12:00	07/29/22 14:06
890-2689-5	SW-51 (0-6')	Solid	07/26/22 12:00	07/29/22 14:06
890-2689-6	BH-159 (8')	Solid	07/26/22 12:00	07/29/22 14:06
890-2689-7	BH-160 (8')	Solid	07/26/22 12:00	07/29/22 14:06
890-2689-8	BH-161 (8')	Solid	07/26/22 12:00	07/29/22 14:06
890-2689-9	BH-162 (8')	Solid	07/26/22 12:00	07/29/22 14:06
890-2689-10	BH-163 (8')	Solid	07/26/22 12:00	07/29/22 14:06
890-2689-11	BH-164 (8')	Solid	07/26/22 12:00	07/29/22 14:06
890-2689-12	BH-165 (13')	Solid	07/26/22 12:00	07/29/22 14:06
890-2689-13	SW-43 (0-4')	Solid	07/26/22 12:00	07/29/22 14:06
890-2689-14	SW-39 (0-13')	Solid	07/29/22 12:00	07/29/22 14:06
890-2689-15	SW-40 (0-13')	Solid	07/29/22 12:00	07/29/22 14:06

	Relinquished by:	,	Rélinquished by:	Religious and by											LABUSE	LAB#		Comments:	Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:	7	Analysis R
	by:		by:	No.	BH-163 (8")	ВН-162 (8')	BH-161 (8')	ВН-160 (8')	ВН-159 (8')	SW-51 (0-6')	SW-50 (0-6')	BH-158 (8')	BH-119 (10')	Вн-118 (13')		SAN			Eurofins Xenco		Lea County, NM	Kaiser SWD	Permian V	Te	Analysis Request of Chain of Custody Record
	Date: Time:		Date: Time:	7/20/27 1405												SAMPLE IDENTIFICATION			Xenco	Permian Water Solutions - Dusty McInturff	ity, NM	VD	Permian Water Solutions	[etra Tech, Inc.	ustody Record
ORIGINAL COPY	Received by:		Received by:	Received by:	7/26/2022	7/26/2022	7/26/2022	7/26/2022	7/26/2022	7/26/2022	7/26/2022	7/26/2022	7/26/2022	7/26/2022	DATE	YEAR: 2020	SAMPLING				Project #:		Site Manager		
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	Date: Time:		Date: Time:	1 - 1/2/1 - 1 d	Date: Time:				SW-40 (0-13')	SW-39 (0-13')	SW-43 (0-4')	BH-165 (8')	BH-164 (8')		SAMPLE IDENTIFICATION			Eurofins Xenco	Permian Water Solutions - Dusty McInturff	Lea County, NM	Kaiser SWD	Permian Water Solutions	Tetra Tech, Inc.
-	Received by:		Received by:	Thurs.	Received by:				7/29/2022	7/29/2022	7/26/2022	7/26/2022	7/26/2022	DATE TIME	YEAR: 2020	SAMPLING		Sampler Signature:		Project #		Site Manager	
	Date:		/ Date:	PT S	Date:				×	×	×	×	×	WATEI SOIL HCL	R	MATRIX		Peyton Oliver		212C-MD-02230	Clair.Gonzales@tetratech.com	Clair Gonzales	901W wall Sireet, Ste 100 Midand, Texas 79705 Tel (432) 662-4559 Fax (432) 682-3946
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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

List Number: 1

Login Number: 2689

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	

Released to Imaging: 9/1/2023 3:25:35 PM

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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 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	N/A	

vj 1449

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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: 890-2784-1

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

Review your project results through EOL

.....LINKS

Received by OCD: 8/29/2023 3:51:49 PM

Have a Question?



Visit us at:

www.eurofinsus.com/Env Released to Imaging: 9/1/2023 3:25:35 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

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

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G	U	v	U.	А

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.

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HPLC/IC

III LO/IO	
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.

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Glossary Abbreviation

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%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.

Listed under the "D" column to designate that the result is reported on a dry weight basis

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
POL 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)

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') (890-2784-53), SW-67 (8-10') (890-2784-54), SW-68 (0-6') (890-2784-55), SW-69 (0-6') (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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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			D.	MDI	1114	_	B	A a b a . d	D!! E-
Analyte	Result	Qualifier	RL	MDL	Unit ma/Ka	<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 (Di	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 (Dige 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 (Dige Result	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 (Dige 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	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 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) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U RO) (GC) Qualifier U F1 U F1 U Gualifier S1-	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	MDL	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

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	

Eurofins Carlsbad

Lab Sample ID: 890-2784-2

Matrix: Solid

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2784-1 SDG: Lea County NM

Lab Sample ID: 890-2784-2

08/22/22 13:43

08/22/22 23:41

Lab Sample ID: 890-2784-3

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 Organi	c Compounds	(GC)	(Continued)
Method. 0021D	- voiatile Olyaili	c compounds	1001	(Continueu)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	85	70 - 130	08/30/22 12:01	09/01/22 00:20	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	<0.00399	U	0.00399		mg/Kg		_	09/01/22 12:44	1

l .		
Mothod: 904E NM Dia	sel Range Organics (DRO) (GC)	١
INICITIOU. OUTS ININI - DIC	sel Kalige Organics (DKO) (GC)	,

Analyte	Result Qua	lifier 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 13:43	08/22/22 23:41	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		08/22/22 13:43	08/22/22 23:41	1
C10-C28)									
OII 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
o-Terphenyl	71	70 - 130

o-Terphenyl	71	70 - 130	08/22/22 13:43	08/22/22 23:41	1
Method: 300.0 - Anions, Ion Chromatograp	hy - Soluble				

Analyte	Result Qualifier	KL	MDL OIII	U	Prepareu	Allalyzeu	DII Fac
Chloride	298	5.02	mg/Kg			08/29/22 04:20	1

Client Sample ID: BH-132 (8')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Sample Depth: 8

Method: 8021B -	Volatile Organ	ic Compounds	s (GC)
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Wethou. 002 ID - Volatile Orga	inic compounds	(00)							
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

Mathod:	Total	RTFY -	Total R	TEY C	alculation

Analyte	Result Q	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403 U	J	0.00403		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

Matrix: Solid

Lab Sample ID: 890-2784-3

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')

Lab Sample ID: 890-2784-4

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	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		08/22/22 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
			70 ₋ 130					08/23/22 00:24	

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD 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 Chromatography - Soluble										
	Analyte	Result	Qualifier	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 **Matrix: Solid**

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 8

(GRO)-C6-C10

C10-C28)

Surrogate

1-Chlorooctane

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

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 01:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 01:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 01:21	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/30/22 12:01	09/01/22 01:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 01:21	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/30/22 12:01	09/01/22 01:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				08/30/22 12:01	09/01/22 01:21	1
1,4-Difluorobenzene (Surr)	89		70 - 130				08/30/22 12:01	09/01/22 01:21	1
Method: Total BTEX - Total B1	ΓEX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	
						_		Allalyzeu	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg	=		09/01/22 12:44	Dil Fac
Total BTEX Method: 8015 NM - Diesel Rar			0.00401		mg/Kg				Dil Fac
- -	nge Organics (DR		0.00401	MDL	mg/Kg Unit		Prepared		Dil Fac Dil Fac
∃ Method: 8015 NM - Diesel Rar	nge Organics (DR	O) (GC) Qualifier		MDL				09/01/22 12:44	1
Method: 8015 NM - Diesel Rar Analyte	nge Organics (DR Result <50.0	O) (GC) Qualifier	RL	MDL	Unit			09/01/22 12:44 Analyzed	1
Method: 8015 NM - Diesel Rar Analyte Total TPH	nge Organics (DR Result <50.0	O) (GC) Qualifier	RL	MDL	Unit			09/01/22 12:44 Analyzed	1

o-Terphenyl	82	70 - 130			08/22/22 13:43	08/23/22 00:45	1
Method: 300.0 - Anions, Ion Chro	matography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	892	5.03	mg/Kg			08/29/22 04:59	1

50.0

50.0

Limits

70 - 130

mg/Kg

mg/Kg

08/22/22 13:43

08/22/22 13:43

Prepared

08/22/22 13:43

08/23/22 00:45

08/23/22 00:45

Analyzed

08/23/22 00:45

Dil Fac

<50.0 U

<50.0 U

%Recovery Qualifier

68

S1-

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	
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 01:42	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 01:42	
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/30/22 12:01	09/01/22 01:42	
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 01:42	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/30/22 12:01	09/01/22 01:42	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	114		70 - 130				08/30/22 12:01	09/01/22 01:42	
1,4-Difluorobenzene (Surr)	100		70 - 130				08/30/22 12:01	09/01/22 01:42	
Method: Total BTEX - Total BTE	K Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/01/22 12:44	
Amalusta	Desuit	Ouglifien	DI.	MDI	I Imia	_	Duamanad	Amalumad	D:: F-
		Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/23/22 11:36	
Total TPH	92.4			MDL	Unit mg/Kg	<u>D</u>	Prepared		
Total TPH Method: 8015B NM - Diesel Ran	92.4 ge Organics (D	RO) (GC)	49.9		mg/Kg			08/23/22 11:36	
Total TPH Method: 8015B NM - Diesel Rang Analyte	92.4 ge Organics (Di Result	RO) (GC) Qualifier	49.9		mg/Kg	<u>D</u>	Prepared	08/23/22 11:36 Analyzed	Dil Fa
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	92.4 ge Organics (D	RO) (GC) Qualifier	49.9		mg/Kg			08/23/22 11:36	Dil Fa
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	92.4 ge Organics (Di Result	RO) (GC) Qualifier	49.9		mg/Kg		Prepared	08/23/22 11:36 Analyzed	Dil Fa
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	92.4 ge Organics (Di Result <49.9 92.4	RO) (GC) Qualifier	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 01:06 08/23/22 01:06	Dil Fa
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	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 01:06	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)	92.4 ge Organics (Di Result <49.9 92.4 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 13:43 08/22/22 13:43 08/22/22 13:43 Prepared	08/23/22 11:36 Analyzed 08/23/22 01:06 08/23/22 01:06 08/23/22 01:06 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	92.4 ge Organics (Di Result <49.9 92.4 49.9 %Recovery	RO) (GC) Qualifier 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 01:06 08/23/22 01:06 08/23/22 01:06	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	92.4 ge Organics (Di Result <49.9 92.4 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 13:43 08/22/22 13:43 08/22/22 13:43 Prepared	08/23/22 11:36 Analyzed 08/23/22 01:06 08/23/22 01:06 08/23/22 01:06 Analyzed	Dil Fa
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 Method: 300.0 - Anions, Ion Chro	92.4 ge Organics (Di Result <49.9 92.4 <49.9 %Recovery 62 76 omatography -	RO) (GC) Qualifier 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 01:06 08/23/22 01:06 Analyzed 08/23/22 01:06	Dil Fa
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	92.4 ge Organics (Di Result <49.9 92.4 <49.9 %Recovery 62 76 omatography -	RO) (GC) Qualifier U Qualifier S1-	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	MDL	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 01:06 08/23/22 01:06 Analyzed 08/23/22 01:06	Dil Fa

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

Matrix: Solid

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0/4/2022

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2784-1

Lab Sample ID: 890-2784-7

SDG: Lea County NM

Client Sample ID: BH-166 (8')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 8

Method: 8021B	- Volatile Organic	Compounds ((GC) (Continued)

Surrogate	%Recovery Qu	ualifier	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	RTFX	- Total	RTFX	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) (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/K			08/23/22 11:36	1

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

08/22/22 13:43	08/23/22 01:27	1
08/22/22 13:43	08/23/22 01:27	1

Lab Sample ID: 890-2784-8

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualific		MDL Unit	D	Prepared	Analyzed	Dil 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

Mathadi 0004D	Valatile Overen	ic Compounds (GC)
Memoo: Auzib	- voianie Urdan	ic Compounds (GC)

Method: 8021B - Volatile Orga	nic Compounas ((GC)							
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

Method: Tota	I RTFX - '	Total BTFX	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00400	U	0.00400		ma/Ka			09/01/22 12:44	1

Method: 8015 NM - Dies	el Range Organics (DRO)	(GC)

Analyte	Result	Qualifier	RL	MDL I	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	-	mg/Kg			08/23/22 11:36	1

Lab Sample ID: 890-2784-8

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

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					5 5				
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 01:49	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 01:49	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
Oll 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

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Released to Imaging: 9/1/2023 3:25:35 PM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

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

M	ethod: 300.0 - Anions, Ion Chrom	natography -	Soluble							
Aı	nalyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
CI	hloride	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

Surrogate

o-Terphenyl

1-Chlorooctane

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 03:04	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:01	09/01/22 03:04	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:01	09/01/22 03:04	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/30/22 12:01	09/01/22 03:04	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/30/22 12:01	09/01/22 03:04	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/30/22 12:01	09/01/22 03:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				08/30/22 12:01	09/01/22 03:04	1
1,4-Difluorobenzene (Surr)	84		70 - 130				08/30/22 12:01	09/01/22 03:04	1
- Method: Total BTEX - Total BT	EX Calculation								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

7a.y.c								,u., _ u	
Total BTEX	<0.00404	U	0.00404		mg/Kg			09/01/22 12:44	1
Method: 8015 NM - Diesel Range O	rganics (DR	O) (GC)							
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
-		-0. (00)							
- Method: 8015B NM - Diesel Range	Organics (DI	RO) (GC)							
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	•	Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared 08/22/22 13:43	Analyzed 08/23/22 02:31	Dil Fac
Analyte	Result	Qualifier		MDL		<u>D</u>	<u>·</u>		Dil Fac
Analyte Gasoline Range Organics	Result	Qualifier		MDL		<u>D</u>	<u>·</u>		1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0	Qualifier U	50.0	MDL	mg/Kg	<u> </u>	08/22/22 13:43	08/23/22 02:31	Dil Fac 1

Method: 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	[D	Prepared	Analyzed	Dil Fac
Chloride	382		4.98		mg/Kg				08/29/22 05:54	1

Limits

70 - 130

70 - 130

%Recovery Qualifier

56 S1-

69 S1-

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Dil Fac

Analyzed

08/23/22 02:31

08/23/22 02:31

Prepared

08/22/22 13:43

08/22/22 13:43

Lab Sample ID: 890-2784-11

Client Sample Results

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

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 04:25	
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 04:25	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 04:25	
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/30/22 12:01	09/01/22 04:25	
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	09/01/22 04:25	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/30/22 12:01	09/01/22 04:25	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	130		70 - 130				08/30/22 12:01	09/01/22 04:25	
1,4-Difluorobenzene (Surr)	87		70 - 130				08/30/22 12:01	09/01/22 04:25	
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399		mg/Kg			09/01/22 12:44	
Analyte Total TPH		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
	<49.9	U	49 9		ma/Ka			08/23/22 11:36	
• •	<49.9		49.9		mg/Kg			08/23/22 11:36	
: Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)							
Method: 8015B NM - Diesel Ranç Analyte	ge Organics (Di	RO) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier		MDL		D	Prepared 08/22/22 13:43		Dil Fa
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (Di Result <49.9	RO) (GC) Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	08/22/22 13:43	Analyzed 08/23/22 03:14	Dil Fa
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (Di	RO) (GC) Qualifier	RL	MDL	Unit	<u>D</u>		Analyzed	Dil Fa
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	<u>D</u>	08/22/22 13:43	Analyzed 08/23/22 03:14	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)	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 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)	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 Fa
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** 57	Qualifier U Qualifier 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 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 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Chro	ge Organics (D) Result <49.9 <49.9 <49.9 **Recovery** 57 66	Qualifier 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 Fa
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 57 66 omatography -	Qualifier 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 Fa

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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Lab Sample ID: 890-2784-12

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Matrix: Solid

Lab Sample ID: 890-2784-12

Lab Sample ID: 890-2784-13

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

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 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)	84	70 - 130	08/30/22 12:01	09/01/22 04:46	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	< 0.00396	U	0.00396		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	75.0		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 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

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	70	70 - 130	08/22/22 13:	43 08/23/22 03:35	1
o-Terphenyl	84	70 - 130	08/22/22 13:	43 08/23/22 03:35	1

Method: 300.0 - Anions,	on Chromatography	· - Soluble
	_	

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	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)

Wethou. 002 ID - Volatile Orga	inc compounds	(00)							
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 05:06	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:01	09/01/22 05:06	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:01	09/01/22 05:06	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/30/22 12:01	09/01/22 05:06	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:01	09/01/22 05:06	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/30/22 12:01	09/01/22 05:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				08/30/22 12:01	09/01/22 05:06	1
1,4-Difluorobenzene (Surr)	80		70 - 130				08/30/22 12:01	09/01/22 05:06	1

M	ethod: Total BTE	K - Total BTFX	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 - 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			08/23/22 11:36	1

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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

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	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
					mg/Kg			08/29/22 06:17	

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

Client: Tetra Tech, Inc.
Project/Site: Kaiser SWD

Job ID: 890-2784-1 SDG: Lea County NM

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

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - 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')

Date Collected: 08/18/22 00:00

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

Analyte

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)			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	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	;
Method: 8015 NM - Diesel Range Organ	nics (DRO) (GC)							
Total BTEX	<0.00393 U	0.00393	mg/Kg		(09/01/22 12:44	1	

50.0

RL

MDL Unit

mg/Kg

Prepared

Analyzed

08/23/22 11:36

Result Qualifier

<50.0 U

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 04:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/22/22 13:43	08/23/22 04:38	1
OII 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 Chroma							
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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Dil Fac

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 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
Analyte Total TPH		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH								•	
	\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		<u>D</u>	Prepared 08/22/22 13:43		Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	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 04:59	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	D	08/22/22 13:43 08/22/22 13:43	Analyzed 08/23/22 04:59 08/23/22 04:59	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 04:59 08/23/22 04:59 08/23/22 04:59	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 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 04:59 08/23/22 04:59 08/23/22 04:59 Analyzed	Dil Face 1 Dil Face Dil Face 1 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	ge Organics (D Result <49.9 <49.9 <49.9 **Recovery 59 71	RO) (GC) Qualifier U U Qualifier 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 04:59 08/23/22 04:59 08/23/22 04:59 Analyzed 08/23/22 04:59	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 59 71 omatography -	RO) (GC) Qualifier U U Qualifier 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 04:59 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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Matrix: Solid

Lab Sample ID: 890-2784-17

08/23/22 05:21

08/22/22 13:43

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

Sample Depth: 4.5

Method: 8021B - Volatile Organic Con	noounds (GC)	(Continued)
motifical collision of gains con	ipodiido (OO)	(Continuou,

Surrogate		Qualifier Limit	Prepared Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	91	70 - 1	08/30/22 12:01	09/01/22 06:28	1

Mathod:	Total RTFY	- Total BTEX	Calculation
mictilou.	TOTAL DIEN	- IUIUI DI LA	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

Marthada 0045 NM Disaal Dawar Onnadiaa (DDO) (C	
Method: 8015 NM - Diesel Range Organics (DRO) (6	j()

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 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 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)									
Oll 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				08/22/22 13:43	08/23/22 05:21	1

1-Chlorooctane	58 S1-	70 - 130
o-Terphenyl	69 S1-	70 - 130

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	554		5.05		mg/Kg			08/29/22 08:00	1

Client Sample ID: BH-177 (4.5') Lab Sample ID: 890-2784-18 Date Collected: 08/18/22 00:00 **Matrix: Solid**

Date Received: 08/19/22 08:00

Sample Depth: 4.5

Method: 8021B -	Volatile	Organic (Compounds (GC)	

mounda. our ib volutile orga	ino compounds	(33)							
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: Tot	al RTFY -	Total RTFY	Calculation

Released to Imaging: 9/1/2023 3:25:35 PM

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

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

Client: Tetra Tech, Inc.
Project/Site: Kaiser SWD

Job ID: 890-2784-1

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

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Lab Sample ID: 890-2784-19

Matrix: Solid

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	<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
Chloride	1360		25.0		mg/Kg			08/29/22 08:07	5

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	1
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 BTEX	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)							
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
_	•	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed 08/23/22 11:36	Dil Fac
Analyte	Result <50.0	Qualifier U		MDL	Unit	<u>D</u>	Prepared		
Analyte Total TPH	Result <50.0	Qualifier U		MDL	Unit mg/Kg	<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <50.0	Qualifier U RO) (GC) Qualifier	50.0		Unit mg/Kg			08/23/22 11:36	1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <50.0 Ge Organics (Dige Result	Qualifier U RO) (GC) Qualifier U	50.0		Unit mg/Kg Unit		Prepared	08/23/22 11:36 Analyzed	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 (Di Result <50.0	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0		Unit mg/Kg Unit mg/Kg		Prepared 08/22/22 13:43	08/23/22 11:36 Analyzed 08/23/22 06:03	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	50.0 RL 50.0 50.0		Unit 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 06:03 08/23/22 06:03	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 <50.0	Qualifier U RO) (GC) Qualifier U U Qualifier	50.0 RL 50.0 50.0 50.0		Unit 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 06:03 08/23/22 06:03 08/23/22 06:03	1 Dil Fac 1 1

Lab Sample ID: 890-2784-19

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

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

	Method: 300.0 - Anions, Ion Chrom	atography -	Soluble							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Į	Chloride	632		5.02		mg/Kg			08/29/22 08:31	1

Client Sample ID: BH-179 (4.5')

Date Collected: 08/18/22 00:00

Lab Sample ID: 890-2784-20

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	<0.00201	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
1,4-Difluorobenzene (Surr)	90		70 - 130				08/30/22 12:01	09/01/22 07:29	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			09/01/22 12:44	1
Method: 8015 NM - Diesel Range	•	O) (GC) Qualifier	DI	MDI	Unit	D	Duamanad	Amalumad	Dil Fee
Analyte Total TPH			RL	MDL			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 06:24	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	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	60	S1-	70 - 130				08/22/22 13:43	08/23/22 06:24	1
			70 - 130				08/22/22 13:43	08/23/22 06:24	1
	75								
o-Terphenyl Method: 300.0 - Anions, Ion Chro		Soluble							
o-Terphenyl	omatography -	Soluble Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-2784-21

Client Sample Results

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 Fa
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	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:16	08/31/22 18:05	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/30/22 12:16	08/31/22 18:05	
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:16	08/31/22 18:05	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/30/22 12:16	08/31/22 18:05	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
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	
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			09/01/22 12:44	
Analyte Total TPH		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
IOIAI IFII			40.0		malka			00/22/22 11:26	
			49.9		mg/Kg			08/23/22 11:36	
	ge Organics (D	RO) (GC)							
Analyte	ge Organics (Di	RO) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier		MDL		D	Prepared 08/22/22 16:33		Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (Di Result <49.9	RO) (GC) Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	08/22/22 16:33	Analyzed 08/24/22 13:21	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (Di	RO) (GC) Qualifier	RL	MDL	Unit	<u>D</u>		Analyzed	Dil Fa
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	<u>D</u>	08/22/22 16:33	Analyzed 08/24/22 13:21	Dil Fa
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	RO) (GC) Qualifier U	RL 49.9	MDL	Unit mg/Kg mg/Kg	D	08/22/22 16:33 08/22/22 16:33	Analyzed 08/24/22 13:21 08/24/22 13:21	Dil Fa
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	RO) (GC) Qualifier U	RL 49.9 49.9 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	08/22/22 16:33 08/22/22 16:33 08/22/22 16:33	Analyzed 08/24/22 13:21 08/24/22 13:21 08/24/22 13:21	Dil Fa
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	RO) (GC) Qualifier U	RL 49.9 49.9 49.9 <i>Limits</i>	MDL	Unit mg/Kg mg/Kg	<u>D</u>	08/22/22 16:33 08/22/22 16:33 08/22/22 16:33 Prepared	Analyzed 08/24/22 13:21 08/24/22 13:21 08/24/22 13:21 Analyzed	Dil Fa
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 Method: 300.0 - Anions, Ion Chro	ge Organics (D) Result <49.9 <49.9 <49.9 **Recovery 117 114 **Domatography -	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>	08/22/22 16:33 08/22/22 16:33 08/22/22 16:33 Prepared 08/22/22 16:33	Analyzed 08/24/22 13:21 08/24/22 13:21 08/24/22 13:21 Analyzed 08/24/22 13:21	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	ge Organics (D) Result <49.9 <49.9 <49.9 **Recovery 117 114 **Domatography -	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>	08/22/22 16:33 08/22/22 16:33 08/22/22 16:33 Prepared 08/22/22 16:33	Analyzed 08/24/22 13:21 08/24/22 13:21 08/24/22 13:21 Analyzed 08/24/22 13:21	Dil Fa

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	

Eurofins Carlsbad

Matrix: Solid

Lab Sample ID: 890-2784-22

Lab Sample ID: 890-2784-22

Lab Sample ID: 890-2784-23

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

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 Or	ganic Compounds	(GC)	(Continued)	
mother colline of	garno compounac	1/	(Continuou)	

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	105	70 - 130	08/30/22 12:16	08/31/22 18:25	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 (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	- 1	D	Prepared	Analyzed	Dil Fac
Total TPH		<49.9	U	49.9		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	<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	114	70 - 130	
o-Terphenyl	110	70 - 130	

o-Terphenyl	110	70 - 130			08/22/22 16:33	08/24/22 14:26	1
Method: 300.0 - Anions, Ion Chromatogr	aphy - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifier	NL.	MIDE	Oilit	_	riepaieu	Allalyzeu	Dil Fac
Chloride	1560		25.1		mg/Kg			08/29/22 08:54	5

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

Method: 8021B -	Volatile Organic	c Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	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: To	otal BTEX -	Total BTEX	Calculation
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Analyte	Result	Qualifier	RL	MDL (Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	r	mg/Kg		_	09/01/22 12:44	1

н	Made al. COAF NIM Diana	D O! (DDO)	(00)
ı	Method: 8015 NM - Diese	Rande Ordanics (DRO)	1 ((=(.)
ı	Michiga. Colo IVIII Dicoc	range Organico (Bra	, , , , ,

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: 890-2784-23

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	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

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)							
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 08/23/22 11:36	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			08/23/22 11:36	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <49.9 ge Organics (D	Qualifier U RO) (GC) Qualifier U	49.9		mg/Kg		Prepared	08/23/22 11:36 Analyzed	1 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 08/22/22 16:33	08/23/22 11:36 Analyzed 08/24/22 15:17	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	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 16:33	08/23/22 11:36 Analyzed 08/24/22 15:17 08/24/22 15:17	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	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

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2784-1

SDG: Lea County NM

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

Lab Sample ID: 890-2784-24

Matrix: Solid

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') 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

(GRO)-C6-C10

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 19:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 19:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 19:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/30/22 12:16	08/31/22 19:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:16	08/31/22 19:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/30/22 12:16	08/31/22 19:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				08/30/22 12:16	08/31/22 19:26	1
1,4-Difluorobenzene (Surr)	109		70 - 130				08/30/22 12:16	08/31/22 19:26	1

Total BTEX	<0.00400	U	0.00400		mg/Kg			09/01/22 12:44	1
Method: 8015 NM - Diesel Ran	ge 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 Ra	inge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		ma/Ka		08/22/22 16:33	08/24/22 16:17	

MDL Unit

Prepared

Analyzed

Result Qualifier

C10-C28)	<50.0	U	50.0	mg/kg	06/22/22 16.33	06/24/22 16.17	ı
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	08/22/22 16:33	08/24/22 16:17	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130		08/22/22 16:33	08/24/22 16:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	898		5.05		mg/Kg			08/29/22 09:34	1

Client Sample Results

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 Sample Depth: 4.5

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-2784-26

Matrix: Solid

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 B	ΓEX 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 Rai	nge Organics (DR	O) (GC)							
	Posult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	ixesuit	Qualifici						•	

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac <49.9 U Gasoline Range Organics 49.9 mg/Kg 08/22/22 16:33 08/24/22 16:39 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 49.9 mg/Kg 08/22/22 16:33 08/24/22 16:39 C10-C28) OII Range Organics (Over C28-C36) <49.9 U 49.9 08/22/22 16:33 08/24/22 16:39 mg/Kg %Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed 70 - 130 08/22/22 16:33 08/24/22 16:39 1-Chlorooctane 116 70 - 130 08/22/22 16:33 08/24/22 16:39 o-Terphenyl 113

Method: 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier MDL Unit Analyte D RL Prepared Analyzed 5.01 Chloride 588 mg/Kg 08/29/22 09:42

Lab Sample ID: 890-2784-27

Matrix: Solid

Dil Fac

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Client Sample ID: BH-186 (4.5')

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Sample Depth: 4.5

REMOVED FROM ANALYSIS TABLE

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

Client Sample Results

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 Sample Depth: 4.5

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-2784-27

Matrix: Solid

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 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
Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	914		50.0		mg/Kg			08/23/22 11:36	1
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	
Gasoline Range Organics				MDL	Unit mg/Kg	<u>D</u>	Prepared 08/22/22 16:33	Analyzed 08/24/22 18:48	Dil Fac
<u> </u>				MDL		<u>D</u>			
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0	U	50.0	MDL	mg/Kg	<u>D</u>	08/22/22 16:33	08/24/22 18:48	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 914	U	50.0	MDL	mg/Kg	<u>D</u>	08/22/22 16:33 08/22/22 16:33	08/24/22 18:48 08/24/22 18:48	1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 914 <50.0	U	50.0 50.0 50.0	MDL	mg/Kg	<u>D</u>	08/22/22 16:33 08/22/22 16:33 08/22/22 16:33	08/24/22 18:48 08/24/22 18:48 08/24/22 18:48	1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0 914 <50.0 %Recovery	U	50.0 50.0 50.0 <i>Limits</i>	MDL	mg/Kg	<u>D</u>	08/22/22 16:33 08/22/22 16:33 08/22/22 16:33 Prepared	08/24/22 18:48 08/24/22 18:48 08/24/22 18:48 Analyzed	1 1 1 Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 914 <50.0 %Recovery 92 91	U Qualifier	50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg	<u>D</u>	08/22/22 16:33 08/22/22 16:33 08/22/22 16:33 Prepared 08/22/22 16:33	08/24/22 18:48 08/24/22 18:48 08/24/22 18:48 Analyzed 08/24/22 18:48	1 1 1 Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 914 <50.0 %Recovery 92 91 omatography -	U Qualifier	50.0 50.0 50.0 Limits 70 - 130		mg/Kg	<u>D</u>	08/22/22 16:33 08/22/22 16:33 08/22/22 16:33 Prepared 08/22/22 16:33	08/24/22 18:48 08/24/22 18:48 08/24/22 18:48 Analyzed 08/24/22 18:48	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client Sample ID: BH-187 (4.5') Lab Sample ID: 890-2784-28 **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 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 B	ΓEX 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 Rar	nge Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

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

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 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)									
OII 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							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	816		4.97		mg/Kg			08/29/22 10:13	1

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 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	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 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	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				08/22/22 16:33	08/24/22 17:23	1
o-Terphenyl	97		70 ₋ 130				08/22/22 16:33	08/24/22 17:23	1

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14

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2784-1

SDG: Lea County NM

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

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1360		25.0		mg/Kg			08/29/22 10:21	5

Client Sample ID: BH-189 (4.5') 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

o-Terphenyl

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
1,4-Difluorobenzene (Surr)	109		70 ₋ 130				08/30/22 12:16	08/31/22 22:59	1

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	<49.8	U	49.8		mg/Kg			08/23/22 11:36	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	<49.8	U	49.8	mg/Kg	08/22/22 16:33	08/24/22 17:44	1
(GRO)-C6-C10				5 5			
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg	08/22/22 16:33	08/24/22 17:44	1
C10-C28)							
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg	08/22/22 16:33	08/24/22 17:44	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130		08/22/22 16:33	08/24/22 17:44	1

Method: 300.0 - Anions, Ion Chron	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

70 - 130

93

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08/24/22 17:44

08/22/22 16:33

Client Sample Results

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

Sample Depth: 4.5 - 13

	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
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	Result	Qualifier	RL	MDL	Ullit	D	Prepared		
								Analyzed	DII Fa
Total TPH	151		49.9		mg/Kg			08/23/22 11:36	Dil Fa
Total TPH Method: 8015B NM - Diesel Ran		RO) (GC)	49.9		mg/Kg	_			
Method: 8015B NM - Diesel Rang Analyte	ge Organics (D	Qualifier	RL	MDL	Unit	D	Prepared	08/23/22 11:36 Analyzed	,
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	Qualifier		MDL		<u>D</u>		08/23/22 11:36	Dil Fa
Method: 8015B NM - Diesel Ran	ge Organics (D	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	08/23/22 11:36 Analyzed	Dil Fa
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D Result <49.9	Qualifier U	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared 08/22/22 16:33	08/23/22 11:36 Analyzed 08/24/22 20:15	Dil Fa
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	RL 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	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 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)	ge Organics (D) Result <49.9 151 <49.9	Qualifier U	RL 49.9 49.9 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	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 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	ge Organics (D) Result <49.9 151 <49.9 %Recovery	Qualifier U	RL 49.9 49.9 49.9 <i>Limits</i>	MDL	Unit mg/Kg mg/Kg	<u>D</u>	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
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	ge Organics (D) Result <49.9 151 <49.9 **Recovery 118 116	Qualifier U U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	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 Fa
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 <49.9 151 <49.9 %Recovery 118 116 romatography -	Qualifier U U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130		Unit mg/Kg mg/Kg	<u>D</u>	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	

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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Lab Sample ID: 890-2784-32

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Matrix: Solid

Lab Sample ID: 890-2784-32

08/22/22 16:33

08/24/22 18:06

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 - Vol	atile Organic Cor	npounds (GC	(Continued)
	atilo organio coi		, (-

Surrogate	%Recovery Qual	lifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	106	70 - 130	08/30/22 12:16	08/31/22 23:19	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 Organics (DRO) (GO	2)

Analyte	Result	Qualifier	RL	MDL	Unit	I	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		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	<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	
o-Terphenyl	113	70 - 130	

o-Terphenyl	113	70 - 130	08/22/22 16:33	08/24/22 18:06	1
Method: 300.0 - Anions, Ion Chromatogra	aphy - Soluble				

Allalyte	Result Qualifier	KL	WIDE OTHE	U	Prepareu	Allalyzeu	DII 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

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 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 BTEX - Total BTEX Calculation

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

Method: 8015 NM - Diesel Range Organics (DRO) (GC	Method: 8015 NM -	- Diesel Range	Organics (DRO)	(GC
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Analyte	Result Qi	ualifier 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: 890-2784-33

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

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 20:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/22/22 16:33	08/24/22 20:36	1
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
Chloride	951		5.04		mg/Kg			08/29/22 10:52	1

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	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		08/22/22 16:33	08/24/22 20:58	1
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 20:58	1
C10-C28)									
OII 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 Chrom	atography -	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') 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 Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:16	09/01/22 00:20	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:16	09/01/22 00:20	1
Ethylbenzene	0.0108		0.00201		mg/Kg		08/30/22 12:16	09/01/22 00:20	1
m-Xylene & p-Xylene	0.0209		0.00402		mg/Kg		08/30/22 12:16	09/01/22 00:20	1
o-Xylene	0.0251		0.00201		mg/Kg		08/30/22 12:16	09/01/22 00:20	1
Xylenes, Total	0.0460		0.00402		mg/Kg		08/30/22 12:16	09/01/22 00:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130				08/30/22 12:16	09/01/22 00:20	1
1,4-Difluorobenzene (Surr)	97		70 - 130				08/30/22 12:16	09/01/22 00:20	1
· Method: Total BTEX - Total BTE)	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0568		0.00402		mg/Kg			09/01/22 12:44	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1110		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	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	omatography -	Soluble							
	- "	Ouglition	DI.	ME	11	D	Duamanad	A I	D:: E
Analyte	Result	Qualifier	RL	MDL	Unit		Prepared	Analyzed	Dil Fac

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 BTEX	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	<49.9	U	49.9		mg/Kg			08/23/22 11:36	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Michiga, ou lob Min - Diesel Mang	, : 5 - : - :								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier	RL 49.9	MDL	Unit mg/Kg	D	Prepared 08/22/22 16:33	Analyzed 08/24/22 21:19	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U		MDL		<u>D</u>			1
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier U	49.9	MDL	mg/Kg	<u>D</u>	08/22/22 16:33	08/24/22 21:19	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 <49.9	Qualifier U U U	49.9	MDL	mg/Kg	<u>D</u>	08/22/22 16:33 08/22/22 16:33	08/24/22 21:19 08/24/22 21:19	1
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	Qualifier U U U	49.9 49.9 49.9	MDL	mg/Kg	<u>D</u>	08/22/22 16:33 08/22/22 16:33 08/22/22 16:33	08/24/22 21:19 08/24/22 21:19 08/24/22 21:19	1

Client Sample ID: SW-47 (0-5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Date Received. 00/13/22 00

Sample Depth: 0 - 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	09/01/22 01:01	1
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	1

RL

25.0

Result Qualifier

995

MDL Unit

mg/Kg

D

Prepared

Analyzed

08/29/22 15:20

Lab Sample ID: 890-2784-37

Dil Fac

Matrix: Solid

Job ID: 890-2784-1

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD SDG: Lea County NM Client Sample ID: SW-47 (0-5') Lab Sample ID: 890-2784-37

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 0 - 5

Method: 8021B - Volatile Organic Compound	s (GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	92	70 - 130	08/30/22 12:16	09/01/22 01:01	1

Method: Total	RTFX - Tota	I RTFX (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

П				
ı	Method: 8015 NM	Diocal Rand	no Organice	(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 - 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	<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
Oll 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	8/22/22 16:33	08/24/22 21:41	1
o-Terphenyl	112		70 - 130	08	8/22/22 16:33	08/24/22 21:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Q	ualifier 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 Co	mnolinas ((=(.)

method: 0021B - Volatile Organic Compounds (OC)								
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00199	U	0.00199		mg/Kg		08/30/22 12:16	09/01/22 01:21	1
<0.00199	U	0.00199		mg/Kg		08/30/22 12:16	09/01/22 01:21	1
<0.00199	U	0.00199		mg/Kg		08/30/22 12:16	09/01/22 01:21	1
<0.00398	U	0.00398		mg/Kg		08/30/22 12:16	09/01/22 01:21	1
<0.00199	U	0.00199		mg/Kg		08/30/22 12:16	09/01/22 01:21	1
<0.00398	U	0.00398		mg/Kg		08/30/22 12:16	09/01/22 01:21	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
99		70 - 130				08/30/22 12:16	09/01/22 01:21	1
97		70 - 130				08/30/22 12:16	09/01/22 01:21	1
	Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199 <0.00398 <0.00398 <0.00499 <0.00398 <0.00499 <0.00398 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499 <0.00499	Result Qualifier	Result Qualifier RL <0.00199	Result Qualifier RL MDL <0.00199	Result Qualifier RL MDL Unit <0.00199	Result Qualifier RL MDL Unit D <0.00199	Result Qualifier RL MDL Unit D Prepared <0.00199	Result Qualifier RL MDL Unit D Prepared Analyzed <0.00199

Mothod:	Total	DTEV	Total	DTEV	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00398	U	0.00398		ma/Ka			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	117	50.0	mg/Kg			08/23/22 11:36	1

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Lab Sample ID: 890-2784-38

Matrix: Solid

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	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 16:33	08/24/22 19:53	1
(GRO)-C6-C10									
Diesel Range Organics (Over	117		50.0		mg/Kg		08/22/22 16:33	08/24/22 19:53	1
C10-C28)									
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	omatography -	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 MDL	mg/Kg	<u>D</u>	Prepared Prepared		1
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 (GRO)-C6-C10 Diesel Range Organics (Over	Result 264 ge Organics (D Result	Qualifier RO) (GC) Qualifier	50.0		mg/Kg		Prepared	08/23/22 11:36 Analyzed	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	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	1 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 < 50.0 264	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	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) 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 1

Lab Sample ID: 890-2784-39

Client: Tetra Tech, Inc.

Job ID: 890-2784-1
Proiect/Site: Kaiser SWD

SDG: Lea County NM

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	natography -	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

Lab Sample ID: 890-2784-40

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	
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	Result	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	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	1
(GRO)-C6-C10								00/2 1/22 22:02	'
	<49.9	U	49.9		mg/Kg		08/22/22 16:33	08/24/22 22:02	
(GRO)-C6-C10 Diesel Range Organics (Over					mg/Kg mg/Kg		08/22/22 16:33 08/22/22 16:33		,
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9	U	49.9					08/24/22 22:02	,
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 <49.9	U	49.9 49.9				08/22/22 16:33	08/24/22 22:02 08/24/22 22:02	Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.9 <49.9 %Recovery	U	49.9 49.9 <i>Limits</i>				08/22/22 16:33 Prepared	08/24/22 22:02 08/24/22 22:02 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 **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 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		D	08/22/22 16:33 Prepared 08/22/22 16:33	08/24/22 22:02 08/24/22 22:02 Analyzed 08/24/22 22:02	Dil Fac

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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	X 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	e Organics (DR	, , ,	RI	MDI	Unit	n	Prenared	Analyzed	Dil Fac
•		O) (GC)							
•	e Organics (DR	Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/23/22 11:36	
Method: 8015 NM - Diesel Range Analyte Total TPH	e Organics (DR Result <50.0	Qualifier U		MDL		<u>D</u>	Prepared		
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang	e Organics (DR) Result <50.0 ge Organics (DI)	Qualifier U RO) (GC)	50.0		mg/Kg		· ·	08/23/22 11:36	1
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	e Organics (DR Result <50.0 ge Organics (DI Result	Qualifier U RO) (GC) Qualifier	50.0		mg/Kg	<u>D</u>	Prepared	08/23/22 11:36 Analyzed	1 Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang	e Organics (DR) Result <50.0 ge Organics (DI)	Qualifier U RO) (GC) Qualifier	50.0		mg/Kg		· ·	08/23/22 11:36	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 <50.0 ge Organics (DI Result	Qualifier U RO) (GC) Qualifier U	50.0		mg/Kg		Prepared	08/23/22 11:36 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	e Organics (DR Result <50.0 ge Organics (DI Result <50.0	Qualifier U RO) (GC) Qualifier U	50.0 RL 50.0		mg/Kg Unit mg/Kg		Prepared 08/23/22 10:46	08/23/22 11:36 Analyzed 08/24/22 23:07	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 <50.0 ge Organics (Di Result <50.0	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/23/22 10:46 08/23/22 10:46	08/23/22 11:36 Analyzed 08/24/22 23:07 08/24/22 23:07	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)	e Organics (DR Result <50.0 ge Organics (DI Result <50.0 <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 08/23/22 10:46 08/23/22 10:46 08/23/22 10:46	08/23/22 11:36 Analyzed 08/24/22 23:07 08/24/22 23:07	Dil Face 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	e Organics (DR Result <50.0 ge Organics (DR Result <50.0 <50.0 <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 08/23/22 10:46 08/23/22 10:46 08/23/22 10:46 Prepared	08/23/22 11:36 Analyzed 08/24/22 23:07 08/24/22 23:07 08/24/22 23:07 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	e Organics (DR Result <50.0 ge Organics (DI Result <50.0 <50.0 <50.0 <8ecovery 91 95	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 08/23/22 10:46 08/23/22 10:46 08/23/22 10:46 Prepared 08/23/22 10:46	08/23/22 11:36 Analyzed 08/24/22 23:07 08/24/22 23:07 Analyzed 08/24/22 23:07	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 U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 08/23/22 10:46 08/23/22 10:46 08/23/22 10:46 Prepared 08/23/22 10:46	08/23/22 11:36 Analyzed 08/24/22 23:07 08/24/22 23:07 Analyzed 08/24/22 23:07	Dil Face 1 Dil Face 1 1 Dil Face 1 Dil Face 1 Dil Face

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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Lab Sample ID: 890-2784-42

Matrix: Solid

Lab Sample ID: 890-2784-42

Lab Sample ID: 890-2784-43

Matrix: Solid

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')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 4.5 - 8

umpic Deptil. 4.0 - 0

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

 Surrogate
 %Recovery
 Qualifier
 Limits
 Prepared
 Analyzed
 Dil Factor

 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</td>
 U
 0.00394
 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</td>
 U
 50.0
 mg/Kg
 08/23/22 11:36
 1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac <50.0 U mg/Kg Gasoline Range Organics 50.0 08/23/22 10:46 08/24/22 23:29 (GRO)-C6-C10 <50.0 U 50.0 08/23/22 10:46 08/24/22 23:29 Diesel Range Organics (Over mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 08/23/22 10:46 08/24/22 23:29

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 74 70 - 130 08/23/22 10:46 08/24/22 23:29 08/23/22 10:46 76 70 - 130 08/24/22 23:29 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography - Soluble

 Analyte
 Result
 Qualifier
 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 Toluene <0.00200 U 0.00200 08/30/22 12:29 09/01/22 06:20 mg/Kg <0.00200 U 0.00200 08/30/22 12:29 09/01/22 06:20 Ethylbenzene mg/Kg 09/01/22 06:20 m-Xylene & p-Xylene <0.00399 U 0.00399 08/30/22 12:29 mg/Kg o-Xylene <0.00200 U 0.00200 mg/Kg 08/30/22 12:29 09/01/22 06:20 Xylenes, Total <0.00399 U 0.00399 mg/Kg 08/30/22 12:29 09/01/22 06:20 %Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed

 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-Diffuorobenzene (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</td>
 U
 0.00399
 mg/Kg
 09/01/22 12:44
 1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

 Analyte
 Result TPH
 Qualifier Qualifier
 RL Qualifier
 MDL Unit mg/Kg
 D Prepared Moderate
 Analyzed Moderate
 Dil Fac

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2

4

6

8

10

12

13

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		08/23/22 10:46	08/24/22 23:51	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		08/23/22 10:46	08/24/22 23:51	1
C10-C28)									
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
			5.03		mg/Kg			08/29/22 16:31	

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	0) (CC)							
	Organios (Bit	o) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/23/22 11:36	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				D_	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			08/23/22 11:36	1
Analyte	Result <49.9 ge Organics (D Result	Qualifier U RO) (GC) Qualifier U	49.9		mg/Kg		Prepared	08/23/22 11:36 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)	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 08/23/22 10:46	08/23/22 11:36 Analyzed 08/25/22 00:12	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 08/23/22 10:46 08/23/22 10:46	08/23/22 11:36 Analyzed 08/25/22 00:12 08/25/22 00:12	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 <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 08/23/22 10:46 08/23/22 10:46 08/23/22 10:46	08/23/22 11:36 Analyzed 08/25/22 00:12 08/25/22 00:12	1 Dil Fac

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

Client Sample ID: SW-58 (6-8') Lab Sample ID: 890-2784-45 **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 Fac
Benzene	<0.0100	U	0.0100		mg/Kg		08/30/22 12:29	09/01/22 09:42	5
Toluene	<0.0100	U	0.0100		mg/Kg		08/30/22 12:29	09/01/22 09:42	5
Ethylbenzene	<0.0100	U	0.0100		mg/Kg		08/30/22 12:29	09/01/22 09:42	5
m-Xylene & p-Xylene	<0.0200	U	0.0200		mg/Kg		08/30/22 12:29	09/01/22 09:42	5
o-Xylene	<0.0100	U	0.0100		mg/Kg		08/30/22 12:29	09/01/22 09:42	5
Xylenes, Total	<0.0200	U	0.0200		mg/Kg		08/30/22 12:29	09/01/22 09:42	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	45	S1-	70 - 130				08/30/22 12:29	09/01/22 09:42	5
1,4-Difluorobenzene (Surr)	127		70 - 130				08/30/22 12:29	09/01/22 09:42	5

Total BTEX	<0.0200	U	0.0200		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	8970		49.8		mg/Kg			08/23/22 11:36	1
Method: 8015B NM - Diesel Range	Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		08/23/22 10:46	08/25/22 00:33	1

MDL Unit

Prepared

Analyzed

Result Qualifier

96

1-Chlorooctane	93	70 - 130		08/23/22 10:46	08/25/22 00:33	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
C28-C36)						
Oll Range Organics (Over	1620	49.8	mg/Kg	08/23/22 10:46	08/25/22 00:33	1
C10-C28)						
Diesel Range Organics (Over	7350	49.8	mg/Kg	08/23/22 10:46	08/25/22 00:33	1
(GRO)-C6-C10			5 5			
Gasoline Range Organics	<49.8 U	49.8	mg/Kg	08/23/22 10:46	08/25/22 00:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	202		4.99		mg/Kg			08/29/22 17:03	1

70 - 130

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o-Terphenyl

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
Method: 8015 NM - Diesel Range	•		DI	MDI	llnit	Б	Dronored	Analyzad	Dil Eco
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 08/23/22 11:36	Dil Fac
Analyte	Result <50.0	Qualifier U RO) (GC)		MDL		<u>D</u>	Prepared		1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Result <50.0 Ge Organics (Dige Result)	Qualifier U RO) (GC) Qualifier	50.0	MDL MDL	mg/Kg	<u>D</u>	Prepared	08/23/22 11:36 Analyzed	1 Dil Fac
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
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <50.0 Ge Organics (Dige Result)	Qualifier U RO) (GC) Qualifier U	50.0		mg/Kg	<u> </u>	Prepared	08/23/22 11:36 Analyzed	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang 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	<u> </u>	Prepared 08/23/22 10:46	08/23/22 11:36 Analyzed 08/25/22 00:54	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	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 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	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) Oll Range Organics (Over C28-C36)	Result	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 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	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) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U RO) (GC) Qualifier U U	50.0 RL 50.0 50.0 50.0 Limits		mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 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 1 1 Dil Fac 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 U Qualifier	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg	<u> </u>	Prepared 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	1 Dil Fac 1 1 1 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) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	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	<u> </u>	Prepared 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	1 Dil Fac 1 Dil Fac 1

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	
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

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2784-1

SDG: Lea County NM

Client Sample ID: SW-60 (0-13') Lab Sample ID: 890-2784-47 Date Collected: 08/18/22 00:00

Matrix: Solid

Sample Depth: 0 - 13

Date Received: 08/19/22 08:00

Method: 8021B - Volatile Organ	nic Compounds	(GC)	(Continued)	
mothed collis	no compoundo	, – – ,	(00::::::::::::::::::::::::::::::::::::	

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99		70 - 130	08/30/22 12:29	09/01/22 07:21	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 (DRO) ((GC)
mothod: ou for this Bloods stange organico (Bito)	,,

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 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		08/23/22 10:46	08/25/22 01:16	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		08/23/22 10:46	08/25/22 01:16	1
C10-C28)									
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

Surroyate	Mecovery Qualifier	Liiiits	riepaieu	Allalyzeu	DII Fac
1-Chlorooctane	87	70 - 130	08/23/22 10:46	08/25/22 01:16	1
o-Terphenyl	91	70 - 130	08/23/22 10:46	08/25/22 01:16	1
_					

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL		Unit D	Prepared	Analyzed	Dil Fac
Chloride	2390	24.9	n	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

Method: 8021B - Volatile Organic Compounds (GC)

wethou: 6021B - Volatile Organ	ne 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 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 (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	76.1	50.0	mg/Kg			08/23/22 11:36	1

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Lab Sample ID: 890-2784-48

Matrix: Solid

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2784-1

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

Lab Sample ID: 890-2784-48

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 *1	50.0		mg/Kg		08/22/22 16:29	08/23/22 20:43	1
(GRO)-C6-C10									
Diesel Range Organics (Over	76.1		50.0		mg/Kg		08/22/22 16:29	08/23/22 20:43	1
C10-C28)									
Oll 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	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3730		49.8		mg/Kg			08/29/22 17:39	10

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**

Lab Sample ID: 890-2784-49

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 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	Organics (DR	O) (GC)							
A 1.4									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Total TPH	1570	Qualifier	49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/23/22 11:36	Dil Fac
Total TPH	1570	<u> </u>		MDL		<u>D</u>	Prepared		
Total TPH Method: 8015B NM - Diesel Ran	1570 ge Organics (D	<u> </u>		MDL	mg/Kg	<u>D</u> 	Prepared Prepared		
Total TPH Method: 8015B NM - Diesel Ran	1570 ge Organics (D	RO) (GC) Qualifier	49.9		mg/Kg			08/23/22 11:36	1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	1570 ge Organics (D Result	RO) (GC) Qualifier	49.9		mg/Kg		Prepared	08/23/22 11:36 Analyzed	1 Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (Di Result <49.9	RO) (GC) Qualifier U *1	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 08/22/22 16:29	08/23/22 11:36 Analyzed 08/23/22 22:50	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	1570 ge Organics (Di Result <49.9 1570	RO) (GC) Qualifier U *1	49.9 RL 49.9 49.9		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 22:50 08/23/22 22:50	1 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)	1570 ge Organics (Di Result <49.9 1570 49.9	RO) (GC) Qualifier U *1	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 08/22/22 16:29 08/22/22 16:29 08/22/22 16:29	08/23/22 11:36 Analyzed 08/23/22 22:50 08/23/22 22:50 08/23/22 22:50	1 Dil Fac 1 1

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

SDG: Lea County NM

RL

MDL Unit

Client Sample ID: SW-62 (8-13')

Method: 300.0 - Anions, Ion Chromatography - Soluble

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00 Sample Depth: 8 - 13

Analyte

REMOVED FROM ANALYSIS TABLE

Result Qualifier

561

Lab Sample ID: 890-2784-49

Analyzed

Prepared

Matrix: Solid

Dil Fac

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Chloride	825		5.01		mg/Kg			08/29/22 17:46	1
Client Sample ID: SW-63 (8-7 Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00 Sample Depth: 8 - 13	13')						Lab Sam	ple ID: 890-2 Matri	784-50 ix: Solid
		(0.0)							
Method: 8021B - Volatile Organic Analyte		(GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202		0.00202		mg/Kg		08/30/22 12:29	09/01/22 08:22	1
Toluene	<0.00202		0.00202		mg/Kg		08/30/22 12:29	09/01/22 08:22	1
Ethylbenzene	<0.00202		0.00202		mg/Kg		08/30/22 12:29	09/01/22 08:22	1
m-Xylene & p-Xylene	<0.00202		0.00403		mg/Kg		08/30/22 12:29	09/01/22 08:22	· · · · · · · · · · · · · · · · · · ·
o-Xylene	<0.00202		0.00202		mg/Kg		08/30/22 12:29	09/01/22 08:22	1
Xylenes, Total	<0.00403		0.00202		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
Method: Total BTEX - Total BTEX Analyte Total BTEX		Qualifier U	RL 0.00403	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 09/01/22 12:44	Dil Fac
			0.00403		mg/Kg			09/01/22 12:44	'
Method: 8015 NM - Diesel Range									
Analyte		Qualifier	RL	MDL		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 *1	49.9		mg/Kg		08/22/22 16:29	08/23/22 21:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/22/22 16:29	08/23/22 21:04	1
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
Method: 300.0 - Anions, Ion Chro									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

08/29/22 17:54

5.00

mg/Kg

Chloride

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	
Toluene	<0.00201	U	0.00201		mg/Kg		08/30/22 12:29	09/01/22 11:32	
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			RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
: Method: 8015 NM - Diesel Range						_			B.: F
Method: 8015 NM - Diesel Range Analyte		Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/23/22 11:36	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH	Result <50.0	Qualifier U		MDL		<u>D</u>	Prepared		Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <50.0 ge Organics (D	Qualifier U RO) (GC)	50.0		mg/Kg	=	· ·	08/23/22 11:36	1
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Result <50.0 ge Organics (D Result	Qualifier U RO) (GC) Qualifier	50.0	MDL	mg/Kg	<u>D</u>	Prepared	08/23/22 11:36 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <50.0 ge Organics (D	Qualifier U RO) (GC) Qualifier	50.0		mg/Kg	=	· ·	08/23/22 11:36	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0 ge Organics (D Result	Qualifier U RO) (GC) Qualifier U *1	50.0		mg/Kg Unit mg/Kg	=	Prepared	08/23/22 11:36 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte	Result <50.0 ge Organics (D) Result <50.0	Qualifier U RO) (GC) Qualifier U *1	50.0 RL 50.0		mg/Kg	=	Prepared 08/22/22 16:29	08/23/22 11:36 Analyzed 08/23/22 23:11	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 <50.0 ge Organics (D) 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
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 <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
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 <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 08/23/22 23:11	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 <50.0	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
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 <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 08/23/22 23:11 Analyzed 08/23/22 23:11	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*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 08/23/22 23:11 Analyzed 08/23/22 23:11	1 Dil Fac

Client Sample ID: SW-65 (8-10')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Date Received. 00/15/22 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	1

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Lab Sample ID: 890-2784-52

Matrix: Solid

Lab Sample ID: 890-2784-52

08/23/22 23:32

Lab Sample ID: 890-2784-53

Matrix: Solid

08/22/22 16:29

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: 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	<0.00400	U	0.00400		mg/Kg			09/01/22 12:44	1

-			
Mothod: 8015 NM -	Diesal Pance	Organics (DRO) (GC)	

Analyte	Result Qua	lifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			08/23/22 11:36	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 *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				08/22/22 16:29	08/23/22 23:32	1

1-Chlorooctane	96	70 - 130
o-Terphenyl	86	70 - 130

Method: 300.0 - Anions, Ion Chromatography - Soluble											
	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

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		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

Mothod:	Total RT	Y - Total I	RTEY Ca	lculation

Analyte	Result Qu	ualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396 U	0.00396	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: 890-2784-53

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							
						_			B.: E
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)							
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 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 Rang	Result <50.0	Qualifier U RO) (GC) Qualifier	50.0		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 <50.0 ge Organics (D 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 (D) 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 08/24/22 00:14	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 *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 08/24/22 00:14 08/24/22 00:14	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	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 08/24/22 00:14 08/24/22 00:14	

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2784-1

SDG: Lea County NM

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

Lab Sample ID: 890-2784-54

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result Q	Qualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	215	5.04		mg/Kg			08/29/22 09:12	1		

Client Sample ID: SW-68 (0-6') Lab Sample ID: 890-2784-55 **Matrix: Solid**

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Sample Depth: 0 - 6

Analyte

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	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:29	09/01/22 12:53	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:29	09/01/22 12:53	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		08/30/22 12:29	09/01/22 12:53	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/30/22 12:29	09/01/22 12:53	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		08/30/22 12:29	09/01/22 12:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				08/30/22 12:29	09/01/22 12:53	1
1,4-Difluorobenzene (Surr)	108		70 - 130				08/30/22 12:29	09/01/22 12:53	1

L	- Iotal BTEX	<0.00397	U	0.00397		mg/Kg			09/01/22 12:44	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/Kg			08/23/22 11:36	1
	Method: 8015B NM - Diesel Range							_		
	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 00:36	1

MDL Unit

Prepared

Analyzed

Result Qualifier

(GRO)-C6-C10							
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg	08/22/22 16:29	08/24/22 00:36	1
C10-C28)							
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	08/22/22 16:29	08/24/22 00:36	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130		08/22/22 16:29	08/24/22 00:36	1
o-Terphenyl	102		70 - 130		08/22/22 16:29	08/24/22 00:36	1
o respirently							

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	2210		24.9		mg/Kg			08/29/22 09:40	5

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 Fa
Benzene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:29	09/01/22 13:14	
Toluene	<0.00199	U	0.00199		mg/Kg		08/30/22 12:29	09/01/22 13:14	
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	
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 BTEX	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		RI	MDI	Unit	n	Prenared	Δnalvzed	Dil Fac
ି Method: 8015 NM - Diesel Range	e Organics (DR		DI.	MDI	Unit	ь	Dropored	Anglygod	Dil Eoo
• •	e Organics (DR	O) (GC) Qualifier	RL 50.0	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 08/23/22 11:36	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH	e Organics (DR Result 1890	Qualifier		MDL		<u>D</u>	Prepared		Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang	e Organics (DR) Result 1890 ge Organics (DI)	Qualifier RO) (GC)	50.0		mg/Kg	=	<u> </u>	08/23/22 11:36	1
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	e Organics (DR) Result 1890 ge Organics (DR) Result	Qualifier RO) (GC) Qualifier	50.0	MDL	mg/Kg	<u>D</u>	Prepared	08/23/22 11:36 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	e Organics (DR) Result 1890 ge Organics (DI)	Qualifier RO) (GC) Qualifier	50.0		mg/Kg	=	<u> </u>	08/23/22 11:36	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	e Organics (DR) Result 1890 ge Organics (DR) Result	Qualifier RO) (GC) Qualifier	50.0		mg/Kg	=	Prepared	08/23/22 11:36 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	ge Organics (DR Result 1890 ge Organics (DR Result <50.0	Qualifier RO) (GC) Qualifier	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 22:07	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	ge Organics (DR Result 1890 ge Organics (DR Result <50.0	Qualifier 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 22:07	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)	ge Organics (DR Result 1890 ge Organics (DI Result <50.0	Qualifier RO) (GC) Qualifier U*1	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 22:07 08/23/22 22:07	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)	ge Organics (DR Result 1890 ge Organics (DR Result <50.0 1890 <50.0	Qualifier RO) (GC) Qualifier U*1	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 22:07 08/23/22 22:07	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	ge Organics (DR Result 1890 ge Organics (DR Result <50.0 1890 <50.0	Qualifier RO) (GC) Qualifier U*1	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 22:07 08/23/22 22:07 08/23/22 22:07 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	ge Organics (DR Result 1890 ge Organics (DI Result <50.0 1890 <50.0 %Recovery 104 97	Qualifier 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 22:07 08/23/22 22:07 Analyzed 08/23/22 22:07	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	ge Organics (DR Result 1890 ge Organics (D Result < 50.0 1890 <50.0 %Recovery 104 97 omatography -	Qualifier 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 22:07 08/23/22 22:07 Analyzed 08/23/22 22:07	Dil Fac

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	

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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Lab Sample ID: 890-2784-57

Matrix: Solid

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 - 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)	92		70 - 130	08/30/22 12:29	09/01/22 14:35	20

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0800	U	0.0800		mg/Kg		_	09/01/22 12:44	1

Method: 8015 NM - Diesel Range C	Organics (DRO) (GC)						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1770	49.8	mg/K]		08/23/22 11:36	1

Method: 6015B NW - Diesei	Range Organics (DRO) (GC)
Analyte	Result Qualifier

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		08/22/22 16:29	08/23/22 22:29	1
Diesel Range Organics (Over C10-C28)	1770		49.8		mg/Kg		08/22/22 16:29	08/23/22 22:29	1
OII 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

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, Ion Chromatography - Soluble

Analyte	Result Qualifi	ier 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)

wethout ouz 16 - volatile Orga	nic 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

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

н	Made al. COAF NIM Diana	D O! (DDO)	(00)
ı	Method: 8015 NM - Diese	Rande Ordanics (DRO)	1 ((=(.)
ı	Michiga. Colo IVIII Dicoc	range Organico (Bra	, , , , ,

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: 890-2784-58

Client Sample Results

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-2784-1

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

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		08/22/22 16:29	08/24/22 00:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/22/22 16:29	08/24/22 00:57	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 16:29	08/24/22 00:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
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

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1460		24.9		mg/Kg			08/29/22 10:07	5

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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	
	/			

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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 Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2784-44	SW-57 (6-8')	88	104	
890-2784-45	SW-58 (6-8')	45 S1-	127	
890-2784-46	SW-59 (6-8')	91	99	
890-2784-47	SW-60 (0-13')	94	99	
890-2784-48	SW-61 (8-13')	94	100	
890-2784-49	SW-62 (8-13')	89	103	
890-2784-50	SW-63 (8-13')	102	101	
890-2784-51	SW-64 (8-10')	89	108	
890-2784-52	SW-65 (8-10')	94	105	
890-2784-53	SW-66 (8-10')	93	107	
890-2784-54	SW-67 (8-10')	91	105	
890-2784-55	SW-68 (0-6')	92	108	
390-2784-56	SW-69 (0-6')	96	101	
890-2784-57	SW-70 (0-4.5')	94	92	
890-2784-58	SW-71 (0-4.5')	93	110	
LCS 880-33358/1-A	Lab Control Sample	115	107	
LCS 880-33361/1-A	Lab Control Sample	92	103	
LCS 880-33362/1-A	Lab Control Sample	93	95	
LCSD 880-33358/2-A	Lab Control Sample Dup	111	107	
LCSD 880-33361/2-A	Lab Control Sample Dup	82	105	
LCSD 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	
MB 880-33362/5-A	Method Blank	82	107	
MB 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)
		1001	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-	
390-2784-2	BH-124 (8')	58 S1-	71	
390-2784-3	BH-132 (8')	67 S1-	80	
890-2784-4	BH-159 (8')	69 S1-	82	
890-2784-5	BH-162 (8')	68 S1-	82	
390-2784-6	BH-164 (8')	62 S1-	76	
890-2784-7	BH-166 (8')	59 S1-	71	
390-2784-8	BH-167 (8')	61 S1-	70	
390-2784-9	BH-168 (5')	60 S1-	71	
390-2784-10	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	106	
890-2784-41	SW-54 (0-4.5')	91	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')			
890-2784-47	SW-60 (0-13')	114 87	115 91	
890-2784-48	, ,	97		
	SW-61 (8-13')		88	
890-2784-49	SW-62 (8-13') SW-63 (8-13')	97	92	
890-2784-50	, ,	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	
LCS 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 = 0-Ternhenyl				

OTPH = o-Terphenyl

Job ID: 890-2784-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-33358/5-A

Lab Sample ID: LCS 880-33358/1-A

Lab Sample ID: LCSD 880-33358/2-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 33411

Analysis Batch: 33411

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	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 12:01	08/31/22 23:38	
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

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33358

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits mg/Kg Benzene 0.100 0.09998 100 70 - 130 Toluene 0.100 0.09209 mg/Kg 92 70 - 130 0.100 0.09252 Ethylbenzene mg/Kg 93 70 - 130 0.200 0.1909 95 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 70 - 130 o-Xylene 0.1112 mg/Kg 111

LCS LCS

Surrogate	%Recovery Qualifier	r Limits
4-Bromofluorobenzene (Surr)	115	70 - 130
1,4-Difluorobenzene (Surr)	107	70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 33358

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.09401 mg/Kg 94 70 - 130 6 35 Toluene 0.100 0.08558 mg/Kg 86 70 - 130 35 Ethylbenzene 0.100 0.08674 mg/Kg 87 70 - 130 6 35 0.200 m-Xylene & p-Xylene 0.1790 mg/Kg 90 70 - 130 35 0.100 0.1032 o-Xylene mg/Kg 103 70 - 130 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	

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Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD SDG: Lea County NM

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
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
<0.00198	U	0.100	0.08882		mg/Kg		89	70 - 130	1	35
<0.00198	U	0.100	0.08598		mg/Kg		86	70 - 130	1	35
<0.00198	U	0.100	0.09412		mg/Kg		94	70 - 130	1	35
<0.00397	U	0.200	0.1897		mg/Kg		95	70 - 130	1	35
<0.00198	U	0.100	0.1170		mg/Kg		117	70 - 130	1	35
	Result <0.00198 <0.00198 <0.00198 <0.00397	Sample Sample Result Qualifier	Result Qualifier Added <0.00198	Result Qualifier Added Result <0.00198	Result Qualifier Added Result Qualifier <0.00198	Result Qualifier Added Result Qualifier Unit <0.00198	Result Qualifier Added Result Qualifier Unit D <0.00198	Result Qualifier Added Result Qualifier Unit D %Rec <0.00198	Result Qualifier Added Result Qualifier Unit D %Rec Limits <0.00198	Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD <0.00198

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

	IIID	IVID							
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

MB MB

Surrogate	%Recovery 0	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. Job ID: 890-2784-1 Project/Site: Kaiser SWD 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

١		Spike	LCS	LCS				%Rec	
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	o-Xylene	0.100	0.09507		mg/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 Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 33465 Prep Batch: 33361

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1086		mg/Kg		109	70 - 130	3	35
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
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') Matrix: Solid**

Prep Type: Total/NA Analysis Batch: 33465 Prep Batch: 33361 Comple Comple Cnika

	Sample	Sample	эріке	IVIO	IVIS				%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								
	IVIS	IVI S								

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

Analysis Daton, 33403									ı iep	Daten.	JJJU 1
	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

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Prep Type: Total/NA

Prep Batch: 33361

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: 890-2784-21 MSD **Matrix: Solid**

Matrix: Solid

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

Analysis Batch: 33465

Client Sample ID: BH-180 (4.5')

Prep Type: Total/NA

Prep Batch: 33361

MSD MSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 98 70 - 130 1,4-Difluorobenzene (Surr) 103 70 - 130

Client Sample ID: Method Blank

09/01/22 05:11

Prep Type: Total/NA

Prep Batch: 33362

Lab Sample ID: MB 880-33362/5-A

Analysis Batch: 33465

MB MB Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac <0.00200 U 0.00200 08/30/22 12:29 09/01/22 05:11 mg/Kg <0.00200 U 0.00200 mg/Kg 08/30/22 12:29 09/01/22 05:11 <0.00200 U 0.00200 08/30/22 12:29 09/01/22 05:11 mg/Kg <0.00400 U 0.00400 mg/Kg 08/30/22 12:29 09/01/22 05:11 <0.00200 U 0.00200 mg/Kg 08/30/22 12:29 09/01/22 05:11

mg/Kg

MB MB

<0.00400 U

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82	70 - 130	08/30/22 12:29	09/01/22 05:11	1
1,4-Difluorobenzene (Surr)	107	70 - 130	08/30/22 12:29	09/01/22 05:11	1

0.00400

Client Sample ID: Lab Control Sample Prep Type: Total/NA

08/30/22 12:29

Lab Sample ID: LCS 880-33362/1-A **Matrix: Solid**

Lab Sample ID: LCSD 880-33362/2-A

Matrix: Solid

Analysis Batch: 33465							Prep E	Batch: 33362
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08954		mg/Kg		90	70 - 130	
Toluene	0.100	0.09540		mg/Kg		95	70 - 130	
Ethylbenzene	0.100	0.09384		mg/Kg		94	70 - 130	
m-Xylene & p-Xylene	0.200	0.1720		mg/Kg		86	70 - 130	
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

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 33362

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)	90	

Client: Tetra Tech, Inc. Job ID: 890-2784-1 Project/Site: Kaiser SWD 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')

Analysis Batch: 33465

Matrix: Solid Prep Type: Total/NA

Prep Batch: 33362

Sample	Sample	Spike	MS	MS				%Rec	
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
<0.00202	U	0.101	0.1030		mg/Kg		102	70 - 130	
<0.00202	U	0.101	0.09919		mg/Kg		99	70 - 130	
<0.00202	U	0.101	0.09015		mg/Kg		90	70 - 130	
<0.00403	U	0.201	0.1615		mg/Kg		80	70 - 130	
<0.00202	U	0.101	0.08797		mg/Kg		87	70 - 130	
	Result <0.00202 <0.00202 <0.00202 <0.00202 <0.00403	Sample Sample Result Qualifier <0.00202	Result Qualifier Added <0.00202	Result Qualifier Added Result <0.00202	Result Qualifier Added Result Qualifier <0.00202	Result Qualifier Added Result Qualifier Unit <0.00202	Result Qualifier Added Result Qualifier Unit D <0.00202	Result Qualifier Added Result Qualifier Unit D %Rec <0.00202	Result Qualifier Added Result Qualifier Unit D %Rec Limits <0.00202

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

Released to Imaging: 9/1/2023 3:25:35 PM

l		MB	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

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyz	zed 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

Eurofins Carlsbad

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)

Lab Sample ID: MB 880-32669/1-A

Analysis Batch: 32586

Matrix: Solid

	Client Sample ID: Method Blank
	Prep Type: Total/NA
	Prep Batch: 32669
MD MD	

	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
	MB	MB							

	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

Lab Sample ID: LCS 880-32669/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 32586

C10-C28)

Prep Batch: 32669 LCS LCS Spike Added Result Qualifier Analyte Unit D %Rec Limits Gasoline Range Organics 1000 719.7 mg/Kg 72 70 - 130 (GRO)-C6-C10 1000 Diesel Range Organics (Over 892.1 mg/Kg 89 70 - 130

LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 73 70 - 130 o-Terphenyl 84 70 - 130

Lab Sample ID: LCSD 880-32669/3-A

Matrix: Solid

Analysis Batch: 32586

-	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

Analysis Batch: 32586

	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)										

Eurofins Carlsbad

Prep Type: Total/NA

Prep Batch: 32669

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32669

Job ID: 890-2784-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Limits

70 - 130

70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

MS MS

51 S1-

55 S1-

%Recovery Qualifier

Lab Sample ID: 890-2784-1 MS

Matrix: Solid

Surrogate

o-Terphenyl

1-Chlorooctane

Analysis Batch: 32586

Client Sample ID: BH-120 (8') Prep Type: Total/NA

Prep Batch: 32669

Lab Sample ID: 890-2784-1 MSD Client Sample ID: BH-120 (8')

Prep Batch: 32713

Matrix: Solid Prep Type: Total/NA 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 <49.9 UF1 998 58 578.2 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** Prep Type: Total/NA

Analysis Batch: 32730

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 16:29	08/23/22 15:45	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		08/22/22 16:29	08/23/22 15:45	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 16:29	08/23/22 15:45	1
	Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	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)	Gasoline Range Organics	Gasoline Range Organics	Gasoline Range Organics <50.0 U 50.0 mg/Kg (GRO)-C6-C10 Oissel Range Organics (Over <50.0	Gasoline Range Organics	Gasoline Range Organics <50.0 U 50.0 mg/Kg 08/22/22 16:29 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 08/22/22 16:29 C10-C28)	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)

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 70 - 130 94 08/22/22 16:29 08/23/22 15:45 o-Terphenyl

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

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits D 1000 Gasoline Range Organics 819.0 82 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 925.9 93 70 - 130 mg/Kg

C10-C28)

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	516	S1+	70 - 130
o-Terphenvl	484	S1+	70 - 130

Lab Sample ID: LCSD 880-32713/3-A

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)

LCSD LCSD

MS MS

Qualifier

%Recovery

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 32713

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1054	*1	mg/Kg		105	70 - 130	25	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1016		mg/Kg		102	70 - 130	9	20
C10-C28)									

%Recovery Qualifier Limits

548 S1+ 70 - 130 1-Chlorooctane o-Terphenyl 524 S1+ 70 - 130

Lab Sample ID: 890-2786-A-2-C MS

Matrix: Solid

Surrogate

Matrix: Solid

Analysis Batch: 32730

Analysis Batch: 32730

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 32713

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits 999 Gasoline Range Organics <49.9 U*1 770.6 mg/Kg 76 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 999 934.1 mg/Kg 91 70 - 130 C10-C28)

Limits

1-Chlorooctane 96 70 - 130 o-Terphenyl 74 70 - 130

Lab Sample ID: 890-2786-A-2-D MSD

Lab Sample ID: MB 880-32714/1-A

Matrix: Solid

Surrogate

Analysis Batch: 32730

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 32713

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit <49.9 U *1 998 78 20 Gasoline Range Organics 789.4 70 - 130 2 mg/Kg (GRO)-C6-C10 998 953.1 93 70 - 130 20 Diesel Range Organics (Over <49.9 LI mg/Kg 2 C10-C28)

Matrix: Solid

Analysis Batch: 32806

MSD MSD Qualifier Limits Surrogate %Recovery 1-Chlorooctane 89 70 - 130 74 70 - 130 o-Terphenyl

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32714

MB MB MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 08/22/22 16:33 08/24/22 11:55 mg/Kg (GRO)-C6-C10 08/22/22 16:33 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 08/24/22 11:55 C10-C28) 08/22/22 16:33 50.0 OII Range Organics (Over C28-C36) <50.0 U 08/24/22 11:55 mg/Kg

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 Prep Type: Total/NA Analysis Batch: 32806 Prep Batch: 32714

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 1006 101 70 - 130 mg/Kg (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

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 1000 Diesel Range Organics (Over 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	Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	89		70 - 130

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 **Client Sample ID: BH-180 (4.5')**

Prep Type: Total/NA

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	109		70 - 130
o-Terphenyl	88		70 - 130

Lab Sample ID: MB 880-32774/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 32808

мв мв

Prep Type: Total/NA

Prep Batch: 32774

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)									
Oll 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

Client Sample ID:	Lab Control Sample
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Prep Type: Total/NA

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

Client Sample ID	: Lab Control	Sample	Dup
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Prep Type: Total/NA

Prep 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)										

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

Prep Type: Total/NA

Prep Batch: 32774

LCSD LCSD

Surrogate %Recovery Qualifier 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

Analysis Batch: 32808

Prep Type: Total/NA 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 Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 32808

Prep Type: Total/NA

Prep Batch: 32774

MSD MSD Sample Sample Spike RPD Added Result Qualifier Analyte Result Qualifier Unit %Rec I imits 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

мв мв

MDL Unit Dil Fac Analyte Result Qualifier RL 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 Limits Chloride 250 248.2 mg/Kg 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')

Matrix: Solid Prep Type: Soluble

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**

LCS LCS

Matrix: Solid

Analysis Batch: 33168

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 **Prep Type: Soluble**

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 RPD Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 329 248 563.7 mg/Kg 95 90 - 110 20

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Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: BH-183 (4.5')

Client Sample ID: BH-183 (4.5')

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Client Sample ID: SW-44 (4.5-8')

Client Sample ID: SW-44 (4.5-8')

Client Sample ID: SW-57 (6-8')

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

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: 890-2784-24 MS

Analysis Batch: 33168

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	1050		249	1247	4	mg/Kg		78	90 - 110	

Lab Sample ID: 890-2784-24 MSD

Matrix: Solid

Matrix: Solid

Analysis Batch: 33168

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	1050		249	1247	4	mg/Kg		78	90 - 110	0	20

Lab Sample ID: MB 880-32584/1-A

Matrix: Solid

Analysis Batch: 33169

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Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 U	5.00	mg/Kg			08/29/22 14:25	1

Lab Sample ID: LCS 880-32584/2-A

Matrix: Solid

Analysis Batch: 33169

	Spike	LCS	LCS			%Rec	
Analyte	Added	Result	Qualifier Unit	D	%Rec	Limits	
Chloride	250	251.5	mg/Kg		101	90 - 110	

Lab Sample ID: LCSD 880-32584/3-A

Matrix: Solid

Analysis Batch: 33169

	Spike	LCSD	LCSD				70KeC		KPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	252.0		mg/Kg		101	90 - 110	0	20	

Lab Sample ID: 890-2784-34 MS

Matrix: Solid

Analysis Batch: 33169

_	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	955	F2 F1	252	1151	F1	ma/Ka	_	78	90 110	

Lab Sample ID: 890-2784-34 MSD

Matrix: Solid

Analysis Batch: 33169

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	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	955	F2 F1	252	1151	F1	mg/Kg		78	90 - 110	0	20

Lab Sample ID: 890-2784-44 MS

Matrix: Solid

Analysis Batch: 33169										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	65.5		250	323.5		mg/Kg		103	90 - 110	

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

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: 890-2784-44 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

Result Qualifier MDL Unit Analyte RL Prepared Analyzed Dil Fac 08/29/22 08:44 Chloride <5.00 U 5.00 mg/Kg

Lab Sample ID: LCS 880-32585/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 33170

		Spike	LCS	LCS				%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride		250	250.5		mg/Kg		100	90 - 110	

Lab Sample ID: LCSD 880-32585/3-A

Matrix: Solid

Analysis Batch: 33170

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	248.0		mg/Kg		99	90 - 110	1	20

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		ma/Ka		105	90 - 110		_

Lab Sample ID: 890-2784-54 MSD

Matrix: Solid

Analysis Batch: 33170

Analysis Baton, some												
	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.

Project/Site: Kaiser SWD

Job ID: 890-2784-1

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	
390-2784-25	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	
390-2784-28	BH-187 (4.5')	Total/NA	Solid	5035	
390-2784-29	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	
390-2784-32	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	
390-2784-35	SW-45 (0-8')	Total/NA	Solid	5035	
390-2784-36	SW-46 (0-5')	Total/NA	Solid	5035	
890-2784-37	SW-47 (0-5')	Total/NA	Solid	5035	
390-2784-38	SW-48 (6-8')	Total/NA	Solid	5035	
390-2784-39	SW-49 (4.5-6')	Total/NA	Solid	5035	
390-2784-40	SW-53 (0-8')	Total/NA	Solid	5035	
MB 880-33361/5-A	Method Blank	Total/NA	Solid	5035	
_CS 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.

Project/Site: Kaiser SWD

Job ID: 890-2784-1

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

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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: 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 Bate
890-2784-21	BH-180 (4.5')	Total/NA	Solid	8021B	3336
890-2784-22	BH-181 (4.5')	Total/NA	Solid	8021B	3336
390-2784-23	BH-182 (4.5')	Total/NA	Solid	8021B	3336
390-2784-24	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	3330
890-2784-27	BH-186 (4.5')	Total/NA	Solid	8021B	3336
890-2784-28	BH-187 (4.5')	Total/NA	Solid	8021B	3330
890-2784-29	BH-188 (4.5')	Total/NA	Solid	8021B	333
890-2784-30	BH-189 (4.5')	Total/NA	Solid	8021B	333
890-2784-31	SW-38 (4.5-13')	Total/NA	Solid	8021B	3330
890-2784-32	SW-42 (4.5-8')	Total/NA	Solid	8021B	3330
890-2784-33	SW-43 (6-8')	Total/NA	Solid	8021B	3330
890-2784-34	SW-44 (4.5-8')	Total/NA	Solid	8021B	333
890-2784-35	SW-45 (0-8')	Total/NA	Solid	8021B	333
890-2784-36	SW-46 (0-5')	Total/NA	Solid	8021B	333
890-2784-37	SW-47 (0-5')	Total/NA	Solid	8021B	333
390-2784-38	SW-48 (6-8')	Total/NA	Solid	8021B	333
890-2784-39	SW-49 (4.5-6')	Total/NA	Solid	8021B	333
890-2784-40	SW-53 (0-8')	Total/NA	Solid	8021B	333
890-2784-41	SW-54 (0-4.5')	Total/NA	Solid	8021B	333
890-2784-42	SW-55 (4.5-8')	Total/NA	Solid	8021B	333
890-2784-43	SW-56 (0-4.5')	Total/NA	Solid	8021B	333
390-2784-44	SW-57 (6-8')	Total/NA	Solid	8021B	333
890-2784-45	SW-58 (6-8')	Total/NA	Solid	8021B	333
390-2784-46	SW-59 (6-8')	Total/NA	Solid	8021B	333
390-2784-47	SW-60 (0-13')	Total/NA	Solid	8021B	333
890-2784-48	SW-61 (8-13')	Total/NA	Solid	8021B	333
890-2784-49	SW-62 (8-13')	Total/NA	Solid	8021B	333
890-2784-50	SW-63 (8-13')	Total/NA	Solid	8021B	333
890-2784-51	SW-64 (8-10')	Total/NA	Solid	8021B	333
890-2784-52	SW-65 (8-10')	Total/NA	Solid	8021B	333
390-2784-53	SW-66 (8-10')	Total/NA	Solid	8021B	333
390-2784-54	SW-67 (8-10')	Total/NA	Solid	8021B	333
390-2784-55	SW-68 (0-6')	Total/NA	Solid	8021B	333
390-2784-56	SW-69 (0-6')	Total/NA	Solid	8021B	333
390-2784-57	SW-70 (0-4.5')	Total/NA	Solid	8021B	333
390-2784-58	SW-71 (0-4.5')	Total/NA	Solid	8021B	333
MB 880-33361/5-A	Method Blank	Total/NA	Solid	8021B	333
MB 880-33362/5-A	Method Blank	Total/NA	Solid	8021B	333
_CS 880-33361/1-A	Lab Control Sample	Total/NA	Solid	8021B	333
LCS 880-33362/1-A	Lab Control Sample	Total/NA	Solid	8021B	333

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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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Job ID: 890-2784-1 Client: Tetra Tech, Inc. 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 Batch
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	

Client: Tetra Tech, Inc.

Job ID: 890-2784-1

Project/Site: Kaiser SWD

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	
890-2784-25	BH-184 (4.5')	Total/NA	Solid	8015 NM	
390-2784-26	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	
890-2784-45	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

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

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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	
90-2784-22	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 Batcl
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	

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-2784-1

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
890-2784-25	BH-184 (4.5')	Soluble	Solid	300.0	32583
890-2784-26	BH-185 (4.5')	Soluble	Solid	300.0	32583
890-2784-27	BH-186 (4.5')	Soluble	Solid	300.0	32583
890-2784-28	BH-187 (4.5')	Soluble	Solid	300.0	32583
890-2784-29	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
890-2784-14 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 Batcl
890-2784-34	SW-44 (4.5-8')	Soluble	Solid	300.0	32584
890-2784-35	SW-45 (0-8')	Soluble	Solid	300.0	32584
890-2784-36	SW-46 (0-5')	Soluble	Solid	300.0	32584
890-2784-37	SW-47 (0-5')	Soluble	Solid	300.0	32584
890-2784-38	SW-48 (6-8')	Soluble	Solid	300.0	32584
890-2784-39	SW-49 (4.5-6')	Soluble	Solid	300.0	32584
890-2784-40	SW-53 (0-8')	Soluble	Solid	300.0	32584
890-2784-41	SW-54 (0-4.5')	Soluble	Solid	300.0	32584
890-2784-42	SW-55 (4.5-8')	Soluble	Solid	300.0	32584
890-2784-43	SW-56 (0-4.5')	Soluble	Solid	300.0	32584
890-2784-44	SW-57 (6-8')	Soluble	Solid	300.0	32584
890-2784-45	SW-58 (6-8')	Soluble	Solid	300.0	32584
890-2784-46	SW-59 (6-8')	Soluble	Solid	300.0	32584
890-2784-47	SW-60 (0-13')	Soluble	Solid	300.0	32584
890-2784-48	SW-61 (8-13')	Soluble	Solid	300.0	32584
890-2784-49	SW-62 (8-13')	Soluble	Solid	300.0	32584
890-2784-50	SW-63 (8-13')	Soluble	Solid	300.0	32584
890-2784-51	SW-64 (8-10')	Soluble	Solid	300.0	32584
890-2784-52	SW-65 (8-10')	Soluble	Solid	300.0	32584
890-2784-53	SW-66 (8-10')	Soluble	Solid	300.0	32584
MB 880-32584/1-A	Method Blank	Soluble	Solid	300.0	32584
LCS 880-32584/2-A	Lab Control Sample	Soluble	Solid	300.0	32584
LCSD 880-32584/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	32584
890-2784-34 MS	SW-44 (4.5-8')	Soluble	Solid	300.0	32584
890-2784-34 MSD	SW-44 (4.5-8')	Soluble	Solid	300.0	32584
890-2784-44 MS	SW-57 (6-8')	Soluble	Solid	300.0	32584
890-2784-44 MSD	SW-57 (6-8')	Soluble	Solid	300.0	32584

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

Client Sample ID: BH-120 (8')

Date Received: 08/19/22 08:00

Lab Sample ID: 890-2784-1 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 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 33551 09/01/22 12:44 SM **EET MID** 8015 NM Total/NA Analysis 1 32780 08/23/22 11:36 SM **EET MID** 10 mL 32669 08/22/22 13:43 EET MID Total/NA 8015NM Prep 10.02 g DM Prep Total/NA Analysis 8015B NM 32586 08/22/22 22:36 SM **EET MID** 4.99 g 50 mL 32582 08/21/22 19:23 SMC Soluble DI Leach FFT MID Leach Soluble Analysis 300.0 5 0 mL 0 mL 33167 08/29/22 04:12 СН **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

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 33358 08/30/22 12:01 EL EET MID Total/NA 8021B Analysis 1 5 mL 5 mL 33411 09/01/22 00:20 MR EET MID Total/NA Total BTEX 09/01/22 12:44 Analysis 33551 SM **EET MID** 1 Total/NA Analysis 8015 NM 32780 08/23/22 11:36 SM **EET MID** 32669 Total/NA 8015NM Prep 10.03 g 08/22/22 13:43 DM FFT MID Prep 10 mL Total/NA Analysis 8015B NM 32586 08/22/22 23:41 SM **EET MID** Soluble DI Leach 4.98 g 50 mL 32582 08/21/22 19:23 SMC **EET MID** Leach 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

Client Sample ID: BH-159 (8')

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			5.02 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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Lab Sample ID: 890-2784-4

Client: Tetra Tech, Inc.
Project/Site: Kaiser SWD

Lab Sample ID: 890-2784-4

Client Sample ID: BH-159 (8')
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		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 00:24	SM	EET MID
Soluble	Leach	DI Leach			5 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 04:35	CH	EET MID

Lab Sample ID: 890-2784-5

Date Collected: 08/18/22 00:00

Client Sample ID: BH-162 (8')

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 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	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	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 01:27	SM	EET MID

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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	Туре	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') Lab Sample ID: 890-2784-8

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	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**

	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 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 Date Received: 08/19/22 08:00

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			4.95 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')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00 Lab Sample ID: 890-2784-11

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			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 04:25	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 03:14	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 06:02	CH	EET MID

Client Sample ID: BH-171 (5')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Lab Sample ID: 890-2784-12

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	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

Date Received: 08/19/22 08:00

Lab Sample	D: 890-	2784-13
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	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 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

Date Received: 08/19/22 08:00

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	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

Lab Sample ID: 890-2784-14

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			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

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			5.09 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 **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 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

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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	Туре	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 **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			4.96 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

Lab Sample ID: 890-2784-20

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	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')

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	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	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	08/31/22 19:06	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33551	09/01/22 12:44	SM	EET MID

Client Sample ID: BH-183 (4.5')

Job ID: 890-2784-1 SDG: Lea County NM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Lab Sample ID: 890-2784-24

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	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 15:17	SM	EET MID
Soluble	Leach	DI Leach			5.03 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 09:10	CH	EET MID

Lab Sample ID: 890-2784-25 Client Sample ID: BH-184 (4.5')

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			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 19:26	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 16:17	SM	EET MID
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	CH	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	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	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

Lab Sample ID: 890-2784-27 Client Sample ID: BH-186 (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	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 Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g	10 mL	32714 32806	08/22/22 16:33 08/24/22 18:48	DM SM	EET MID EET MID

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Client Sample ID: BH-186 (4.5')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00 Lab Sample ID: 890-2784-27

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			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 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			4.96 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 20:28	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	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 17:01	SM	EET MID
Soluble	Leach	DI Leach			5.03 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 10:13	CH	EET MID

Client Sample ID: BH-188 (4.5')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Lab Sample ID: 890-2784-29

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	33361	08/30/22 12:16	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33465	08/31/22 20:48	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			10.01 g	10 mL	32714	08/22/22 16:33	DM	EET MID
Total/NA	Analysis	8015B NM		1			32806	08/24/22 17:23	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 10:21	CH	EET MID

Client Sample ID: BH-189 (4.5')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

08/29/22 10:21	СН	EET MID
Lab Samp	ole ID:	890-2784-30 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	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 MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33168	08/29/22 10:29	CH	EET MID

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Job ID: 890-2784-1 Client: Tetra Tech, Inc. 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	СН	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 MIC
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')

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00 Lab Sample ID: 890-2784-34

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 8015 NM Analysis 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 20:58 SM EET MID 1 Soluble 32584 08/21/22 19:35 SMC **EET MID** Leach DI Leach 4.96 g 50 mL 300.0 08/29/22 14:49 Soluble Analysis 1 0 mL 0 mL 33169 СН **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')

Date Collected: 08/18/22 00:00

Lab Sample ID: 890-2784-36

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 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	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 Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g	10 mL	32714 32806	08/22/22 16:33 08/24/22 21:41	DM SM	EET MID EET MID

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Matrix: Solid

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Job ID: 890-2784-1

Client: Tetra Tech, Inc. 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

Lab Sample ID: 890-2784-37

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			5.02 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 15:28	CH	EET MID

Client Sample ID: SW-48 (6-8') Lab Sample ID: 890-2784-38

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Туре Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 5.02 g 33361 08/30/22 12:16 EL EET MID Prep 5 mL Total/NA 8021B 5 mL 5 mL 33465 09/01/22 01:21 MR Analysis 1 **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 32714 08/22/22 16:33 EET MID Prep 8015NM Prep 10.00 g 10 mL DM 8015B NM 32806 08/24/22 19:53 **EET MID** Total/NA Analysis SM Soluble DI Leach 5.01 g 50 mL 32584 08/21/22 19:35 SMC **EET MID** Leach Analysis 300.0 33169 08/29/22 15:36 СН **EET MID** Soluble 1 0 mL 0 mL

Client Sample ID: SW-49 (4.5-6') Lab Sample ID: 890-2784-39

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			5.04 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')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Lab Sample ID: 890-2784-40
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			5.03 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 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

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 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 Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.00 g	10 mL	32774 32808	08/23/22 10:46 08/24/22 23:07	DM AJ	EET MID 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

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			5.08 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

Lab Sample ID: 890-2784-43

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	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

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	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

Job ID: 890-2784-1 Client: Tetra Tech, Inc. 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	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			10.03 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 Method Amount Amount Number or Analyzed Type Run Factor Analyst Lab Total/NA 5035 Prep 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 Total BTEX **EET MID** Analysis 1 33551 09/01/22 12:44 SM Total/NA Analysis 8015 NM 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 32808 08/25/22 00:33 AJ **EET MID** 1 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 СН **EET MID**

Client Sample ID: SW-59 (6-8') Lab Sample ID: 890-2784-46 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	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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Client Sample ID: SW-60 (0-13')

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: 890-2784-47

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			5.02 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 17:32	CH	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	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 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')

Date Collected: 08/18/22 00:00

Date Received: 08/19/22 08:00

Lab Sample ID: 890-2784-50

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 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

Lab Sample ID: 890-2784-52

Lab Sample ID: 890-2784-53

Matrix: Solid

Matrix: Solid

Matrix: Solid

Client Sample ID: SW-64 (8-10') 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 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')

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		1	5 mL	5 mL	33465	09/01/22 11:52	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 23:32	AJ	EET MID
Soluble	Leach	DI Leach			5.05 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 18:08	CH	EET MID

Client Sample ID: SW-66 (8-10')

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			5.05 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')

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			4.95 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

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Lab Sample ID: 890-2784-54 **Matrix: Solid**

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Lab Sample ID: 890-2784-54

Date Collected: 08/18/22 00:00 Date Received: 08/19/22 08:00

Client Sample ID: SW-67 (8-10')

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 Method Amount Amount Number or Analyzed Type Run Factor Analyst Lab Total/NA 5035 Prep 5.04 g 5 mL 33362 08/30/22 12:29 EL **EET MID** Total/NA Analysis 8021B 5 mL 5 mL 33465 09/01/22 12:53 MR **EET MID** 1 Total/NA Total BTEX **EET MID** Analysis 1 33551 09/01/22 12:44 SM Total/NA Analysis 8015 NM 32780 08/23/22 11:36 SM **EET MID** 1 Total/NA Prep 8015NM Prep 10.02 g 10 mL 32713 08/22/22 16:29 DM **EET MID** Total/NA Analysis 8015B NM 32730 08/24/22 00:36 AJ **EET MID** 1 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 СН **EET MID**

Client Sample ID: SW-69 (0-6') Lab Sample ID: 890-2784-56 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	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

Matrix: Solid

Matrix: Solid

9/1/2022

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	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 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		ogram	Identification Number	Expiration Date
Texas	NE	NELAP T104704400-22-24		06-30-23
The following analytes	are included in this report hi	it the laboratory is not certific	ed by the governing authority. This list ma	v include analytes for y
the agency does not of	' '	it the laboratory is not certify	ed by the governing additionty. This list the	ay illolude allalytes for v
0 ,	' '	Matrix	Analyte	ay include analytes for v
the agency does not of	fer certification.	•	, , ,	ay include analytes for v

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Method Summary

Client: Tetra Tech, Inc. Job ID: 890-2784-1 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

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

Tetra Tech, Inc. Manager Solutions Ste Manager Clair Gonzales Ste Manager Ste Manager Clair Gonzales Ste Manager		Relinquished by:	Relinquished by:	The state of the s	Relinguished by:	вн-169 (5)	ВН-168 (5')	вн-167 (5')	ВН-166 (8')	BH-164 (9')	вн-162 (8')	BH-159 (8')	ВН-132 (8')	BH-124 (8')	вн-120 (8')	(LABUSE)	LAB #		Comments:	Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:		4
Site Manager: Clair Gonzales Sampler Signature: Peyton Oliver Peyton			Date:		Date:)	5)	5)	5)	7)	r)	5')	5")	5")	5)		SAMPLE IDENTIFICATION			Eurofins Xenco	Permian Water Solutions - Dusty McIntu	Lea County, NM	Kaiser SWD	Permian Water Solutions		Tetra Tech, Inc
# CONTAINERS # CONTAINERS FILTERED (Y/N) Filtered (Y/N) Filtered (Y/N)		Received by:	Received by:	- ("(me /	Received by:	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022		YEAR: 2020	SAMPLING		Sampler Signature:		Project #:	Clair.	Site Manager:		•
FILTERED (Y/N) FILTERED (Y/N)			Time:	ນ												SOIL HCL HNO ₃ ICE	R			Peyton Oliver		212C-MD-02230	onzales@tetratech.com	Clair Gonzales	Fax (432) 682-3946	Midland, Texas 79705 Tel (432) 682-4559
TCLP Semi Volatiles	(Circle) HAND	70	K	C LAB USE												FILTER BTEX TPH T	RED (*) 8021B X1005 015M (Y/N) BTE	C35)		MRO)			ANALYS		
PLM (Asbestos)	FEDEX			×	REMARKS											TCLP N TCLP S RCI GC/MS GC/MS PCB'S NORM	Metals /olatile Semi V Vol. 8 Semi. 8082 /	Ag As colatiles 3260B / Vol. 8	Ba Cd Ci	Pb Se				890-2784 Chain of Custody		

ORIGINAL COPY

Relinquished by:		Relinquished by:	1	Relinquished by											(LAB USE)	LAB #		Comments:	Receiving Laboratory:		invoice to:	Project Location: (county, state)	Project Name:	Client Name:		큐	
r. Date: Time:); Date: Time:	12/6/18 2011	/: Date: Time:	BH-179 (4.5)	BH-178 (4.5')	ВН-177 (4.5')	ВН-176 (4.5')	ВН-175 (4.5')	ВН-174 (6')	вн-173 (6')	ВН-172 (6')	BH-171 (5')	ВН-170 (5')		SAMPLE IDENTIFICATION			Eurofins Xenco	Permian Water Solutions - Dusty McInturff		Lea County, NM	Kaiser SWD	Permian Water Solutions		tetra tech, inc.	Total Task Inc
Received by:		Received by:		Required by:	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	DATE	YEAR: 2020	SAMPLING		C C C C C C C C C C C C C C C C C C C		-	Project #:	Clair	One mail ago	oit Manager		
Date:		Date	いららる	Date:	×	×	×	×	×	×	×	×	×	×	WATE SOIL HCL HNO ₃ ICE	R	MATRIX PRESER		Peyton Oliver			212C-MD-02230	Clair.Gonzales@tetratech.com	Clair Gonzales	Fax (432) 682-3946	Tel (432) 682-4559	SOTAV AVAIL Street, Ste 100 Micland, Texas 79705
Time:		Time:	20	Time:											None # CON							30	om		5		100
ر ا	0)	Sample Temperature	LAB OOE ONLY		×	×	×	×	×	×	×	×	×		PAH 8 Total M	X1005 015M 270C letals	(Ext to (GRO Ag As	EX 8260 c C35) - DRO - 0 Ba Cd Cr Ba Cd C	ORO -	Hg)			ANALYSIS REC			
Special Repo	Rush Charges Authorized	RUSH: Sam	<u> </u>	REMARKS											TCLP S TCLP S RCI GC/MS	Volatile Semi V Vol.	olatile 8260B	s						(Circle or Specify			
Special Report Limits or TRRP Report	s Authorized	Same Day 24 hr 48 hr		A D D	×	×	×	×	×	×	×	×	×	×	NORM PLM (A Chloric	Asbest le de : al Wa	os) Sulfate ter Ch	emistry (see a	ttache	ed lis	st)		v Method No.)			
oort		72 hr													Hold	CallO	Dala	1100									

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		Relinquished by:	Relinquished by	The	Relinquished by:											(LABUSE)	LAB #		Comments:	Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:	Alialysis Re
		Date: Time:	Date: Time:	1 6 8/19/12	Date: Time:	BH-189 (4.5)	BH-188 (4.5')	BH-187 (4.5')	BH-186 (4.5')	BH-185 (4.5')	BH-184 (4.5')	BH-183 (4.5)	BH-182 (4.5')	BH-181 (4.5')	BH-180 (4.5')		SAMPLE IDENTIFICATION			Eurofins Xenco	Permian Water Solutions - Dusty McInturff	Lea County, NM	Kaiser SWD	Permian Water Solutions	Tetra Tech, Inc.
		Received by:	Received by:	C/08/11	Received by:	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	DATE	YEAR: 2020	SAMPLING		Sampler Signature:		Project #:	Clair.	Site Manager	
		Date: Time:	Date: Time:			×	×	×	×	×	×	×	×	×	×	WATE SOIL HCL HNO ₃ ICE None	R	MATRIX PRESERVATIVE		Peyton Oliver		212C-MD-02230	Clair.Gonzales@tetratech.com	Clair Gonzales	9U1W Wall Sireet, Sta 100 Midland, Texas 79705 Tel (432) 652-4559 Fay (432) 652-3946
(Circle) HAND DELIVERED		しない	Sample Temperature			×	×	×		×	×	×	×	×	×	PAH 82 Total M	021B 021B 01005 015M (0270C etals A	ERS (/N) BTE (Ext to GRO Ag As E	X 8260E C35) - DRO - C Ba Cd Cr Ba Cd Cr	DRO - I	Hg			ANALYSIS RE	
RED FEDEX UPS Tracking #:	Special Report Limits or TRRP Report	Rush Charges Authorized	NUSH: Same Day 24 fir	N O CONTROL	Z	×	×	×	×	×	×	×	×	×	×	TCLP V TCLP S RCI GC/MS	Vol. 8 Semi. 3082 /	s olatiles 32608 / Vol. 8 608						REQUEST (Circle or Specify Method)	
	TRRP Report	_	1 40 II 72 III	7												Chlorid Genera Anion/G	l Wat	***	TDS emistry (s	see att	ached	list)		a No.	3

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	Kelinquisned by:		Relinquished by:	Ra	Relinquished by:											(LABUSE)	LAB #		Comments:	Receiving Laboratory:	invoice to:	Project Location: (county, state)	Project Name:	Client Name:	(큐	
	Date: Inne:			ff 8/19/20	Date: Time:	SW-53 (0-8')	SW-49 (4.5-6)	SW-48 (6-8')	SW-47 (0-5')	SW-46 (0-5')	SW-45 (0-8')	SW-44 (4.5-8')	SW-43 (6-8')	SW-42 (4.5-8')	SW-38 (4.5-13')		SAMPLE IDENTIFICATION			Eurofins Xenco	Permian Water Solutions - Dusty McInturff	Lea County, NM	Kaiser SWD	Permian Water Solutions		letra lech, inc.	and the state of t
	Secented by		Received by:	(((() () () ()	Received by:	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	8/18/2022	DATE TIME	YEAR: 2020	SAMPLING		Garage Grant		Project #		Ske Manager			
	Caio		Date: Time:	RC-61.39	Date: Time:	×	×	×	×	×	×	×	×	×	×	WATER SOIL HCL HNO ₃ ICE None	,	MATRIX PRESERVATIVE METHOD		Peyton Oliver		212C-MD-02230	Clair.Gonzales@tetratech.com	Clair Gonzales	Fax (432) 682-3946	Tel (432) 682-4559	90177 Wall Street, Ste 100 Midland, Texas 79705
(Circle) HAND DELIVERED FEDE	ış.		Sample Temperature	LAB USE ONLY	R	×	×	×	×	×	×	×	×		×	# CONT FILTER BTEX 8 TPH TX TPH 80 PAH 82 Total Me TCLP M TCLP Se RCI	ED (Y 021B 1005 (15M (70C ttals A etals A	BTE (Ext to GRO GRO Ag As E	- DRO - · Ba Cd Cr Ba Cd C	ORO - Pb Se	Hg			ANALYSIS REQUEST			
FEDEX UPS Tracking#	Special Report Limits or TRRP Report	Rush Charges Authorized	RUSH: Same Day 24 hr 48 hr 72 hr		(S:	×	×	×	×	×	×	×	×	×	×	GC/MS S GC/MS S PCB's 8 NORM PLM (As Chloride Chloride	Semi. 0827 besto	Vol. 8 608 s) ulfate er Che	TDS emistry (tached	list)		Specify Wethod No.)			

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Analysis Reques

of Chain of Custody Record

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9/1/2022

Login Sample Receipt Checklist

Client: Tetra Tech, Inc. Job Number: 890-2784-1 SDG Number: Lea County NM

Login Number: 2784 List Number: 1 Creator: Clifton, Cloe List Source: Eurofins Carlsbad

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: 890-2784-1 SDG Number: Lea County NM

List Source: Eurofins Midland

List Creation: 08/22/22 08:49 AM

Creator: Rodriguez, Leticia

Login Number: 2784

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 <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:

eurofins

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

.....LINKS

Received by OCD: 8/29/2023 3:51:49 PM

Review your project results through EOL

Have a Question?



Visit us at:

www.eurofinsus.com/Env Released to Imaging: 9/1/2023 3:25:35 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

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

Client: Tetra Tech, Inc.

Job ID: 890-2785-1

Project/Site: Kaiser SWD

SDG: Lea County NM

2

Qualifiers

GC VOA

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

F1 MS and/or MSD recovery exceeds control limits.
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.

Example 2 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)

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: 890-2785-1

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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Eurofins Carlsbad 9/1/2022 Client: Tetra Tech, Inc. Job ID: 890-2785-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-110 (6')

Lab Sample ID: 890-2785-1 Date Collected: 08/18/22 12:00 Matrix: Solid

Date Received: 08/19/22 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/30/22 11:43	09/01/22 02:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/30/22 11:43	09/01/22 02:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/30/22 11:43	09/01/22 02:53	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/30/22 11:43	09/01/22 02:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/30/22 11:43	09/01/22 02:53	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		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	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 12:38	1
Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)							
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 08/23/22 14:48	Dil Fac
Total TPH		Qualifier U		MDL		<u>D</u>	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <49.9 ge Organics (Di	Qualifier U RO) (GC)	49.9		mg/Kg			08/23/22 14:48	1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Result <49.9 ge Organics (D	Qualifier U RO) (GC) Qualifier	49.9	MDL	mg/Kg	<u>D</u>	Prepared	08/23/22 14:48 Analyzed	
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 14:48	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <49.9 ge Organics (D	Qualifier U RO) (GC) Qualifier U	49.9		mg/Kg		Prepared	08/23/22 14:48 Analyzed	1 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 13:39	08/23/22 14:48 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	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 13:39	08/23/22 14:48 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	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 13:39 08/22/22 13:39	08/23/22 14:48 Analyzed 08/23/22 04:59 08/23/22 04:59	1 Dil Fac 1 1
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 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 13:39 08/22/22 13:39 08/22/22 13:39	08/23/22 14:48 Analyzed 08/23/22 04:59 08/23/22 04:59 08/23/22 04:59	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) Oll Range Organics (Over C28-C36) Surrogate	Result	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 08/22/22 13:39 08/22/22 13:39 08/22/22 13:39 Prepared	08/23/22 14:48 Analyzed 08/23/22 04:59 08/23/22 04:59 08/23/22 04:59 Analyzed	Dil Fac 1 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) 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 08/22/22 13:39 08/22/22 13:39 08/22/22 13:39 Prepared 08/22/22 13:39	08/23/22 14:48 Analyzed 08/23/22 04:59 08/23/22 04:59 Analyzed 08/23/22 04:59	1 Dil Fac 1 Dil Fac 1
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 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 08/22/22 13:39 08/22/22 13:39 08/22/22 13:39 Prepared 08/22/22 13:39	08/23/22 14:48 Analyzed 08/23/22 04:59 08/23/22 04:59 Analyzed 08/23/22 04:59	1 Dil Fac 1 Dil Fac 1

Client Sample ID: BH-154 (8') Lab Sample ID: 890-2785-2 **Matrix: Solid**

Date Collected: 08/18/22 12:00 Date Received: 08/19/22 08:00

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

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2785-1

SDG: Lea County NM

Client Sample ID: BH-154 (8')

Date Collected: 08/18/22 12:00 Date Received: 08/19/22 08:00 Lab Sample ID: 890-2785-2

Matrix: Solid

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	•	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	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		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)									
OII 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 Chro	matography -	Soluble							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	88.9		5.03		mg/Kg			08/29/22 10:47	

Client Sample ID: SW-41 (6-13') Lab Sample ID: 890-2785-3 **Matrix: Solid**

Date Collected: 08/18/22 12:00 Date Received: 08/19/22 08:00

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)	113		70 - 130				08/30/22 11:43	09/01/22 00:23	20
1,4-Difluorobenzene (Surr)	93		70 - 130				08/30/22 11:43	09/01/22 00:23	20
Method: Total BTEX - Total BT	EX Calculation						00/30/22 11.43	09/01/22 00.23	
Method: Total BTEX - Total BT Analyte	EX Calculation Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX	TEX Calculation Result <0.0806	U		MDL	Unit mg/Kg	<u>D</u>			Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran	TEX Calculation Result <0.0806 age Organics (DR	U (GC)	RL		mg/Kg	_ =	Prepared	Analyzed 09/01/22 12:38	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte	TEX Calculation Result <0.0806 age Organics (DR Result	U O) (GC) Qualifier	RL 			<u>D</u>		Analyzed 09/01/22 12:38 Analyzed	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran	TEX Calculation Result <0.0806 age Organics (DR	U O) (GC) Qualifier	RL		mg/Kg	_ =	Prepared	Analyzed 09/01/22 12:38	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte	TEX Calculation Result <0.0806 age Organics (DR Result <49.9	O) (GC) Qualifier	RL 		mg/Kg	_ =	Prepared	Analyzed 09/01/22 12:38 Analyzed	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ran	TEX Calculation Result <0.0806 Result <49.9 Result <49.9	O) (GC) Qualifier	RL 	MDL	mg/Kg	_ =	Prepared	Analyzed 09/01/22 12:38 Analyzed	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte	TEX Calculation Result <0.0806 Result <49.9 Result <49.9	O) (GC) Qualifier U RO) (GC) Qualifier	RL 0.0806 RL 49.9	MDL	mg/Kg Unit mg/Kg	<u></u>	Prepared Prepared	Analyzed 09/01/22 12:38 Analyzed 08/23/22 14:48	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10	rex Calculation Result <0.0806 Result <49.9 Result <49.9 Result <49.9 Result <49.9	O) (GC) Qualifier U RO) (GC) Qualifier U	RL 0.0806 RL 49.9	MDL	mg/Kg Unit mg/Kg Unit mg/Kg	<u></u>	Prepared Prepared 08/22/22 13:39	Analyzed 09/01/22 12:38 Analyzed 08/23/22 14:48 Analyzed 08/23/22 05:42	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH	TEX Calculation Result <0.0806 age Organics (DR Result <49.9 ange Organics (D Result	O) (GC) Qualifier U RO) (GC) Qualifier U	RL 0.0806 RL 49.9	MDL	mg/Kg Unit mg/Kg Unit	<u></u>	Prepared Prepared	Analyzed 09/01/22 12:38 Analyzed 08/23/22 14:48 Analyzed	Dil Fac

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-2785-1 Project/Site: Kaiser SWD 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

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)											
Α	nalyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac		
C	II Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/22/22 13:39	08/23/22 05:42	1		
s	urrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac		
1	-Chlorooctane	109		70 - 130			08/22/22 13:39	08/23/22 05:42	1		
0	-Terphenyl	99		70 - 130			08/22/22 13:39	08/23/22 05:42	1		

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

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

				Percent Surrogate Recovery (Acceptance Limits)
		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

Client: Tetra Tech, Inc.

Job ID: 890-2785-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-33353/5-A

Matrix: Solid Analysis Batch: 33469 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33353

	MB	MB							
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 Qualifier	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

Lab Sample ID: LCS 880-33353/1-A

Matrix: Solid

Analysis Batch: 33469

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Prep Batch: 33353

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1114 mg/Kg 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 Qu	alifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-33353/2-A

Matrix: Solid

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 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 Batch: 33353

QC Sample Results

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

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene < 0.00199 U 0.101 0.09276 92 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00398 0.202 0.1866 mg/Kg 92 70 - 130 o-Xylene <0.00199 U 0.101 0.1040 103 70 - 130 mg/Kg

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-18581-A-21-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA

Prep Batch: 33353

Analysis Batch: 33469 Sample Sample Spike MSD MSD RPD

Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits 0.100 Benzene <0.00199 U 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 U 0.100 0.1011 101 70 - 130 9 35 mg/Kg 0.200 35 m-Xylene & p-Xylene <0.00398 U 0.2022 mq/Kq 101 70 - 130 8 <0.00199 U 0.100 70 - 130 o-Xylene 0.1134 mg/Kg 113

MSD MSD

Surrogate	%Recovery C	Qualifier	Limits
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**

Analysis Batch: 32588

Prep Type: Total/NA Prep Batch: 32668

Client Sample ID: Lab Control Sample

Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Analyte Gasoline Range Organics 50.0 08/22/22 13:39 08/22/22 21:31 <50.0 U mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 08/22/22 13:39 08/22/22 21:31 mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 08/22/22 13:39 08/22/22 21:31 mg/Kg

MB MB

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	08/22/22 13:3	9 08/22/22 21:31	1
o-Terphenyl	96		70 - 130	08/22/22 13:3	9 08/22/22 21:31	1

Lab Sample ID: LCS 880-32668/2-A **Matrix: Solid**

Analysis Batch: 32588

Prep Type: Total/NA Prep Batch: 32668 LCS LCS Snike

	Орікс						701100
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	962.3		mg/Kg		96	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	942.6		mg/Kg		94	70 - 130
C10-C28)							

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

Matrix: Solid

Analysis Batch: 32588

Client Sample ID: Lab Control Sample

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	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	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)										

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 **Matrix: Solid**

Analysis Batch: 32588

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 Gasoline Range Organics U F1 998 1415 F1 <49.9 138 70 - 130 8 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 998 1042 mg/Kg 104 70 - 130 14 20

C10-C28)

Surrogate 1-Chlorooctane o-Terphenyl

MSD	MSD	
%Recovery	Qualifier	Limits
87		70 - 130
76		70 - 130

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-2785-1 SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-32585/1-A

Matrix: Solid

Analysis Batch: 33170

Client Sample ID: Method Blank

Prep Type: Soluble

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

Lab Sample ID: LCS 880-32585/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 33170

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 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 Result Qualifier %Rec Unit Limits 252 Chloride 215 478.7 105 90 - 110 mg/Kg

Lab Sample ID: 890-2784-A-54-C MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 33170

	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

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.

Job ID: 890-2785-1

Project/Site: Kaiser SWD

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')

Lab Sample ID: 890-2785-1

Matrix: Solid

Date Collected: 08/18/22 12:00 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	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 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			4.97 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') Lab Sample ID: 890-2785-3

Date Collected: 08/18/22 12:00 **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			4.96 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

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 Texas		ogram	Identification Number	Expiration Date
		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

Eurofins Carlsbad

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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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	Relinquished by:		Relinquished by:				ws	ВН	НВ	(ONLY)	LAB#			Comments:	Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:		4	Alidiyala Kequ	
	Date: Time:		Date: Time:				SW-41 (6-13')	BH-154 (8')	BH-110 (6')		SAMPLE IDENTIFICATION				Eurofins Xenco	Permian Water Solutions - Dusty McInturff	Lea County, NM	Kaiser SWD	Permian Water Solutions		Tetra Tech, Inc.	Analysis request of citall of custody record	set of Chain of Custody Record
	Received by:		Received by:				8/18/2022	8/18/2022	8/18/2022	DATE TIME	YEAR: 2020	MPLING			Sampler Signature:	1	Project **		Site Manager:				
	Date: Time:		S. O. J. J. Date: Time:	H			×	×	×	HCL HNO ₃ ICE None		METHOD			Peyton Oliver		212C-MD-02230	Clair.Gonzales@tetratech.com	Clair Gonzales	Fax (432) 682-3946	Midland, Texas 79705 Tel (432) 682-4559	SUTAV VARIE SIZER	890-2785 C
(Circle) HAND DELIVERED FI	7.0 -00 [7.9	Sample Temperature				×	×		# CON FILTE BTEX TPH T TPH 8 PAH 8 Total M TCLP I TCLP V	RED 8021 X100 015W 2700 details Wetail	(Y/N) B B 05 (Exi 1 (GR c) s Ag A	Ba Cd s Ba Cd) - (Cr	ORO - I	Hg			ANALYSIS REQUEST				5 Chain of Custody
FEDEX UPS Tracking#	Special Report Limits or TRRP Report	Rush Charges Authorized	STANDARD RUSH: Same Day 24 hr 48 hr 72 hr				×	×	×	RCI GC/MS GC/MS PCB's NORM PLM (A Chloric	S Vol. S Sem 8082 Asbes de de	8260 ni. Vol 2 / 608 stos) Sulfa	82700 82700	os		tached	list)		T or Specify Method No.)				Page 1 of

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

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	

Released to Imaging: 9/1/2023 3:25:35 PM

Job Number: 890-2785-1

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

Creator: Rodriguez, Leticia

Login Number: 2785

List Number: 2

<6mm (1/4").

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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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

Qualifiers

GC VOA

 Qualifier
 Qualifier Description

 F1
 MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

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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Released to Imaging: 9/1/2023 3:25:35 PM Page 3 of 22

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	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	921	Qualifier	49.9	MIDL	mg/Kg			08/25/22 16:03	- DII Fac
Total IPH	921		49.9		mg/kg			00/23/22 10:03	,
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		08/23/22 15:10	08/25/22 01:58	1
Diesel Range Organics (Over	921		49.9		mg/Kg		08/23/22 15:10	08/25/22 01:58	
C10-C28)									1
• • •	<49.9	U	49.9		mg/Kg		08/23/22 15:10	08/25/22 01:58	
C10-C28)	<49.9 %Recovery		49.9		mg/Kg		08/23/22 15:10 Prepared	08/25/22 01:58 Analyzed	1
C10-C28) Oll Range Organics (Over C28-C36)					mg/Kg				Dil Fac
C10-C28) OII Range Organics (Over C28-C36) Surrogate	%Recovery		Limits		mg/Kg		Prepared	Analyzed	Dil Fac
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	%Recovery 112 105	Qualifier	Limits 70 - 130		mg/Kg		Prepared 08/23/22 15:10	Analyzed 08/25/22 01:58	1 1 Dil Fac
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 112 105 omatography -	Qualifier	Limits 70 - 130	MDL		D	Prepared 08/23/22 15:10	Analyzed 08/25/22 01:58	1

Client Sample ID: BH-190 (4.5')

Date Collected: 08/19/22 12:00

Matrix: Solid

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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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 Rand	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics	Result <49.9		RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared 08/23/22 15:10	Analyzed 08/25/22 08:35	Dil Fac
				MDL		<u>D</u>	<u>·</u>		Dil Fac
Gasoline Range Organics				MDL		<u>D</u>	<u>·</u>		Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9		49.9	MDL	mg/Kg	<u>D</u>	08/23/22 15:10	08/25/22 08:35	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.9	U	49.9	MDL	mg/Kg	<u>D</u>	08/23/22 15:10	08/25/22 08:35	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9 234	U	49.9	MDL	mg/Kg	<u>D</u>	08/23/22 15:10 08/23/22 15:10	08/25/22 08:35 08/25/22 08:35	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 234 <49.9	U	49.9 49.9 49.9	MDL	mg/Kg	<u>D</u>	08/23/22 15:10 08/23/22 15:10 08/23/22 15:10	08/25/22 08:35 08/25/22 08:35 08/25/22 08:35	Dil Fac

RL

5.02

MDL Unit

mg/Kg

D

Prepared

Client Sample ID: BH-191 (4.5')

Method: 300.0 - Anions, Ion Chromatography - Soluble

Date Collected: 08/19/22 12:00 Date Received: 08/19/22 15:48

Analyte

Chloride

REMOVED FROM ANALYSIS TABLE

Result Qualifier

686

Lab Sample ID: 890-2791-3

Analyzed

08/24/22 15:25

Matrix: Solid

Dil Fac

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	RL		mg/Kg	<u>D</u>		Analyzed 09/02/22 11:24 Analyzed	Dil Fac 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	RL		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	RL	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	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	s (DRO) (GC) (Continued)
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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	Analvzed	Dil Fac
- carrogato	70110001019	Quannon	Linne					rinaryzou	
1-Chlorooctane	104	Quamer	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 Analyzed Dil Fac Prepared Chloride 25.2 08/24/22 15:49 249 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	nic 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
1,4-Difluorobenzene (Surr)	103		70 - 130				08/31/22 14:40	09/01/22 19:09	1

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

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Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2050	49.9	ma/Ka			08/25/22 16:03	1

motrica: co rob rim Biccor range	Organios (B	(00)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		08/23/22 15:10	08/25/22 03:02	1
(GRO)-C6-C10									
Diesel Range Organics (Over	2050		49.9		mg/Kg		08/23/22 15:10	08/25/22 03:02	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/23/22 15:10	08/25/22 03:02	1
on runige organies (ever eze ecc)	10.0	· ·	10.0		mg/rtg		00/20/22 10:10	00/20/22 00:02	

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101	·	70 - 130	08/23/22 15:10	08/25/22 03:02	1
o-Terphenyl	95		70 - 130	08/23/22 15:10	08/25/22 03:02	1

Method: 300.0 - Anions	c Ion Chron	aatoaranbu	Coluble
i Melliou. 300.0 - Allions	s. ion cinon	iaiouraunv •	· auiuuie

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.0		5.01		mg/Kg			08/24/22 15:57	1

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
Date Received: 08/19/22 15:48

REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-2791-5

Matrix: Solid

Analyte	Result	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 BTEX	(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	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 Rang	ge Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<250	U	250		mg/Kg		08/23/22 15:10	08/25/22 03:23	
Diesel Range Organics (Over C10-C28)	16000		250		mg/Kg		08/23/22 15:10	08/25/22 03:23	
Oll Range Organics (Over C28-C36)	<250	U	250		mg/Kg		08/23/22 15:10	08/25/22 03:23	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	69	S1-	70 - 130				08/23/22 15:10	08/25/22 03:23	
o-Terphenyl	101		70 - 130				08/23/22 15:10	08/25/22 03:23	
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	271		24.9		mg/Kg			08/24/22 16:20	

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

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
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	
390-2791-2 MSD	BH-190 (4.5')	93	108	
890-2791-3	BH-191 (4.5')	88	103	
390-2791-4	BH-192 (4.5)	91	103	
390-2791-5	BH-193 (4.5')	96	85	
_CS 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	

Surrogate Legend

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

	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
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

MB MB

Surrogate	%Recovery	Qualifier	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

Lab Sample ID: LCS 880-33466/1-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 33557

Prep Type: Total/NA Prep Batch: 33466

Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1098 mg/Kg 110 70 - 130 Toluene 0.100 0.1103 mg/Kg 110 70 - 130 0.100 0.1076 108 Ethylbenzene mg/Kg 70 - 130 99 0.200 0.1975 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.1037 70 - 130 o-Xylene mg/Kg 104

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 San	iple ID: La	ab Contro	I Sample	Dup
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Prop Patch: 22466

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	Qualifier	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	

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QC Sample Results

Job ID: 890-2791-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2791-2 MS Client Sample ID: BH-190 (4.5') **Matrix: Solid**

Prep Type: Total/NA Analysis Batch: 33557 Prep Batch: 33466 MS MS Sample Sample Snike

	Sample	Sample	Spike	IVIO	IVIO				70 KeC
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
o-xylene	<0.00200	UFI	0.0998	0.04484	FT	mg/Kg		45	70 - 130

MS MS %Recovery Surrogate Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 94 1,4-Difluorobenzene (Surr) 109 70 - 130

Client Sample ID: BH-190 (4.5') Lab Sample ID: 890-2791-2 MSD **Matrix: Solid** 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

MSD MSD Qualifier Limits Surrogate %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 93 1,4-Difluorobenzene (Surr) 108 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-32736/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 32797

1		MB	MB							
	Analyte	esult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	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 %Rec Analyte Added Result Qualifier Limits Unit %Rec 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

Spike LCSD LCSD %Rec RPD Result Qualifier Added Limit Analyte Unit D %Rec Limits RPD Chloride 250 243.8 98 90 - 110 20 mg/Kg

Prep Type: Soluble

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

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.

Job ID: 890-2791-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC Semi VOA

Analysis Batch: 32998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2791-1	SW-72 (0-4.5')	Total/NA	Solid	8015 NM	
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

Client: Tetra Tech, Inc. 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 Lab Sample ID: 890-2791-1

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			4.98 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')

Date Collected: 08/19/22 12:00

Date Received: 08/19/22 15:48

Lab Sample ID: 890-2791-2

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	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

Lab Sample ID: 890-2791-3

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	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

Lab Sample	ID: 890-2791-4
------------	----------------

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	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

Client: Tetra Tech, Inc. Job ID: 890-2791-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-192 (4.5)

Lab Sample ID: 890-2791-4 Date Collected: 08/19/22 12:00

Matrix: Solid

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	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 **Matrix: Solid**

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

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		Program	Identification Number	Expiration Date
Texas	N	IELAP	T104704400-22-24	06-30-23
The following analytes the agency does not of	• •	out the laboratory is not certific	ed by the governing authority. This list ma	ay include analytes for wl
Analysis Method	Prep Method	Matrix	Analyte	
Analysis Method 8015 NM	Prep Method	Matrix Solid	Analyte Total TPH	

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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

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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

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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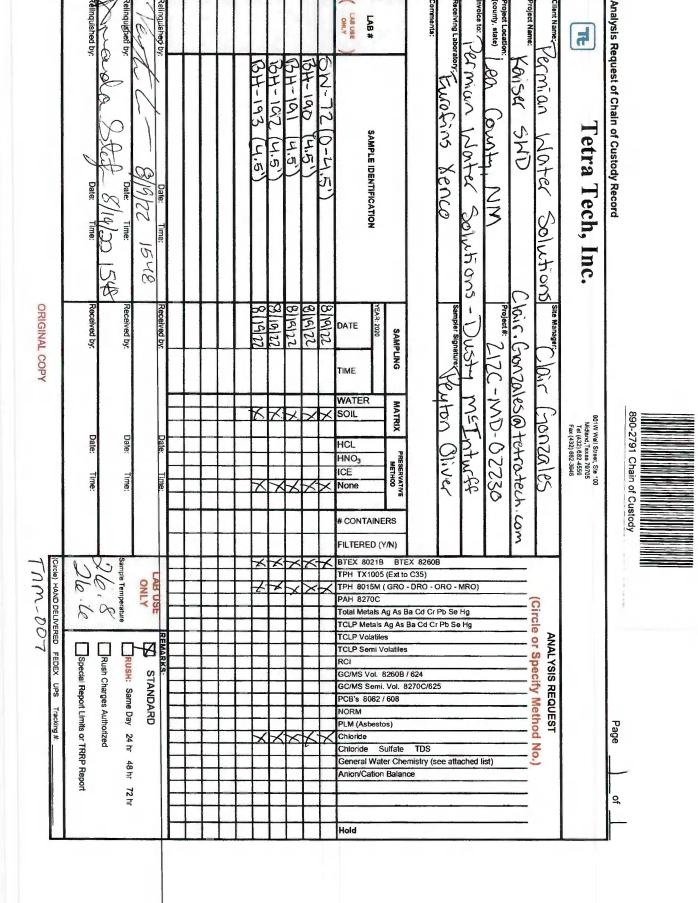
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LAB #

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 <6mm (1/4").	N/A	

Eurofins Carlsbad Page 21 of 22

9/2/2022

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Login Number: 2791

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Containers requiring zero headspace have no headspace or bubble is

Job Number: 890-2791-1 SDG Number: Lea County NM

List Source: Eurofins Midland

List Source: Euronns Midiand
List Creation: 08/23/22 10:32 AM

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	
ooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
DC is present.	True	
DC is filled out in ink and legible.	True	
OC is filled out with all pertinent information.	True	
the Field Sampler's name present on COC?	True	
ere are no discrepancies between the containers received and the COC.	True	
imples are received within Holding Time (excluding tests with immediate s)	True	
ample containers have legible labels.	True	
ontainers are not broken or leaking.	True	
mple collection date/times are provided.	True	
propriate sample containers are used.	True	
ample bottles are completely filled.	True	
ample Preservation Verified.	N/A	
here is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	

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: 890-3009-1

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: 10/1/2022 7:08:10 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

.....LINKS

Review your project results through EOL

Received by OCD: 8/29/2023 3:51:49 PM

Have a Question?



Visit us at:

www.eurofinsus.com/Env Released to Imaging: 9/1/2023 3:25:35 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

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

Client: Tetra Tech, Inc.

Job ID: 890-3009-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Qualifiers

GC VOA

Qualifier Description

S1+ Surrogate recovery exceeds control limits, high biased.
U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

*1 LCS/LCSD RPD exceeds control limits.

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: 890-3009-1

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.

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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
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Method: 8015 NM - Diesel Range Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
_		Qualifier		MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 09/23/22 16:01	Dil Fac
Analyte	Result <50.0	Qualifier U		MDL		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH	Result <50.0	Qualifier U		MDL	mg/Kg	<u>D</u>	Prepared Prepared		Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <50.0	Qualifier U RO) (GC) Qualifier	50.0		mg/Kg		<u> </u>	09/23/22 16:01	1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <50.0 Ge Organics (Dige Result	Qualifier U RO) (GC) Qualifier U *1	50.0		mg/Kg		Prepared	09/23/22 16:01 Analyzed	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 <50.0)	Qualifier U RO) (GC) Qualifier U *1	50.0 RL 50.0		mg/Kg Unit mg/Kg		Prepared 09/21/22 08:32	09/23/22 16:01 Analyzed 09/23/22 04:27	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 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	1 Dil Fac 1
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 *1 U	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 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 Fac 1 1 Dil Fac 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	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 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
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 <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 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	1 Dil Fac 1
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 *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 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	1 Dil Fac 1 Dil Fac 1

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

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

Analyte

Chloride

Method: 8021B - Volatile Organic	Compounds (GO) (GOIILII	,						
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	•	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 (D	, , ,		MDL		— — D	Prepared		Dil Fac
Method: 8015B NM - Diesel Ranç Analyte	ge Organics (D	Qualifier	49.9 RL 49.9	MDL	Unit	<u>D</u>	Prepared 09/21/22 08:32	09/23/22 16:01 Analyzed 09/23/22 04:06	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (D	Qualifier	RL	MDL		<u>D</u>		Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D	Qualifier	RL	MDL	Unit	<u>D</u>		Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D 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 (D Result <49.9	Qualifier U *1	RL 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	09/21/22 08:32 09/21/22 08:32	Analyzed 09/23/22 04:06 09/23/22 04:06	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 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 1

25.1

MDL Unit

mg/Kg

Prepared

Analyzed

09/23/22 22:58

Result Qualifier

320

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Dil Fac

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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Job ID: 890-3009-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-35620/5-A

Matrix: Solid

Analyte Benzene

Toluene Ethylbenzene m-Xylene & p-Xylene

o-Xylene

Xylenes, Total

Analysis Batch: 35744

Client Sample ID: Method Blank

10/01/22 07:33

10/01/22 07:33

Prep Type: Total/NA

Prep Batch: 35620

MB	MB							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 07:33	
<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 07:33	
<0.00200	U	0.00200		mg/Kg		09/28/22 14:52	10/01/22 07:33	•
<0.00400	U	0.00400		mg/Kg		09/28/22 14:52	10/01/22 07:33	

mg/Kg

mg/Kg

MB MB

<0.00200 U

<0.00400 U

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	09/28/22 14:52	10/01/22 07:33	1
1 4-Difluorobenzene (Surr)	86		70 - 130	09/28/22 14:52	10/01/22 07:33	1

0.00200

0.00400

Lab Sample ID: LCS 880-35620/1-A

Matrix: Solid

Analysis Batch: 35744

Client Sample ID: Lab Control Sample

09/28/22 14:52

09/28/22 14:52

Prep Type: Total/NA

Prep Batch: 35620

	Бріке	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09300		mg/Kg		93	70 - 130	
Toluene	0.100	0.08450		mg/Kg		85	70 - 130	
Ethylbenzene	0.100	0.09159		mg/Kg		92	70 - 130	
m-Xylene & p-Xylene	0.200	0.1871		mg/Kg		94	70 - 130	
o-Xylene	0.100	0.1192		mg/Kg		119	70 - 130	

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	

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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) (Continued)

Lab Sample ID: 880-19424-A-41-E MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA Prep Batch: 35620 Analysis Batch: 35744

	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	
	Me	Me								

	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 Prep Type: Total/NA

Matrix: Solid Prep Batch: 35620 Analysis Batch: 35744

	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
I and the second second second second second second second second second second second second second second se											

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130
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

Prep Batch: 35630 Analysis Batch: 35744 MR MR

	IVID	IVID							
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	МВ				
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

мв мв Result Qualifier MDL Unit Prepared Gasoline Range Organics <50.0 U 50.0 mg/Kg 09/21/22 08:32 09/22/22 19:31

(GRO)-C6-C10

Analysis Batch: 35120

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Prep Batch: 35018

Client Sample ID: Method Blank

09/22/22 19:31

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

09/21/22 08:32

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Pron Batch: 35018

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**

Diesel Range Organics (Over

OII Range Organics (Over C28-C36)

Analyte

C10-C28)

Analysis Batch: 35120

Prep Batch: 35018 MB MB Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac <50.0 U 50.0 09/21/22 08:32 09/22/22 19:31 mg/Kg

mg/Kg

MB MB

<50.0 U

LCS LCS

Surrogate	%Recovery Qua	alifier 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

50.0

Lab Sample ID: LCS 880-35018/2-A

Matrix: Solid

Analysis Batch: 35120							Prep Batch: 35018		
	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	1000	1066		mg/Kg		107	70 - 130		
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1068		mg/Kg		107	70 - 130		

C10-C28)

Qualifier Limits Surrogate %Recovery 1-Chlorooctane 70 - 130 113 o-Terphenyl 105 70 - 130

Lab Sample ID: LCSD 880-35018/3-A

Matrix: Solid

Analysis Batch: 35120

Alialysis Datell. 33120							i iep	Daten.	33010
	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

MS MS Spike %Rec Sample Sample Limits Result Qualifier Added Result Qualifier %Rec Analyte Unit <49.9 U *1 996 826.0 70 - 130 Gasoline Range Organics 83 mg/Kg (GRO)-C6-C10 996 868.7 Diesel Range Organics (Over <49.9 U mg/Kg 70 - 130

C10-C28)

	INIS	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 0 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

Matrix: Solid

Analysis Batch: 35314

MB MB

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

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

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

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 0

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Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: BH-185 (13')

Client Sample ID: BH-185 (13')

Client Sample ID: Lab Control Sample Dup

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

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

Lab Sample ID: 890-3009-2 Client Sample ID: BH-186 (13')

Date Collected: 09/19/22 00:00 **Matrix: Solid**

Date Received: 09/20/22 10:22

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 Total/NA Prep 5.00 g 5 mL 35620 09/28/22 14:52 EL EET MID 8021B Total/NA 5 mL **EET MID** Analysis 1 5 mL 35744 10/01/22 14:04 MNR Total/NA Total BTEX 35877 10/01/22 19:44 Analysis 1 A.I **EET MID** Total/NA Analysis 8015 NM 35298 09/23/22 16:01 SM **EET MID** Total/NA 8015NM Prep 35018 Prep 10.03 g 10 mL 09/21/22 08:32 DM **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 35120 09/23/22 04:06 SM **EET MID** 09/21/22 10:05 Soluble 35023 **EET MID** Leach DI Leach 4.98 g 50 mL SMC Soluble Analysis 300.0 5 35314 09/23/22 22:58 СН **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	Pr	Program Identification Number Ex			
Texas	NE	ELAP	T104704400-22-24	06-30-23	
The following analytes	are included in this report by	it the leberatory 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: 890-3009-1

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

Eurofins Carlsbad

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Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-3009-1

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3009-1	BH-185 (13')	Solid	09/19/22 00:00	09/20/22 10:22	13
890-3009-2	BH-186 (13')	Solid	09/19/22 00:00	09/20/22 10:22	13

Relinquished by:	Relinquished by				LAB USE ONLY		Comments:	Receiving Laboratory:	invoice to:	Project Location: (county, state)	Project Name:	Client Name:	급	7
by: Date: Time:	by: Date: Time: PLO/22 Date: Time:		BH-186 (13')	BH-185 (13')	SAMPLE IDENTIFICATION				Permian Water Solutions - Dusty McInturff	Lea County, NM	Kaiser SWD	Permian Water Solutions	Tetra Tech, Inc.	
Received by:	Received by:		9/19/2022	9/19/2022	DATE	SAMPLING YEAR: 2020		Sampler Signature:		Project #		Site Manager:		
Date: Time:	Date: Time: Date: Time:		×		WATER SOIL HCL HNO ₃ ICE None	MATRIX PRESERVATIVE METHOD		Peyton Oliver		212C-MD-02230	Clair.Gonzales@tetratech.com	Clair Gonzales	Midland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946	SOTOV PVSIII Street, Sie 100
Cords Hand Del Meet Neet N	USE ONLY	890-3009	×	工	# CONTAI FILTERED BTEX 802 TPH TX10 TPH 8015 PAH 8270 Total Metal TCLP Meta	NERS 0 (Y/N) 1B BTE 05 (Ext to M (GRO - C C s Ag As E	DRO - C	DRO - I	Hg			ANALYSIS REQUEST		
Special Report Limits or TRRP Report	REMARKS: X STANDARD RUSH: Same Day 24 hr 48 hr 72 hr	009 Chain of Custody	×	×	TCLP Sem RCI GC/MS Vol GC/MS Sei PCB's 808 NORM PLM (Asbe Chloride Chloride General W Anion/Cati	. 82608 / mi. Vol. 8 .2 / 608 .stos) Sulfate /ater Che	TDS		ached	list)		EST le or Specify Method No.)		

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10/1/2022

Login Sample Receipt Checklist

Client: Tetra Tech, Inc. Job Number: 890-3009-1 SDG Number: Lea County NM

List Source: Eurofins Carlsbad

Login Number: 3009 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: 890-3009-1 SDG Number: Lea County NM

List Source: Eurofins Midland

List Creation: 09/21/22 11:23 AM

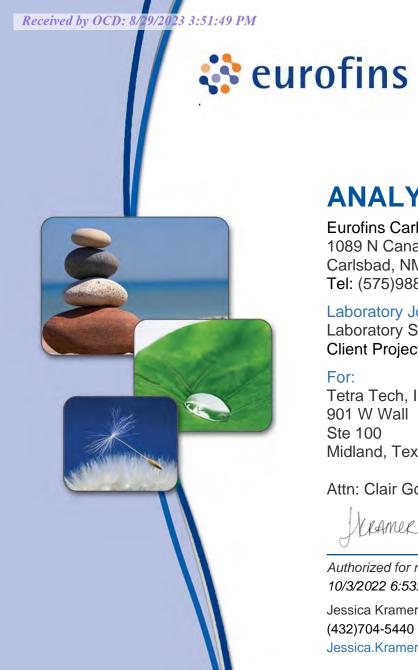
List Number: 2 Creator: Rodriguez, Leticia

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	

Released to Imaging: 9/1/2023 3:25:35 PM

<6mm (1/4").



.....LINKS

Review your project results through

EOL

Have a Question?

www.eurofinsus.com/Env

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Visit us at:

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

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.

Laboratory Job ID: 890-3010-1

Project/Site: Kaiser SWD

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

2

Qualifiers

GC	VOA
Qua	lifier

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.
U 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			
			-	

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

METOD 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

Case Narrative

Job ID: 890-3010-1 Client: Tetra Tech, Inc. 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.

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

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 BTE	X 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 Range	e Organics (DR	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 Ran	ge 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 Chr	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	991		25.2		mg/Kg			09/23/22 23:03	- 5

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

Client Sample ID: Trench-1 (10')
Date Collected: 09/19/22 00:00
Date Received: 09/20/22 10:22

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Matrix: Solid

Matrix: Solid

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

4770

Job ID: 890-3010-1

SDG: Lea County NM

Lab Sample ID: 890-3010-2

09/23/22 23:08

Client Sample ID: Trench-2 (5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 5

Chloride

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		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		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			09/26/22 13:20	1
Method: 8015B NM - Diesel Rang	vo Organico (D	BOV (GC)							
Method, ou ibb NW - Dieser Rand	ie Organics (Di	NOI IGGI							
		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	RL 49.9	MDL		<u>D</u>	Prepared 09/22/22 11:26	Analyzed 09/23/22 21:40	Dil Fac
Analyte Gasoline Range Organics		Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared 09/22/22 11:26	Analyzed 09/23/22 21:40	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result	Qualifier U		MDL		<u>D</u>			Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		Qualifier U	49.9	MDL	mg/Kg	<u>D</u>	09/22/22 11:26	09/23/22 21:40	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)		Qualifier U	49.9	MDL	mg/Kg	<u>D</u>	09/22/22 11:26	09/23/22 21:40	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	Qualifier U	49.9	MDL	mg/Kg	<u>D</u>	09/22/22 11:26 09/22/22 11:26	09/23/22 21:40	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9 <49.9 <49.9	Qualifier U U U	49.9 49.9 49.9	MDL	mg/Kg	<u>D</u>	09/22/22 11:26 09/22/22 11:26 09/22/22 11:26	09/23/22 21:40 09/23/22 21:40 09/23/22 21:40	1
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 <49.9 <49.9 <49.9 %Recovery	Qualifier U U U	49.9 49.9 49.9 Limits	MDL	mg/Kg	<u>D</u>	09/22/22 11:26 09/22/22 11:26 09/22/22 11:26 Prepared	09/23/22 21:40 09/23/22 21:40 09/23/22 21:40 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <40.0 <	Qualifier U U Qualifier	49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg	<u>D</u>	09/22/22 11:26 09/22/22 11:26 09/22/22 11:26 Prepared 09/22/22 11:26	09/23/22 21:40 09/23/22 21:40 09/23/22 21:40 Analyzed 09/23/22 21:40	1

50.4

mg/Kg

Eurofins Carlsbad

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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

Eurofins Carlsbad

Method: 8021B - Volatile Organic Compounds (GC)

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

ı		MB	MR							
	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
I	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
I	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
ı										

MB MB

MD MD

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	
o-Xylene	0.100	0.07531		mg/Kg		75	70 - 130	

LCS LCS

Surrogate	%Recovery Quality	fier Limits
4-Bromofluorobenzene (Surr)	109	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: LCSD 880-35625/2-A

Matrix: Solid

Analysis Batch: 35815

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 35625

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.06587 mg/Kg 66 70 - 130 35 Toluene 0.100 0.07114 mg/Kg 71 70 - 130 2 35 Ethylbenzene 0.100 0.07179 mg/Kg 72 70 - 130 35 0.200 m-Xylene & p-Xylene 0.1452 mg/Kg 73 70 - 130 35 0.100 0.07431 70 - 130 o-Xylene mg/Kg 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1.4-Difluorobenzene (Surr)	99		70 - 130

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	
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	

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-19417-A-1-E MS

Analysis Batch: 35815

Client Sample ID: Matrix Spike **Matrix: Solid** 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

Lab Sample ID: 880-19417-A-1-F MSD

Matrix: Solid

Analysis Batch: 35815									Prep	Batch:	35625
	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-Xvlene	<0.00201	U	0.0990	0.1043		ma/Ka		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

Analysis Batch: 35815

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 35628 MB MB

nalyte	Result	Qu
	-0.00000	

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
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/28/22 16:25	10/01/22 06:46	1

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

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Type: Total/NA Prep Batch: 35692

	MB	MR							
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

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

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

MR MR

мв мв

		_			
Surrogate	%Recovery Qu	ualifier 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 880-35724/5-A **Client Sample ID: Method Blank**

Matrix: Solid

Analysis Batch: 35890

MB MB

Prep Type: Total/NA

Prep Batch: 35724

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
Xylenes, Total	< 0.00400	U	0.00400		mg/Kg		09/29/22 16:18	10/03/22 08:58	1

мв мв

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	09	9/29/22 16:18	10/03/22 08:58	1
1,4-Difluorobenzene (Surr)	76		70 - 130	09	9/29/22 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
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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 Samp	le ID: Lab	Control	Sample	Dup
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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

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-3010-1 SDG: Lea County NM

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

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 35890 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	

 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

Spike MSD MSD %Rec RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Benzene 0.0990 <0.00200 U*+*1 0.09916 mg/Kg 100 70 - 130 9 35 <0.00200 U *+ *1 Toluene 0.0990 0.1009 102 70 - 130 35 mg/Kg 5 Ethylbenzene <0.00200 U *+ *1 0.0990 0.08894 90 70 - 130 35 mg/Kg m-Xylene & p-Xylene <0.00401 U*+*1 0.198 0.1820 mg/Kg 92 70 - 130 35 o-Xylene <0.00200 U*+*1 0.0990 0.09773 mg/Kg 99 70 - 130 35

 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 880-35172/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 35220 Prep Batch: 35172

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

	IVID IVID				
Surrogate	%Recovery Qualif	fier Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120	70 - 130	09/22/22 11:26	09/23/22 20:35	1
o-Terphenvl	139 S1+	70 - 130	09/22/22 11:26	09/23/22 20:35	1

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3

-

6

8

10

12

13

Prep Type: Total/NA

Prep Batch: 35724

Client Sample ID: Lab Control Sample

70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Client Sample ID: Trench-2 (5')

Client Sample ID: Trench-2 (5')

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 35172

Prep Batch: 35172

89

Job ID: 890-3010-1 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

Matrix: Solid

Prep Type: Total/NA **Analysis Batch: 35220** Prep Batch: 35172 Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits D Gasoline Range Organics 1000 960.3 mg/Kg 96 70 - 130

891.9

mg/Kg

1000

Diesel Range Organics (Over C10-C28)

(GRO)-C6-C10

LCS LCS

		_00	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: LCSD 880-35172/3-A

Matrix: Solid

Analysis Batch: 35220

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 960.5 0 Gasoline Range Organics mg/Kg 96 70 - 130 (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

Matrix: Solid

Analysis Batch: 35220 Sample Sample Spike MS MS

%Recovery Qualifier

103

%Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Gasoline Range Organics <49.9 U 996 887.9 70 - 130 87 mg/Kg (GRO)-C6-C10 <49.9 U 996 998.1 100 70 - 130 Diesel Range Organics (Over mg/Kg

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 90 70 - 130 88 70 - 130 o-Terphenyl

Lab Sample ID: 890-3010-2 MSD

Matrix: Solid

Surrogate

1-Chlorooctane

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									

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Limits

70 - 130

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

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Total/NA Prep Batch: 35172

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

Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed Chloride <5.00 5.00 09/23/22 22:29 U mg/Kg

Lab Sample ID: LCS 880-35023/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 35314

LCS LCS Spike %Rec Added Result Qualifier Analyte 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 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 35314

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 247.2 90 - 110 mg/Kg

Lab Sample ID: 890-3009-A-1-C MS

Matrix: Solid

Analysis Batch: 35314

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	591		1240	1868		ma/Ka		103	90 - 110	

Lab Sample ID: 890-3009-A-1-D MSD

Matrix: Solid

Analysis Batch: 35314

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Qualifier Limits RPD Limit Result Unit %Rec Chloride 1240 103 591 1873 90 - 110 20 mg/Kg

QC Association Summary

Client: Tetra Tech, Inc.

Job ID: 890-3010-1

Project/Site: Kaiser SWD

SDG: Lea County NM

GC VOA

Prei	o B	atch	ո։ 3	5625

5') ank	Total/NA Total/NA	Solid Solid	5035 5035	
	Total/NA	Solid	5035	
ol Sample	Total/NA	Solid	5035	
ol Sample Dup	Total/NA	Solid	5035	
ke	Total/NA	Solid	5035	
ke Duplicate	Total/NA	Solid	5035	
ļ	ol Sample Dup se	ol Sample Dup Total/NA se Total/NA	ol Sample Dup Total/NA Solid se Total/NA Solid	ol Sample Dup Total/NA Solid 5035 se 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	

HPLC/IC

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

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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

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Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Job ID: 890-3010-1

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 by	it the leberatory 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 analytes 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: 890-3010-1

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	Depth
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

Tetra Tech, Inc. Figure 2005 Templer Solutions Site Manager: Clair Gonzaless Clair Gonzales	Relinquished by:	Relinguished by:				LAB#		Receiving Laboratory: Comments:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name;	4
Stee Manager: Clair Gonzales (Clair Gonzales (Date:	12 9/20/22 Date:		Trench-2 (5')	Trench-1 (10')	SAMPLE IDENTIFICATION			Permian Water Solutions - Dusty McIntu			Permian Water Solutions	Tetra Tech, Inc
# CONTAINERS # CONTAINERS FILTERED (Y/N) X	Received by:	Received by:		9/19/2022	9/19/2022		SAMPLING		Ħ.	Project #:		Site Manager	•
# CONTAINERS FILTERED (Y/N)		_ _ _				SOIL HCL HNO ₃ ICE		Peyton Oliver		212C-MD-02230	Sonzales@tetratech.com	Clair Gonzales	Midland, Texas 79705 Tel (432) 682-4559 Few /4331 683-3046
TCLP Semi Volatiles	Sample Temperature Control of Properature Control of Properature	LAB USE	890-3010 Chain			FILTERED (BTEX 8021B TPH TX1005 TPH 8015M PAH 8270C Total Metals TCLP Metals TCLP Volatile	Y/N) B BTE 5 (Ext to (GRO - Ag As E Ag As ees	EX 8260B C35) - DRO - ORO - M Ba Cd Cr Pb Se H Ba Cd Cr Pb Se	-lg			70	

Page 20 of 22

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	N/A

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<6mm (1/4").

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-3010-1 SDG Number: Lea County NM

List Source: Eurofins Midland

List Source: Eurotins Midiand
List Creation: 09/21/22 11:23 AM

List Number: 2 Creator: Rodriguez, Leticia

Login Number: 3010

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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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

JURAMER

Authorized for release by: 10/3/2022 6:54:20 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

10/3/2022 6:54:20 PM

Ask The Expert

Have a Question?

EOL

.....LINKS

Review your project results through

Received by OCD: 8/29/2023 3:51:49 PM

Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 9/1/2023 3:25:35 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.

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

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**

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)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) Minimum Detectable Concentration (Radiochemistry) MDC

MDL Method Detection Limit MI 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 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: 890-3011-1

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 Sample Results

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)			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 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
Method: 8015 NM - Diesel Range			RI	MDI	Unit	n	Prenared	Analyzed	Dil Fac
_			RI	MDI	Unit	n	Prenared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH		Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 09/23/22 12:25	Dil Fac
Analyte	Result <49.9	Qualifier U		MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result <49.9 ge Organics (D	Qualifier U		MDL MDL	mg/Kg	<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: 8015B NM - Diesel Ran	Result <49.9 ge Organics (D	Qualifier U RO) (GC) Qualifier	49.9		mg/Kg	=	<u> </u>	09/23/22 12:25	1 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	49.9		mg/Kg	=	Prepared	09/23/22 12:25 Analyzed	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 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 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 09/22/22 08:45	09/23/22 12:25 Analyzed 09/22/22 20:34 09/22/22 20:34	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 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 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 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 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 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 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	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	

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

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Lab Sample ID: 890-3011-2

3

4

7

0

10

12

1 1

Matrix: Solid

Lab Sample ID: 890-3011-2

09/22/22 08:45

09/22/22 21:39

Matrix: Solid

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

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

Method: Total	RTFX - Tota	I RTFX (Calculation

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

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	<49.9	U	49.9		mg/Kg			09/23/22 12:25	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		09/22/22 08:45	09/22/22 21:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/22/22 08:45	09/22/22 21:39	1
Oll 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 Chromatography - Soluble											
	Analyte	Result	Qualifier	RL	MDL	Unit		D	Prepared	Analyzed	Dil Fac

Chloride 20.1

5.00 09/23/22 23:27 mg/Kg Client Sample ID: H-3 (0-2') Lab Sample ID: 890-3011-3

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 0 - 2

Mathadi 0004D	Valatile Overen	ic Compounds (GC)
Memoo: Auzib	- voianie Urdan	ic Compounds (GC)

wethou: 8021B - volatile Orga	inic Compounds ((GC)							
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 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

Method:	Total R	TFY - T	ntal RT	FX Calcu	ılation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00398	U	0.00398		ma/Ka			10/01/22 19:48	1

Analyte	Result Qu	alifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			09/23/22 12:25	1

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')

Date Collected: 09/19/22 00:00

Lab Sample ID: 890-3011-4

Matrix: Solid

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)			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 B1	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

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 C	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 Range	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		09/22/22 08:45	09/22/22 22:22	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		09/22/22 08:45	09/22/22 22:22	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9		49.9		ma/Ka		09/22/22 08:45	09/22/22 22:22	

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Analyzed

09/22/22 22:22

09/22/22 22:22

Prepared

09/22/22 08:45

09/22/22 08:45

Dil Fac

Limits

70 - 130

70 - 130

%Recovery Qualifier

105

115

4

_

0

11

13

Surrogate

1-Chlorooctane

o-Terphenyl

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-3011-1

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

Lab Sample ID: 890-3011-4

Matrix: Solid

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 Fac
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	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 08:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/28/22 14:59	10/01/22 08:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 08:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/28/22 14:59	10/01/22 08:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
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 BTE	(Calculation								
motilod: Total BTEX Total BTE									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result <0.00400		RL 0.00400	MDL	Unit mg/Kg	D	Prepared	Analyzed 10/01/22 19:48	
Analyte Total BTEX	<0.00400	U		MDL		<u>D</u>	Prepared		
Analyte	<0.00400 Organics (DR	U				<u>D</u> 	Prepared Prepared		1
Analyte Total BTEX Method: 8015 NM - Diesel Range	<0.00400 Organics (DR	U O) (GC) Qualifier	0.00400		mg/Kg			10/01/22 19:48	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH	<0.00400 Organics (DR Result <50.0	U O) (GC) Qualifier U	0.00400		mg/Kg			10/01/22 19:48 Analyzed	1 Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range	<0.00400 Organics (DR Result <50.0 ge Organics (D	U O) (GC) Qualifier U	0.00400	MDL	mg/Kg			10/01/22 19:48 Analyzed	1 Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte	<0.00400 Organics (DR Result <50.0 ge Organics (D	O) (GC) Qualifier U RO) (GC) Qualifier	0.00400 RL 50.0	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 Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<0.00400 c Organics (DR Result <50.0 ge Organics (D Result	O) (GC) Qualifier U RO) (GC) Qualifier U	0.00400 RL 50.0	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
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	<0.00400 s Organics (DR Result <50.0 ge Organics (D Result <50.0	U O) (GC) Qualifier U RO) (GC) Qualifier U	0.00400 RL 50.0	MDL	mg/Kg Unit mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared 09/22/22 08:45	Analyzed 09/23/22 12:25 Analyzed 09/22/22 22:43	Dil Fac
Analyte Total BTEX 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)	<0.00400 c Organics (DR Result <50.0 ge Organics (D Result <50.0 <p><50.0</p>	U O) (GC) Qualifier U RO) (GC) Qualifier U U U	0.00400 RL 50.0 RL 50.0	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared Prepared 09/22/22 08:45	10/01/22 19:48 Analyzed 09/23/22 12:25 Analyzed 09/22/22 22:43 09/22/22 22:43	Dil Fac
Analyte Total BTEX 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)	<0.00400 c Organics (DR Result <50.0 ge Organics (D Result <50.0 <50.0 <50.0	U O) (GC) Qualifier U RO) (GC) Qualifier U U U	0.00400 RL 50.0 RL 50.0 50.0	MDL	mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg	<u>D</u>	Prepared Prepared 09/22/22 08:45 09/22/22 08:45	Analyzed 09/23/22 12:25 Analyzed 09/22/22 22:43 09/22/22 22:43	Dil Fac

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Analyzed 09/23/22 23:42

RL

5.03

MDL Unit

mg/Kg

D

Prepared

Result Qualifier

17.0

Dil Fac

Analyte

Chloride

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 BTEX	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
Analyte							Duamanad	A a l a al	DUE
		Qualifier	RL	MDL		D	Prepared	Analyzed	
Total TPH	<50.0		50.0	MDL	mg/Kg	<u>D</u>	Prepared	Analyzed 09/23/22 12:25	
	<50.0	U		MDL		D	Prepared		
Total TPH	<50.0	U		MDL	mg/Kg	D	Prepared Prepared		1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<50.0	RO) (GC) Qualifier	50.0		mg/Kg			09/23/22 12:25	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	RO) (GC) Qualifier	50.0		mg/Kg		Prepared	09/23/22 12:25 Analyzed	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	RO) (GC) Qualifier U	50.0 RL 50.0 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 09/22/22 23:05	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 <50.0	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
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 <80.0 %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 09/22/22 08:45	09/23/22 12:25 Analyzed 09/22/22 23:05 09/22/22 23:05	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 (D) 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 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
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 <80.0 %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 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
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	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 <50.0 <70.0 *Recovery 115 126 omatography -	COUDIE	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
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	<50.0 ge Organics (D) Result <50.0 <50.0 <50.0 <50.0 <70.0 *Recovery 115 126 omatography -	CONTROL (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 1 Dil Fac 1 1 Dil Fac 1 Dil Fac 1 Dil Fac

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

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

Matrix: Solid

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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 Qual	lifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	88	70 - 130	09/28/22 14:59	10/01/22 09:37	1

Mathad:	Total	RTFY.	. Total	RTEY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	כ	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg		_	10/01/22 19:48	1

Method: 8015 NM - Diesel	Range Organics (DRO) (GO	2)

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 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 (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/22/22 08:45	09/22/22 23:26	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/22/22 08:45	09/22/22 23:26	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		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

o-Terphenyl	93	70 - 130	09/22/2	22 08:45	09/22/22 23:26	1	
Method: 300.0 - Anions, Ion Chromatograph	ny - Soluble						

Analyte	Result Qualifier	KL	MDL Unit	U	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

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	<0.00200	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)			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

Method: Tot	al RTFY -	Total RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00401	U	0.00401		ma/Ka			10/01/22 19:48	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	94.3	50.0	mg/Kg			09/23/22 12:25	1

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	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 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

Client: Tetra Tech, Inc.
Project/Site: Kaiser SWD

Job ID: 890-3011-1 SDG: Lea County NM

SDG: Lea County NM

Lab Sample ID: 890-3011-9

Client Sample ID: BH-192 (8')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Sample Depth: 8

Method: 300.0 - Anions, 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')

Date Collected: 09/19/22 00:00

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	1
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			10/01/22 19:48	•
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	64.0		50.0		mg/Kg			09/23/22 12:25	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		09/22/22 08:45	09/23/22 01:56	1
Diesel Range Organics (Over C10-C28)	64.0		50.0		mg/Kg		09/22/22 08:45	09/23/22 01:56	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/22/22 08:45	09/23/22 01:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				09/22/22 08:45	09/23/22 01:56	1
o-Terphenyl	94		70 - 130				09/22/22 08:45	09/23/22 01:56	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	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)			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 BTE	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	
Method: 8015 NM - Diesel Rang	ge Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	986		49.9		mg/Kg			09/23/22 12:25	
Method: 8015B NM - Diesel Rar	nge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/22/22 08:45	09/23/22 02:40	
Diesel Range Organics (Over C10-C28)	817		49.9		mg/Kg		09/22/22 08:45	09/23/22 02:40	
Oll Range Organics (Over C28-C36)	169		49.9		mg/Kg		09/22/22 08:45	09/23/22 02:40	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	106		70 - 130				09/22/22 08:45	09/23/22 02:40	
o-Terphenyl	117		70 - 130				09/22/22 08:45	09/23/22 02:40	
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Allalyte	Result	Quannon			O.I.I.	_	i iopaioa	raidiyeda	D

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

Matrix: Solid

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Lab Sample ID: 890-3011-12

Lab Sample ID: 890-3011-13

Matrix: Solid

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-195 (8')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 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
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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/K	g		10/01/22 19:48	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result Qua	lifier 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 (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

ı	Carrogate	,	4	
	1-Chlorooctane	87		70 - 130
l	o-Terphenyl	94		70 - 130

Amalusta	Desuit Ouslities	DI.	MDI II!4		Danagara	A so a la ses al	D:: F	
Method: 300.0 - Anions, Ion Chromatogra	phy - Soluble							
o-respiretty)	34	70 - 130		,	03/22/22 00.40	09/23/22 00:09	,	
o-Terphenvi	94	70 - 130			09/22/22 08:45	09/23/22 00:09	1	

	Analyte	Result Qualifier	NL	MDL OIII	 riepaieu	Allalyzeu	Dil Fac
l	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

=	
Method: 8021B - Volatile Organic Compounds (GC)	1

nic Compounds ((GC)							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 13:34	1
<0.00200	U *-	0.00200		mg/Kg		09/28/22 14:59	10/01/22 13:34	1
<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 13:34	1
<0.00400	U	0.00400		mg/Kg		09/28/22 14:59	10/01/22 13:34	1
<0.00200	U	0.00200		mg/Kg		09/28/22 14:59	10/01/22 13:34	1
<0.00400	U	0.00400		mg/Kg		09/28/22 14:59	10/01/22 13:34	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
122		70 - 130				09/28/22 14:59	10/01/22 13:34	1
90		70 - 130				09/28/22 14:59	10/01/22 13:34	1
	Result <0.00200 <0.00200 <0.00200 <0.00400 <0.00200 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400 <0.00400		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 U

Method:	Total R	TFY - T	ntal RT	FX Calcu	ılation

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 O	rganics (DRO) (GC)
	. 5 (, (,

Analyte	Result (Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8 U	U	49.8	mg/Kg			09/23/22 12:25	1

Lab Sample ID: 890-3011-13

09/24/22 00:41

Matrix: Solid

Lab Sample ID: 890-3011-14

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
- Mathada 200 0 - Aniana Jan Chua		Oalubla							
Method: 300.0 - Anions, Ion Chro	omatograpny -	Soluble							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

25.2

mg/Kg

1110

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

Chloride

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	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	09/23/22 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

Eurofins Carlsbad

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10

12

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

Lab Sample ID: 890-3011-14

Matrix: Solid

Method: 300.0 - Anions, Ion Chror	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1710		24.9		mg/Kg			09/24/22 00:46	5

Client Sample ID: BH-198 (4.5') Lab Sample ID: 890-3011-15 **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 Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/28/22 14:59	10/01/22 14:26	1
Toluene	<0.00202	U *-	0.00202		mg/Kg		09/28/22 14:59	10/01/22 14:26	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/28/22 14:59	10/01/22 14:26	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		09/28/22 14:59	10/01/22 14:26	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/28/22 14:59	10/01/22 14:26	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		09/28/22 14:59	10/01/22 14:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				09/28/22 14:59	10/01/22 14:26	1
1,4-Difluorobenzene (Surr)	94		70 - 130				09/28/22 14:59	10/01/22 14:26	1
Method: Total BTEX - Total BT	EX Calculation								
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 Ran	ige Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8		49.8		mg/Kg			09/23/22 12:25	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		09/22/22 08:45	09/23/22 01:13	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/22/22 08:45	09/23/22 01:13	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/22/22 08:45	09/23/22 01:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				09/22/22 08:45	09/23/22 01:13	1
o-Terphenyl	95		70 - 130				09/22/22 08:45	09/23/22 01:13	1

RL

25.0

MDL Unit

mg/Kg

D

Prepared

Result Qualifier

4900

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Analyzed

09/24/22 00:51

Dil Fac

Analyte

Chloride

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 Fa
Benzene	<0.00198	U	0.00198		mg/Kg		09/28/22 14:59	10/01/22 14:52	
Toluene	<0.00198	U *-	0.00198		mg/Kg		09/28/22 14:59	10/01/22 14:52	
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		09/28/22 14:59	10/01/22 14:52	
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		09/28/22 14:59	10/01/22 14:52	
o-Xylene	<0.00198	U	0.00198		mg/Kg		09/28/22 14:59	10/01/22 14:52	
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		09/28/22 14:59	10/01/22 14:52	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	126		70 - 130				09/28/22 14:59	10/01/22 14:52	
1,4-Difluorobenzene (Surr)	93		70 - 130				09/28/22 14:59	10/01/22 14:52	
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Method: 8015 NM - Diesel Range	•								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9		mg/Kg			09/23/22 12:25	
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		09/22/22 08:45	09/23/22 01:35	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		09/22/22 08:45	09/23/22 01:35	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/22/22 08:45	09/23/22 01:35	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	90		70 - 130				09/22/22 08:45	09/23/22 01:35	
o-Terphenyl	100		70 - 130				09/22/22 08:45	09/23/22 01:35	
Method: 300.0 - Anions, Ion Chro									
Analyte		Qualifier		MDL	Unit mg/Kg	D	Prepared	Analyzed	Dil Fa
Chloride	528							09/24/22 00:55	

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

Job ID: 890-3011-1

SDG: Lea County NM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Client Sample ID: BH-200 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22 REMOVED FROM **ANALYSIS TABLE**

Lab Sample ID: 890-3011-17

Matrix: Solid

Sample Depth: 4.5

Method: 8021B - Vo	olatile Organic (Compounds (G	C) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	87	70 - 130	09/28/22 14:59	10/01/22 16:10	10

Mathod:	Total RTFY	- Total BTEX	Calculation
mictilou.	TOTAL DIEN	- IUIUI DI LA	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepare	d Analyzed	Dil Fac
Total BTEX	0.169		0.0402		mg/Kg			10/01/22 19:48	1

Method: 8015 NM - Diese	I Range Organics (DRO) (GC)
motifical contribution bicot	in italigo organios (bito) (oo)

Analyte	Result Quali	ifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2290	50.0	mg/Kg			09/23/22 12:25	1

Mothod: 004ED	NM - Diesel Ran	as Orasnics	
Method: out ob	NIVI - Diesei Kan	ue Organics	IDKUI IGGI

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 03:23	1
Diesel Range Organics (Over C10-C28)	2020		50.0		mg/Kg		09/22/22 08:45	09/23/22 03:23	1
Oll Range Organics (Over C28-C36)	267		50.0		mg/Kg		09/22/22 08:45	09/23/22 03:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepare	ed	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	09/22/22 0	08:45 09	9/23/22 03:23	1
o-Terphenyl	90		70 - 130	09/22/22 (08:45 09	9/23/22 03:23	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3220	25.1	mg/Kg			09/23/22 19:57	5

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

Method: 8021B -	Volatile Organic	Compounds	(GC)
motiloa. ooz ib	Tolutile Organie	Compounds	100

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

Mothod:	Total	RTFY.	. Total	RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D)	Prepared	Analyzed	Dil Fac
Total BTEX	1.78		0.0399		mg/Kg				10/01/22 19:48	1

Client Sample Results

Client: Tetra Tech, Inc. Job ID: 890-3011-1 Project/Site: Kaiser SWD SDG: Lea County NM

RL

49.9

RL

49.9

49.9

49.9

RL

24.8

Limits

70 - 130

70 - 130

MDL Unit

MDL Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

MDL Unit

mg/Kg

D

D

D

Prepared

Prepared

09/22/22 08:45

09/22/22 08:45

09/22/22 08:45

Prepared

09/22/22 08:45

09/22/22 08:45

Prepared

Client Sample ID: BH-201 (4.5')

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Method: 300.0 - Anions, Ion Chromatography - Soluble

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22 Sample Depth: 4.5

Analyte

Analyte

C10-C28)

C28-C36)

Surrogate

o-Terphenyl

Analyte

Chloride

1-Chlorooctane

(GRO)-C6-C10

Gasoline Range Organics

Oll Range Organics (Over

Diesel Range Organics (Over

Total TPH

REMOVED FROM ANALYSIS TABLE

Result Qualifier

Result Qualifier

Qualifier

2040

117

1690

234

96

94

3480

Result Qualifier

%Recovery

Lab Sample ID: 890-3011-18

Analyzed 09/23/22 12:25

Analyzed

09/23/22 03:44

09/23/22 03:44

09/23/22 03:44

Analyzed

09/23/22 03:44

09/23/22 03:44

Analyzed

09/23/22 20:11

Matrix: Solid

	5
Dil Fac 1	6
Dil Fac	
1	8
1	9
1	4 6
Dil Fac	

Lab Sample ID: 890-3011-19

Matrix: Solid

Dil Fac

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 BTEX Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	
Analyte Total BTEX Method: 8015 NM - Diesel Range	Result <0.00398 Organics (DR	U) (GC)	0.00398		mg/Kg		<u> </u>	10/01/22 19:48	1
Analyte Total BTEX	Result <0.00398 Organics (DR	O) (GC) Qualifier		MDL	mg/Kg	<u>D</u>	Prepared Prepared		Dil Fac Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte	Result <0.00398 Organics (DR) Result <49.9 e Organics (DI)	O) (GC) Qualifier	0.00398		mg/Kg Unit mg/Kg		<u> </u>	10/01/22 19:48 Analyzed	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <0.00398 Organics (DR) Result <49.9 e Organics (DI)	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 Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result <0.00398 Organics (DR) Result <49.9 e Organics (DI) Result <49.9	Qualifier U RO) (GC) Qualifier U Qualifier U Qualifier U	0.00398 RL 49.9 RL 49.9	MDL	mg/Kg Unit mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared 09/23/22 11:03	Analyzed 09/23/22 12:25 Analyzed 09/24/22 11:43	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <0.00398 Organics (DR) Result <49.9 e Organics (DI) Result	Qualifier U RO) (GC) Qualifier U Qualifier U 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

Matrix: Solid

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-3011-1

SDG: Lea County NM

Lab Sample ID: 890-3011-19

Lab Sample ID: 890-3011-20

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

Surrogate	%Recovery	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 Chrom	atography -	Soluble							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	3130		25.0		mg/Kg			09/23/22 20:16	5

Client Sample ID: BH-203 (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 Fa
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	K 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: 2015 NM Diesel Bongs	Organica (DB)	0) (CC)							
Method: 8015 NM - Diesel Range Analyte		Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH			49.9	WIDE	mg/Kg		rrepareu	09/23/22 12:25	Dilla
	40.0	O	40.0		mg/rtg			03/20/22 12.20	
Method: 8015B NM - Diesel Rang									
	ge Organics (D	RO) (GC)							
Analyte	•	RO) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte Gasoline Range Organics	•	Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared 09/23/22 11:03	Analyzed 09/24/22 12:48	
Analyte Gasoline Range Organics (GRO)-C6-C10	Result	Qualifier U		MDL	mg/Kg	<u>D</u>			
Analyte Gasoline Range Organics	Result <49.9	Qualifier U	49.9	MDL		<u>D</u>	09/23/22 11:03	09/24/22 12:48	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9	Qualifier U	49.9	MDL	mg/Kg	<u>D</u>	09/23/22 11:03	09/24/22 12:48	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 <49.9	Qualifier U U U	49.9	MDL	mg/Kg mg/Kg	<u>D</u>	09/23/22 11:03 09/23/22 11:03	09/24/22 12:48	
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	Qualifier U U U	49.9 49.9 49.9	MDL	mg/Kg mg/Kg	<u> </u>	09/23/22 11:03 09/23/22 11:03 09/23/22 11:03	09/24/22 12:48 09/24/22 12:48 09/24/22 12:48	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9 <49.9 <49.9 <49.9 %Recovery	Qualifier U U U	49.9 49.9 49.9 <i>Limits</i>	MDL	mg/Kg mg/Kg	<u>D</u>	09/23/22 11:03 09/23/22 11:03 09/23/22 11:03 Prepared	09/24/22 12:48 09/24/22 12:48 09/24/22 12:48 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 <49.9 <49.9 <49.9 <49.9 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0	Qualifier U U Qualifier	49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg mg/Kg	<u> </u>	09/23/22 11:03 09/23/22 11:03 09/23/22 11:03 Prepared 09/23/22 11:03	09/24/22 12:48 09/24/22 12:48 09/24/22 12:48 Analyzed 09/24/22 12:48	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	Qualifier U U Qualifier	49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	09/23/22 11:03 09/23/22 11:03 09/23/22 11:03 Prepared 09/23/22 11:03	09/24/22 12:48 09/24/22 12:48 09/24/22 12:48 Analyzed 09/24/22 12:48	Dil Fa

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-3011-1

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 Sample Depth: 4.5 REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-3011-21

Matrix: Solid

Solid

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	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.0200	U *-	0.0200		mg/Kg		09/28/22 16:17	10/01/22 22:31	1
Toluene	<0.0200	U	0.0200		mg/Kg		09/28/22 16:17	10/01/22 22:31	1
Ethylbenzene	<0.0200	U	0.0200		mg/Kg		09/28/22 16:17	10/01/22 22:31	1
m-Xylene & p-Xylene	0.0689		0.0399		mg/Kg		09/28/22 16:17	10/01/22 22:31	1
o-Xylene	0.170		0.0200		mg/Kg		09/28/22 16:17	10/01/22 22:31	1
Xylenes, Total	0.239		0.0399		mg/Kg		09/28/22 16:17	10/01/22 22:31	1
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	1
1,4-Difluorobenzene (Surr)	96		70 - 130				09/28/22 16:17	10/01/22 22:31	1
Method: Total BTEX - Total BTI	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	0.239		0.0399		mg/Kg			10/01/22 19:48	
Method: 8015 NM - Diesel Rang	ge Organics (DR	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	857		50.0		mg/Kg			09/23/22 12:25	
-									
Method: 8015B NM - Diesel Rai	nge Organics (D	RO) (GC)							
		RO) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	
Analyte		Qualifier	RL	MDL	Unit mg/Kg	D	Prepared 09/22/22 11:26	Analyzed 09/24/22 05:14	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10	Result	Qualifier	50.0	MDL		<u>D</u>	<u>.</u>		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)		Qualifier	50.0	MDL	mg/Kg	<u> </u>	09/22/22 11:26	09/24/22 05:14	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	Result <50.0 739	Qualifier	50.0	MDL	mg/Kg	<u>D</u>	09/22/22 11:26 09/22/22 11:26	09/24/22 05:14 09/24/22 05:14	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 739	Qualifier U	50.0	MDL	mg/Kg	<u>D</u>	09/22/22 11:26 09/22/22 11:26	09/24/22 05:14 09/24/22 05:14	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 739 118	Qualifier U	50.0 50.0 50.0	MDL	mg/Kg	<u> </u>	09/22/22 11:26 09/22/22 11:26 09/22/22 11:26	09/24/22 05:14 09/24/22 05:14 09/24/22 05:14	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0 739 118 %Recovery	Qualifier U	50.0 50.0 50.0	MDL	mg/Kg	<u>D</u>	09/22/22 11:26 09/22/22 11:26 09/22/22 11:26 Prepared	09/24/22 05:14 09/24/22 05:14 09/24/22 05:14 Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U Qualifier	50.0 50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg	<u>D</u>	09/22/22 11:26 09/22/22 11:26 09/22/22 11:26 09/22/22 11:26 Prepared 09/22/22 11:26	09/24/22 05:14 09/24/22 05:14 09/24/22 05:14 Analyzed 09/24/22 05:14	Dil Fa
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 Qualifier	50.0 50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	09/22/22 11:26 09/22/22 11:26 09/22/22 11:26 09/22/22 11:26 Prepared 09/22/22 11:26	09/24/22 05:14 09/24/22 05:14 09/24/22 05:14 Analyzed 09/24/22 05:14	Dil Fa

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)

Wethod: 0021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.200	U *+ *1	0.200		mg/Kg		09/29/22 16:18	10/03/22 19:15	100
Toluene	1.92	*+ *1	0.200		mg/Kg		09/29/22 16:18	10/03/22 19:15	100
Ethylbenzene	3.18	*+ *1	0.200		mg/Kg		09/29/22 16:18	10/03/22 19:15	100
m-Xylene & p-Xylene	17.6	*+ *1	0.399		mg/Kg		09/29/22 16:18	10/03/22 19:15	100
o-Xylene	8.12	*+ *1	0.200		mg/Kg		09/29/22 16:18	10/03/22 19:15	100
Xylenes, Total	25.7	*+ *1	0.399		mg/Kg		09/29/22 16:18	10/03/22 19:15	100
o-Xylene	8.12	*+ *1	0.200		mg/Kg		09/29/22 16:18	10/03/22 19:15	100

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-3011-1 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

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-3011-22

Matrix: Solid

Sample Depth: 4.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	155	S1+	70 - 130	09/29/22 16:18	10/03/22 19:15	100
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 0.399 10/01/22 19:48 **Total BTEX** 30.8 mg/Kg

Method: 8015 NM - Diesel Range Organics (DRO) (GC) Dil Fac Result Qualifier RL **MDL** Unit D Prepared Analyzed **Total TPH** 3640 49.9 mg/Kg 09/23/22 12:25

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier Analyte

MDL Unit RL D Prepared Analyzed Dil Fac 49.9 09/22/22 11:26 09/24/22 04:09 **Gasoline Range Organics** 582 mg/Kg (GRO)-C6-C10 **Diesel Range Organics (Over** 2690 49.9 mg/Kg 09/22/22 11:26 09/24/22 04:09 C10-C28) **Oll Range Organics (Over** 372 49.9 mg/Kg 09/22/22 11:26 09/24/22 04:09 C28-C36)

Qualifier Dil Fac Limits Prepared Analyzed Surrogate %Recovery 09/22/22 11:26 1-Chlorooctane 120 70 - 130 09/24/22 04:09 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 RL MDL Unit Prepared Analyzed Dil Fac 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

Met	hod:	8021B -	Volatile	Organic	Compounds	(GC)

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	n
Analyte Res	su

Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac 0.0398 10/01/22 19:48 **Total BTEX** 2.24 mg/Kg

Client Sample Results

Job ID: 890-3011-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: BH-206 (4.5')

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22 Sample Depth: 4.5

Analyte

Total TPH

REMOVED FROM ANALYSIS TABLE

Result Qualifier

1390

Lab Sample ID: 890-3011-23

Matrix: Solid

RL MDL Dil Fac Unit D Prepared Analyzed 50.0 09/23/22 12:25 mg/Kg

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit Dil Fac Prepared Analyzed 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 09/22/22 11:26 09/24/22 04:31 1060 mg/Kg 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 Dil Fac Surrogate %Recovery Prepared Analyzed 1-Chlorooctane 70 - 130 09/22/22 11:26 95 09/24/22 04:31 o-Terphenyl 94 09/22/22 11:26 70 - 130 09/24/22 04:31

Method: 300.0 - Anions, Ion Chromatography - Soluble RL MDL Unit Analyte Result Qualifier D Prepared Analyzed Dil Fac 1930 Chloride 25.0 mg/Kg 09/23/22 20:46 5

Lab Sample ID: 890-3011-24

Matrix: Solid

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Client Sample ID: BH-207 (4.5')

Sample Depth: 4.5

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 Calculation										
	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 Organics (DRO) (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 (DRO) (GC)										
Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac			
<50.0	U	50.0	mg/Kg		09/22/22 11:26	09/24/22 03:26	1			
<50.0	U	50.0	mg/Kg		09/22/22 11:26	09/24/22 03:26	1			
<50.0	U	50.0	mg/Kg		09/22/22 11:26	09/24/22 03:26	1			
	Result <50.0 <50.0	Organics (DRO) (GC)	Result Qualifier RL <50.0	Result Qualifier RL MDL Unit <50.0	Result Qualifier RL MDL mg/Kg Unit D <50.0	Result Qualifier RL MDL Unit D Prepared <50.0	Result Qualifier RL MDL mode Unit mg/Kg D mg/Kg Prepared Prepared mg/Kg Analyzed 09/22/22 11:26 <50.0			

Matrix: Solid

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

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
o-Terphenyl	111		70 - 130	09/22/22 11:26	09/24/22 03:26	1

	_									
Method: 300.0 - Anions, Ion Chromatography - 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	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 BT	EX 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	<50.0	U	50.0		mg/Kg			09/23/22 12:25	1
Method: 8015B NM - Diesel Rang	e Organics (DI	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
O II D O I							00/00/00 44:00	00/04/00 05:00	

Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	09/22/22 11:26	09/24/22 05:36	1
C10-C28)	<50.0	U	50.0	ma/Ka	09/22/22 11:26	09/24/22 05:36	1
(GRO)-C6-C10 Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg	09/22/22 11:26	09/24/22 05:36	1
Gasoline Range Organics	<50.0	U	50.0	mg/Kg	09/22/22 11:26	09/24/22 05:36	1

Method: 300.0 - Anions, Ion Chrom	natography - Solu	uble						
Analyte	Result Qua	alifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	330	4.96		mg/Kg			09/23/22 20:56	1

70 - 130

115

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o-Terphenyl

Matrix: Solid

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

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 01:22	
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	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/28/22 16:17	10/02/22 01:22	
o-Xylene	< 0.00199	U	0.00199		mg/Kg		09/28/22 16:17	10/02/22 01:22	
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 Fa
4-Bromofluorobenzene (Surr)	108		70 - 130				09/28/22 16:17	10/02/22 01:22	-
1,4-Difluorobenzene (Surr)	96		70 - 130				09/28/22 16:17	10/02/22 01:22	
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	
Method: 8015 NM - Diesel Ranç Analyte	Result	O) (GC) Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	
Analyte Total TPH	Result 436	Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 09/23/22 12:25	
Analyte	Result 436 nge Organics (Di	Qualifier RO) (GC)		MDL		<u>D</u>	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rai Analyte	Result 436 nge Organics (Di Result	Qualifier RO) (GC) Qualifier	49.9	MDL	mg/Kg	<u>D</u>	Prepared	09/23/22 12:25 Analyzed	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rai Analyte Gasoline Range Organics	Result 436 nge Organics (Di	Qualifier RO) (GC) Qualifier	49.9		mg/Kg		· ·	09/23/22 12:25	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rai Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 436 nge Organics (Di Result	Qualifier RO) (GC) Qualifier	49.9		mg/Kg		Prepared	09/23/22 12:25 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	Result 436 nge Organics (Di Result <49.9	Qualifier RO) (GC) Qualifier	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 09/22/22 11:26	09/23/22 12:25 Analyzed 09/24/22 04:53	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)	Result 436 nge Organics (Di Result <49.9	Qualifier RO) (GC) Qualifier U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 09/22/22 11:26 09/22/22 11:26	09/23/22 12:25 Analyzed 09/24/22 04:53	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 436	Qualifier RO) (GC) Qualifier U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 09/22/22 11:26 09/22/22 11:26 09/22/22 11:26	09/23/22 12:25 Analyzed 09/24/22 04:53 09/24/22 04:53	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rai	Result 436	Qualifier RO) (GC) Qualifier U	49.9 RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 09/22/22 11:26 09/22/22 11:26 09/22/22 11:26 Prepared	09/23/22 12:25 Analyzed 09/24/22 04:53 09/24/22 04:53 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 C28-C36) Surrogate 1-Chlorooctane	Result 436 436 436 436 436 436	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 09/22/22 11:26 09/22/22 11:26 09/22/22 11:26 Prepared 09/22/22 11:26	09/23/22 12:25 Analyzed 09/24/22 04:53 09/24/22 04:53 Analyzed 09/24/22 04:53	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	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 11:26 09/22/22 11:26 09/22/22 11:26 Prepared 09/22/22 11:26	09/23/22 12:25 Analyzed 09/24/22 04:53 09/24/22 04:53 Analyzed 09/24/22 04:53	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

2

3

4

5

10

4.0

13

Matrix: Solid

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-3011-1

SDG: Lea County NM

Lab Sample ID: 890-3011-27

Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	108		70 - 130				09/28/22 16:17	10/02/22 01:42	
1,4-Difluorobenzene (Surr)	98		70 - 130				09/28/22 16:17	10/02/22 01:42	
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Total BTEX	<0.00401	U	0.00401		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 Fa
Total TPH	<49.9 ge Organics (DI		49.9		mg/Kg			09/23/22 12:25	
Total TPH Method: 8015B NM - Diesel Rang			49.9		mg/Kg			09/23/22 12:25	
Total TPH Method: 8015B NM - Diesel Ranç Analyte	ge Organics (DI	RO) (GC) Qualifier	49.9 RL 49.9	MDL	Unit	<u>D</u>	Prepared 09/21/22 15:33	09/23/22 12:25 Analyzed 09/22/22 03:11	Dil Fa
Total TPH Method: 8015B NM - Diesel Rang	ge Organics (DI Result	RO) (GC) Qualifier	RL	MDL		<u>D</u>		Analyzed	Dil Fa
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (DI Result	RO) (GC) Qualifier	RL	MDL	Unit	<u>D</u>		Analyzed	Dil Fa
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	<u>D</u>	09/21/22 15:33 09/21/22 15:33	Analyzed 09/22/22 03:11 09/22/22 03:11	Dil Fa
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (DI Result <49.9	RO) (GC) Qualifier U	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	09/21/22 15:33	Analyzed 09/22/22 03:11	Dil F
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>	09/21/22 15:33 09/21/22 15:33	Analyzed 09/22/22 03:11 09/22/22 03:11	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)	ge Organics (DI Result <49.9 <49.9	RO) (GC) Qualifier U	RL 49.9 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	09/21/22 15:33 09/21/22 15:33 09/21/22 15:33	Analyzed 09/22/22 03:11 09/22/22 03:11 09/22/22 03:11	

5.02 Client Sample ID: SW-74 (8-13') Lab Sample ID: 890-3011-28

RL

Result Qualifier

394

<50.0 U

MDL Unit

mg/Kg

mg/Kg

D

Prepared

Analyzed

09/23/22 21:05

Dil Fac

Matrix: Solid

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Method: 300.0 - Anions, Ion Chromatography - Soluble

Sample Depth: 8 - 13

Analyte

Chloride

Total TPH

<0.00199	U *-							
	0 -	0.00199		mg/Kg		09/28/22 16:17	10/02/22 02:03	1
< 0.00199	U	0.00199		mg/Kg		09/28/22 16:17	10/02/22 02:03	1
<0.00199	U	0.00199		mg/Kg		09/28/22 16:17	10/02/22 02:03	1
<0.00398	U	0.00398		mg/Kg		09/28/22 16:17	10/02/22 02:03	1
<0.00199	U	0.00199		mg/Kg		09/28/22 16:17	10/02/22 02:03	1
<0.00398	U	0.00398		mg/Kg		09/28/22 16:17	10/02/22 02:03	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
108		70 - 130				09/28/22 16:17	10/02/22 02:03	1
99		70 - 130				09/28/22 16:17	10/02/22 02:03	1
Calculation								
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00398	U	0.00398		mg/Kg			10/01/22 19:48	1
	<0.00398 <0.00199 <0.00398 **Recovery 108 99 Calculation Result	<0.00398 U <0.00199 U <0.00398 U **Recovery Qualifier** 108 99	<0.00398	<0.00398	<0.00398	<0.00398	<0.00398	<0.00398

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09/23/22 12:25

50.0

Matrix: Solid

Job ID: 890-3011-1 Client: Tetra Tech, Inc. 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									
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		09/21/22 15:33	09/22/22 03:32	1

<50.0 U 50.0 09/21/22 15:33 09/22/22 03:32 Diesel Range Organics (Over mg/Kg C10-C28) mg/Kg Oll Range Organics (Over C28-C36) <50.0 U 50.0 09/21/22 15:33 09/22/22 03:32

%Recovery Qualifier Analyzed Dil Fac Limits Prepared Surrogate 1-Chlorooctane 70 - 130 09/21/22 15:33 09/22/22 03:32 121 o-Terphenyl 132 S1+ 70 - 130 09/21/22 15:33 09/22/22 03:32

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed Chloride 1800 25.2 mg/Kg 09/23/22 21:20

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

REMOVED FROM **ANALYSIS TABLE** Lab Sample ID: 890-3011-29

Lab Sample ID: 890-3011-28

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac <0.0199 U *-0.0199 09/28/22 16:17 10/02/22 04:26 Benzene mg/Kg 10 <0.0199 Toluene 0.0199 mg/Kg 09/28/22 16:17 10/02/22 04:26 10 0.0199 10/02/22 04:26 Ethylbenzene 0.390 mg/Kg 09/28/22 16:17 10 0.0398 09/28/22 16:17 10/02/22 04:26 m-Xylene & p-Xylene 2.35 mg/Kg 10 10/02/22 04:26 o-Xylene 0.839 0.0199 ma/Ka 09/28/22 16:17 10 **Xylenes, Total** 3.19 0.0398 mg/Kg 09/28/22 16:17 10/02/22 04:26 10 Qualifier Limits Prepared Analyzed Dil Fac Surrogate %Recovery 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 Qualifier MDL Unit Result D Prepared Analyzed Dil Fac 0.0398 10/01/22 19:48 **Total BTEX** 3.58 mg/Kg Method: 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 49.9 09/23/22 12:25 **Total TPH** mg/Kg Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac **Gasoline Range Organics** 174 49.9 mg/Kg 09/21/22 15:33 09/22/22 03:53 (GRO)-C6-C10 **Diesel Range Organics (Over** 1020 49.9 mg/Kg 09/21/22 15:33 09/22/22 03:53 C10-C28) **Oll Range Organics (Over** 49 9 mg/Kg 09/21/22 15:33 09/22/22 03:53 142 C28-C36)

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Analyzed

09/22/22 03:53

09/22/22 03:53

Prepared

09/21/22 15:33

09/21/22 15:33

Limits

70 - 130

70 - 130

Dil Fac

%Recovery

101

110

Qualifier

Surrogate

o-Terphenyl

1-Chlorooctane

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-3011-1 SDG: Lea County NM

REMOVED FROM

Lab Sample ID: 890-3011-29

Matrix: Solid

Client Sample ID: SW-75 (0-4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

ANALYSIS TABLE Sample Depth: 0 - 4.5

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	228		4.99		mg/Kg			09/23/22 21:25	1

Client Sample ID: SW-76 (0-4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

Analyte

Gasoline Range Organics

REMOVED FROM ANALYSIS TABLE

Result Qualifier

<50.0 U

Lab Sample ID: 890-3011-30

Analyzed

09/22/22 04:14

Matrix: Solid

Sample Depth: 0 - 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *-	0.00201		mg/Kg		09/28/22 16:17	10/02/22 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

Total BTEX	<0.00402 U	0.00402		mg/Kg			10/01/22 19:48	1
Method: 8015 NM - Diesel F	Range Organics (DRO) (GC)							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	60.1	50.0		mg/Kg			09/23/22 12:25	1
Method: 8015B NM - Diese	I Range Organics (DRO) (GC)							
Δnalvte	Result Qualifier	RI	MDI	Unit	D	Prepared	Analyzed	Dil Fac

MDL Unit

mg/Kg

Prepared

09/21/22 15:33

(GRO)-C6-C10							
Diesel Range Organics (Over	60.1		50.0	mg/Kg	09/21/22 15:33	09/22/22 04:14	1
C10-C28)							
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	09/21/22 15:33	09/22/22 04:14	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130		09/21/22 15:33	09/22/22 04:14	1
o-Temhenyl	114		70 130		09/21/22 15:33	09/22/22 04:14	1

50.0

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3960		49.6		mg/Kg			09/23/22 21:39	10

Eurofins Carlsbad

Dil Fac

Matrix: Solid

Lab Sample ID: 890-3011-31

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 BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH	•	Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 09/23/22 12:25	Dil Fac
Method: 8015B NM - Diesel Rang		RO) (GC)			3 3				
Analyte		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									
Analyte Chloride	Result 3710	Qualifier	RL 24.8	MDL	Unit mg/Kg	D	Prepared	Analyzed 09/23/22 21:44	Dil Fac

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)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	recent ourlogate Necovery (Acceptance Limits)
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
380-19417-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	
990-3011-1 MS	H-1 (0-2')	108	90	
90-3011-1 MSD	H-1 (0-2')	119	97	
990-3011-2	H-2 (0-2')	125	99	
390-3011-3	H-3 (0-2')	113	96	
390-3011-4	H-4 (0-2')	113	91	
390-3011- 4 390-3011-5		116	95	
90-3011-6	H-5 (0-2')			
	H-6 (0-2')	118	95	
90-3011-7	H-7 (0-2')	122	88	
90-3011-8	BH-191 (8')	113	90	
90-3011-9	BH-192 (8')	123	99	
90-3011-10	BH-193 (8')	123	91	
90-3011-11	BH-194 (8')	118	92	
90-3011-12	BH-195 (8')	120	9 S1-	
90-3011-13	BH-196 (4.5')	122	90	
90-3011-14	BH-197 (4.5')	126	91	
90-3011-15	BH-198 (4.5')	121	94	
90-3011-16	BH-199 (4.5')	126	93	
90-3011-17	BH-200 (4.5')	135 S1+	87	
90-3011-18	BH-201 (4.5')	230 S1+	98	
90-3011-19	BH-202 (4.5')	126	94	
90-3011-20	BH-203 (4.5')	120	92	
90-3011-21	BH-204 (4.5')	789 S1+	96	
90-3011-22	BH-205 (4.5')	155 S1+	84	
90-3011-23	BH-206 (4.5')	126	65 S1-	
90-3011-24	BH-207 (4.5')	117	104	
90-3011-25	SW-62 (8-13')	112	105	
90-3011-26	SW-72 (0-8')	108	96	
90-3011-27	SW-73 (6-13')	108	98	
90-3011-28	SW-74 (8-13')	108	99	
90-3011-29	SW-75 (0-4.5')	137 S1+	74	
90-3011-30	SW-76 (0-4.5')	110	95	
90-3011-31	SW-77 (0-4.5')	108	101	
90-3015-A-1-E MS	Matrix Spike	101	94	
90-3015-A-1-F MSD	Matrix Spike Duplicate	108	107	
CS 880-35621/1-A	Lab Control Sample	110	99	
CS 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	
CSD 880-35625/2-A	Lab Control Sample Dup	104	99	
CSD 880-35724/2-A	Lab Control Sample Dup	128	123	
IB 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	
4B 880-35692/5-A	Method Blank	99	83	
	Method Blank	99 70		
MB 880-35720/5-A MB 880-35724/5-A	Method Blank	100	92 76	

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)

				Develop t Survey and a December (Accompany Limite)
		1CO1	ОТРН1	Percent Surrogate Recovery (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	
390-3011-2	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	
390-3011-12	BH-195 (8')	87	94	
890-3011-13	BH-196 (4.5')	96	102	
390-3011-14	BH-197 (4.5')	97	111	
390-3011-15	BH-198 (4.5')	88	95	
390-3011-16	BH-199 (4.5')	90	100	
390-3011-17	BH-200 (4.5')	89	90	
890-3011-18	BH-201 (4.5')	96	94	
390-3011-19	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 880-35262/2-A	Lab Control Sample	107	96	
LCSD 880-35103/3-A	Lab Control Sample Dup	93	105	
LCSD 880-35130/3-A	Lab Control Sample Dup	100	103	
LCSD 880-35172/3-A	Lab Control Sample Dup	106	108	

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)
		1CO1	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 = o-Terphenyl				

Eurofins Carlsbad

Released to Imaging: 9/1/2023 3:25:35 PM

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

ı		MB	MR							
	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

MB MB

Surrogate	%Recovery Qualifier	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

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07727		mg/Kg		77	70 - 130	
Toluene	0.100	0.06855	*-	mg/Kg		69	70 - 130	
Ethylbenzene	0.100	0.07924		mg/Kg		79	70 - 130	
m-Xylene & p-Xylene	0.200	0.1579		mg/Kg		79	70 - 130	
o-Xylene	0.100	0.08291		mg/Kg		83	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		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	

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) (Continued)

Lab Sample ID: 890-3011-1 MS

Client Sample ID: H-1 (0-2') **Matrix: Solid** Prep Type: Total/NA Prep Batch: 35621 Analysis Batch: 35814

	Sample	Sample	Бріке	IVIS	M2				%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	
•						5 0				

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

Client Sample ID: H-1 (0-2') **Matrix: Solid** Prep Type: Total/NA Prep Batch: 35621 Analysis Batch: 35814

	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
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1958		mg/Kg		98	70 - 130	5	35
o-Xylene	<0.00199	U	0.0996	0.09977		mg/Kg		100	70 - 130	6	35

MSD MSD

MB MB

Surrogate	%Recovery	Qualifier	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

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 %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 4-Bromofluorobenzene (Surr) 70 - 130 09/28/22 16:17 101 10/01/22 20:00 1,4-Difluorobenzene (Surr) 114 70 - 130 09/28/22 16:17 10/01/22 20:00

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

1,4-Difluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

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 **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA Prep Batch: 35625 Analysis Batch: 35815

	Бріке	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
o-Xylene	 0.100	0.07531		mg/Kg		75	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-35625/2-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid Prep Type: Total/NA Analysis Batch: 35815 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

III Aylono a p Aylono			0.200	0.1102	1119/119	, ,	
o-Xylene			0.100	0.07431	mg/Kg	74	70 - 1
	LCSD	LCSD					
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	104		70 - 130				
1,4-Difluorobenzene (Surr)	99		70 - 130				

Lab Sample ID: 880-19417-A-1-E MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA Analysis Batch: 35815 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	
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	

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				

70 - 130

105

Lab Sample ID: 880-19417-A-1-F MSD **Client Sample ID: Matrix Spike Duplicate**

Matrix: Solid Prep Type: Total/NA Analysis Batch: 35815 Prep Batch: 35625

	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

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

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 Client Sample ID: Method Blank

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 35815 Prep Batch: 35628 MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/22 16:25	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
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/28/22 16:25	10/01/22 06:46	1

MB MB Qualifier Limits Prepared Analyzed Dil Fac Surrogate %Recovery 09/28/22 16:25 10/01/22 06:46 4-Bromofluorobenzene (Surr) 105 70 - 130 1,4-Difluorobenzene (Surr) 105 70 - 130 09/28/22 16:25 10/01/22 06:46

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	KL	MDL	Unit	D	Prepared	Analyzed	DII 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	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

Client: Tetra Tech, Inc. Job ID: 890-3011-1 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

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
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/29/22 16:18	10/03/22 08:58	1

MB MB

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

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

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 Quar	lifier Limits
4-Bromofluorobenzene (Surr)	128	70 - 130

Eurofins Carlsbad

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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: 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

Surrogate %Recovery Qualifier Limits 1,4-Difluorobenzene (Surr) 123 70 - 130

Client Sample ID: Matrix Spike Lab Sample ID: 890-3015-A-1-E MS Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 35890									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

	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)	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

Matrix: Solid

Analysis Batch: 35007

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 35103

	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		09/21/22 15:33	09/21/22 19:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/21/22 15:33	09/21/22 19:44	1
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

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

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 35103

Client Sample ID: Lab Control Sample Dup

Prep Batch: 35103

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)

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Lab Sample ID: LCS 880-35103/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 35007

_	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1038		mg/Kg		104	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	978.2		mg/Kg		98	70 - 130	
C10-C28)								

Limits

70 - 130

70 - 130

C10-C28)

o-Terphenyl

LCS LCS %Recovery Qualifier Surrogate 1-Chlorooctane 91

Lab Sample ID: LCSD 880-35103/3-A

Matrix: Solid

Analysis Batch: 35007

-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	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	D	%Rec	Limits			
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	962.8		mg/Kg		94	70 - 130			
Diesel Range Organics (Over	<49.9	U	996	1097		mg/Kg		108	70 - 130			

C10-C28)

Surrogate	%Recovery Qua	lifier Limits
1-Chlorooctane	97	70 - 130
o-Terphenyl	102	70 - 130

MS MS

Lab Sample ID: 880-19485-A-21-G MSD

Matrix: Solid Analysis Batch: 35007										ype: To Batch:	
	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	97		70 - 130								

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

Lab Sample ID: MB 880-35130/1-A

Lab Sample ID: LCS 880-35130/2-A

Lab Sample ID: LCSD 880-35130/3-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 35007

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 35103

MSD MSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 101 70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35130

Analysis Batch: 35122 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 08:45	09/22/22 19:31	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		09/22/22 08:45	09/22/22 19:31	1
C10-C28)									
OII 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
1-Chlorooctane	110		70 - 130	09/22/22 08:45	09/22/22 19:31	1
o-Terphenyl	124		70 - 130	09/22/22 08:45	09/22/22 19:31	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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 1000 Diesel Range Organics (Over 844.8 mg/Kg 84 70 - 130

C10-C28)

Matrix: Solid

Analysis Batch: 35122

LCS LCS

Surrogate	%Recovery Quali	fier Limits
1-Chlorooctane	95	70 - 130
o-Terphenyl	96	70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 35130

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Gasoline Range Organics 1000 883.3 88 20 mg/Kg 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 908.3 mg/Kg 91 70 - 130 20

C10-C28)

Matrix: Solid

Analysis Batch: 35122

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	103		70 - 130

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

Prep Batch: 35130

Sample Sample Spike MS MS Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits Gasoline Range Organics <49.9 U 996 923.1 mg/Kg 91 70 - 130 (GRO)-C6-C10 996 1069 Diesel Range Organics (Over <49.9 U 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 Client Sample ID: H-1 (0-2')

Matrix: Solid

Analysis Batch: 35122

Prep Type: Total/NA

Prep Batch: 35130

	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	999	927.6		mg/Kg		91	70 - 130	0	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U	999	1052		mg/Kg		105	70 - 130	2	20
C10-C28)											

MSD MSD

Surrogate	%Recovery Qua	lifier Lim	its
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

Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<50.0	U	50.0		mg/Kg		09/22/22 11:26	09/23/22 20:35	1
<50.0	U	50.0		mg/Kg		09/22/22 11:26	09/23/22 20:35	1
<50.0	U	50.0		mg/Kg		09/22/22 11:26	09/23/22 20:35	1
	<50.0 <50.0	Result Qualifier U	<50.0 U 50.0 <50.0	<50.0 U 50.0 <50.0	<50.0 U 50.0 mg/Kg <50.0 U 50.0 mg/Kg	<50.0 U 50.0 mg/Kg <50.0 U 50.0 mg/Kg	<50.0 U 50.0 mg/Kg 09/22/22 11:26 <50.0 U 50.0 mg/Kg 09/22/22 11:26	<50.0

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)

LCS LCS

%Recovery Qualifier

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

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

Limits

Matrix: Solid

Surrogate

Analysis Batch: 35220

Prep Type: Total/NA

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 106 70 - 130 1-Chlorooctane 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 Analyte Added Result Qualifier Result Qualifier Unit D %Rec Limits 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

Analysis Batch: 35220

Prep Type: Total/NA

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

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	99		70 - 130

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)

MD MD

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Lab Sample ID: MB 880-35262/1-A

Analysis Batch: 35322

Matrix: Solid

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
	МВ	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
	Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Analyte Result Gasoline Range Organics <50.0	Casoline Range Organics C50.0 U	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

Lab Sample ID: LCS 880-35262/2-A

Matrix: Solid

o-Terphenyl

Analysis Batch: 35322

Client Sample ID: Lab Control Sample

09/24/22 10:38

09/23/22 11:03

Prep Type: Total/NA

Prep Batch: 35262

LCS LCS Spike %Rec Added Result Qualifier Analyte Unit D %Rec Limits 887.2 Gasoline Range Organics 1000 mg/Kg 89 70 - 130 (GRO)-C6-C10 1000 1002 Diesel Range Organics (Over mg/Kg 100 70 - 130 C10-C28)

70 - 130

LCS LCS

Surrogate	%Recovery Qu	alifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: LCSD 880-35262/3-A

Matrix: Solid

Analysis Batch: 35322

Client S	Sample	ID: Lab	Control	Sample	Dup

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

Matrix: Solid

Analysis Batch: 35322

Client Sam	ple ID: BH-202	(4.5')
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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)										

Client Sample ID: BH-202 (4.5')

Prep Type: Total/NA

Prep Batch: 35262

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

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Matrix: Solid Analysis Batch: 35322

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 110 70 - 130

Lab Sample ID: 890-3011-19 MSD

Matrix: Solid

Analysis Batch: 35322

o-Terphenyl

Client Sample ID: BH-202 (4.5') Prep Type: Total/NA Prep Batch: 35262

70 - 130

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

Matrix: Solid

Analysis Batch: 35313

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Analyte Result Qualifier

Chloride 5.00 <5.00 U

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 Result Qualifier Added Analyte Unit D %Rec Limits RPD Limit Chloride 250 247.9 mg/Kg 99 90 - 110 20

RL

MDL Unit

mg/Kg

D

Prepared

Lab Sample ID: 890-3011-17 MS

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Matrix: Solid

Analysis Batch: 35313

Analysis Dateil. 00010										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	3220		1260	4518		mg/Kg		104	90 - 110	

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Dil Fac

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Method Blank

Analyzed

09/23/22 19:42

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup **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') **Prep Type: Soluble**

Matrix: Solid

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**

LCS LCS

Matrix: Solid

Analysis Batch: 35314

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 Batc
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 Batch
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	
390-3011-26	SW-72 (0-8')	Total/NA	Solid	5035	
890-3011-27	SW-73 (6-13')	Total/NA	Solid	5035	
390-3011-28	SW-74 (8-13')	Total/NA	Solid	5035	
390-3011-29	SW-75 (0-4.5')	Total/NA	Solid	5035	
390-3011-30	SW-76 (0-4.5')	Total/NA	Solid	5035	
390-3011-31	SW-77 (0-4.5')	Total/NA	Solid	5035	
MB 880-35625/5-A	Method Blank	Total/NA	Solid	5035	
_CS 880-35625/1-A	Lab Control Sample	Total/NA	Solid	5035	
_CSD 880-35625/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-19417-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
380-19417-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.

Job ID: 890-3011-1

Project/Site: Kaiser SWD

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

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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. Job ID: 890-3011-1 Project/Site: Kaiser SWD 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

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

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-3011-1

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	
390-3011-9	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	
390-3011-13	BH-196 (4.5')	Soluble	Solid	DI Leach	
390-3011-14	BH-197 (4.5')	Soluble	Solid	DI Leach	
390-3011-15	BH-198 (4.5')	Soluble	Solid	DI Leach	
390-3011-16	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	
390-3011-7 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 Batc
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	
390-3011-26	SW-72 (0-8')	Soluble	Solid	DI Leach	
390-3011-27	SW-73 (6-13')	Soluble	Solid	DI Leach	
390-3011-28	SW-74 (8-13')	Soluble	Solid	DI Leach	
390-3011-29	SW-75 (0-4.5')	Soluble	Solid	DI Leach	
390-3011-30	SW-76 (0-4.5')	Soluble	Solid	DI Leach	
390-3011-31	SW-77 (0-4.5')	Soluble	Solid	DI Leach	
MB 880-35024/1-A	Method Blank	Soluble	Solid	DI Leach	
_CS 880-35024/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-35024/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
390-3011-17 MS	BH-200 (4.5')	Soluble	Solid	DI Leach	
890-3011-17 MSD	BH-200 (4.5')	Soluble	Solid	DI Leach	
390-3011-27 MS	SW-73 (6-13')	Soluble	Solid	DI Leach	
890-3011-27 MSD	SW-73 (6-13')	Soluble	Solid	DI Leach	

Analysis Batch: 35313

Released to Imaging: 9/1/2023 3:25:35 PM

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

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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

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 Lab Sample ID: 890-3011-1

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			5.03 g	5 mL	35621	09/28/22 14:59	EL	EET MIC
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 MIC
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35122	09/22/22 20:34	SM	EET MIC
Soluble	Leach	DI Leach			5.01 g	50 mL	35023	09/21/22 10:05	SMC	EET MIC
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	Type	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	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 07:42	AJ	EET MIC
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 MIC
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 MIC
Soluble	Leach	DI Leach			5 g	50 mL	35023	09/21/22 10:05	SMC	EET MIC
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 **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		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

Job ID: 890-3011-1

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: H-4 (0-2') Lab Sample ID: 890-3011-4 Date Collected: 09/19/22 00:00

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 8015 NM 35274 Analysis 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 uL 1 uL 35122 09/22/22 22:22 SM EET MID Soluble 50 mL 35023 09/21/22 10:05 SMC **EET MID** Leach DI Leach 5 g 300.0 35314 09/23/22 23:37 Soluble Analysis 1 СН **EET MID**

Client Sample ID: H-5 (0-2') Lab Sample ID: 890-3011-5

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22

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			5.00 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 MID
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	Type	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	Туре	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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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 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

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			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	Туре	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 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			4.98 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

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 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	CH	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 MIC
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	Type	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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Released to Imaging: 9/1/2023 3:25:35 PM

Client Sample ID: BH-197 (4.5')

Date Collected: 09/19/22 00:00 Date Received: 09/20/22 10:22 Lab Sample ID: 890-3011-14

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			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

Client Sample ID: BH-198 (4.5')

Lab Sample ID: 890-3011-15

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			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 MID
Soluble	Analysis	300.0		5			35314	09/24/22 00:51	CH	EET MID

Client Sample ID: BH-199 (4.5')

Date Collected: 09/19/22 00:00

Lab Sample ID: 890-3011-16

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	Type	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 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			4.98 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 Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g 1 uL	10 mL 1 uL	35130 35122	09/22/22 08:45 09/23/22 03:23	DM SM	EET MID EET MID

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Matrix: Solid

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0/2/2022

Client Sample ID: BH-200 (4.5')

Date Received: 09/20/22 10:22

Lab Sample ID: 890-3011-17 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 Soluble DI Leach 35024 SMC Leach 4.98 g 50 mL 09/22/22 11:54 **EET MID** 300.0 Soluble Analysis 5 35313 09/23/22 19:57 СН **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	Type	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	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 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

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

Lab Sample ID: 890-3011-22

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			5.01 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

	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	35724	09/29/22 16:18	MNR	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	35890	10/03/22 19:15	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 04:09	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	35024	09/22/22 11:54	SMC	EET MID

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35313

09/23/22 20:41

Client Sample ID: BH-206 (4.5')

Analysis

300.0

Date Collected: 09/19/22 00:00

Soluble

Date Received: 09/20/22 10:22

Lab Sample ID:	890-3011-23
	Matrix: Solid

Lab Sample ID: 890-3011-24

СН

EET MID

	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	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

_	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

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Matrix: Solid

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	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	10/01/22 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')

Date Collected: 09/19/22 00:00

Lab Sample ID: 890-3011-26

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			5.02 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

Client Sample ID: SW-73 (6-13')

Lab Sample ID: 890-3011-27

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			4.99 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

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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	Туре	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 **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 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')

Date Collected: 09/19/22 00:00

Date Received: 09/20/22 10:22

Lab Samp	le ID:	890-30	11-29
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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	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

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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 Sampl	e ID: SW-76	(0-4.5')					Lab Samp	ole ID: 8	390-3011-30
Date Collected:	09/19/22 00:00)							Matrix: Solid
Date Received:	09/20/22 10:22	2							

	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	NI	ELAP	T104704400-22-24	06-30-23
The following analytes	ara inalizadad in thia ranart hi	it the leberatory is not contiffe	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
,	. ,	Matrix	Analyte	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: 890-3011-1

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

Solid

09/19/22 00:00

09/20/22 10:22 0 - 4.5

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	Relinquished by:		Relinguished by:	Tak	Relipquished t											(LABUSE ONLY	LAB#		Comments:	Receiving Laboratory:	invoice to:	(county, state)	Project Name:	Client Name:	7	
	by: Date: Time:			12/12/2	by: Date: Time:	BH-193 (8')	BH-192 (8')	BH-191 (8')	H-7 (0-2')	H-6 (0-2')	H-5 (0-2')	H-4 (0-2')	H-3 (0-2')	H-2 (0-2')	H-1 (0-2')		SAMPLE IDENTIFICATION			eratory: Eurofins Xenco	Permian Water Solutions - Dusty McInturff	Lea County, NM	Kaiser SWD	Permian Water Solutions	Tena Tech, Inc.	Total Toch
	Received by:		Received by:	Class That	Reg	9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/19/2022	DATE	YEAR: 2020	SAMPLING		Sampler Signature:		Project #:		Site Manager	THC.	Inc
	Date: Time:		Date: Time:	4.20.22 1022	Date: Time:	X	×	×	×	×	×	×	×	×	×	WATE SOIL HCL HNO ₃ ICE None		MATRIX PRESERVATIVE		Peyton Oliver		212C-MD-02230	Clair.Gonzales@tetratech.com	Clair Gonzales	Tel (432) 862-4559 Fay (432) 862-3846	Midland, Texas 79705
	Ç	, ė		CAB OSE ONLY		×	×	×	×	×	×	×	×	×	×	# CONT FILTER BTEX 8 TPH TX TPH 80 PAH 82 Total Mc	ED (1005 115M (270C etals /	BTE (Ext to GRO	DRO -	ORO - Pb Se	Hg		890-3011	ANALY:		
[Special Report Limits or TRRP Report	Rush Charges Authorized	RUSH: Same Day 24 hr 48 hr	X SIANUARD	REMARKS	×	×	×	×	×	×	×	×	×	×	TCLP V TCLP S RCI GC/MS GC/MS PCB's 8 NORM PLM (A: Chloride	Vol. 8 Semi. 8082 /	s colatiles 3260B / Vol. 8 608 cos) Sulfate er Che	1 624 270C/62 TDS emistry (25		list)	3011 Chain of Custody			
	on.		72 hr													Hold										

Page 67 of 72

Tetra Tetra Tech, Inc. Total Tech The Tetra Tech The Th
Site Manager Clair Gonzales Clair
CONTAINERS # CONTAINERS FILTERED (Y/N)
CONTAINERS FILTERED (Y/N)
TCLP Volatiles TCLP Semi Volatiles
Chloride Sulfate TDS General Water Chemistry (see attached list)

	Relinquished by:		Relinquished by:	The	Relinquished by:	SW:	.WS	SW.	SW.	SW.	.WS	вн.	Вн∹	BH.	ВН	(LABUSE)	LAB #		Comments:	Receiving Laboratory:		invoice to:	Project Location: (county, state)	Project Name:		Oliont Name	4		Analysis Reque
	Date: Time:		Date: Time:	L gleder	Date: Time:	SW-76 (0-4.5)	SW-75 (0-4.5')	SW-74 (8-13')	SW-73 (6-13')	SW-72 (0-8')	SW-62 (8-13')	BH-207 (4.5')	BH-206 (4.5')	BH-205 (4.5')	BH-204 (4.5')		SAMPLE IDENTIFICATION			Eurofins Xenco	Permian Water Solutions - Dusty McInturff		Lea County, NM	Kaiser SWD	Permian Water Solutions		ICHA ICH IIC	Totro Toch Inc	Analysis Request of Chain of Custody Record
	Received by:		Received by:	Melit	Received by:	9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/19/2022	9/19/2022	DATE	YEAR: 2020	SAMPLING					Project #:	<u>Clair.</u> (Site Manager			
	Date: Time:		Date: Time:	7-30:32	Date: Time:	×	×	×	×	×	×	×	×	×	×	WATE SOIL HCL HNO ₃ ICE None	R	MATRIX PRESERVATIVE		Peyton Oliver			212C-MD-02230	Clair.Gonzales@tetratech.com	Clair Gonzales	Fax (432) 682-3946	Tel (432) 682-4559	Midland, Texas 79705	
(Circle) HAND DELIVERED FEDEX UPS Tracking #	Special Report Limits or TRRP Report	Rush Charges Authorized	Sample Temperature		ON A	×	×	×	×	×	×	×		×	×	PAH 8 Total M TCLP N TCLP S RCI GC/MS GC/MS PCB'S NORM PLM (A	RED (*) 8021B X1005 X100	BTI G (Ext to GRO) Ag As Ag As es volatile: 82608 Vol. 668	EX 8260 0 C35) - DRO - I Ba Cd Cr Ba Cd C	ORO - Pb Se r Pb S	Hg				(Circle or Specify Method				1 age
	r TRRP Report	8.	24 Nr 48 Nr 72 Nr	5												Chloric	de S al Wat		emistry	see a	ttache	d lis	st)		od No.)				

	Relinquished by:	Keling System by.	100//	Relinguished by:								LABUSE)	- D t		Comments:	Receiving Laboratory:	nvoice to:	Project Location: (county, state)	Project Name:	Client Name:		႕	
	Date: Time:	Date:	11011	10							SW-77 (0-4.5')		SAMPLE IDENTIFICATION			tery: Eurofins Xenco	Permian Water Solutions - Dusty McInturff	Lea County, NM	Kaiser SWD	Permian Water Solutions		Tetra Tech, Inc.	
	Received by:	Neversed by.		Received by:							9/19/2022	DATE	YEAR: 2020	SAMPLING		Sampler Signature:		Project #:		Site Manager:			
	Date:		(A)	Date							×	WATER SOIL HCL		MATRIX		Peyton Oliver		212C-MD-02230	Clair.Gonzales@tetratech.com	Clair Gonzales	Fax (432) 682-3946	Widland, Texas 79705 Tel (432) 882-4559	SOLAM AMBILITY SIE
	e: Time:			ate: Time:							×	HNO ₃ ICE None # CONTA	AINE	PRESERVATIVE OF METHOD		liver		-02230	ch.com	es	682-3946	79705 4569	Jet, Ste 100
												FILTERE	D (Y	(/N)									
(Circle)	4	Sample		LAB USE								BTEX 80	1005	(Ext to	C35)					ANA			
HAND		Temperature		JSE (\dashv					×	TPH 801 PAH 827		GRO -	DRO -	ORO - I	MRO)			ANALYSIS			
DELIVERED		ature		ONLY								Total Met	_	-									
		7 /	7									TCLP Vo	latile	s						REQUES			
FEDEX	LS I	ᇎ	R	REMARKS:								RCI	mi ve	olaules						or S			1
UPS	SC:	Rush Charges Authorized	RUSH: Same Day	STANDARD								GC/MS V				5			-	beci			
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Tracking	Limits	Autho		RD	\vdash	H	+	-	-	\vdash		NORM PLM (Asi	besto	os)						Met			
#	Special Report Limits or TRRP Report	nized	24 hr		口						×	Chloride			TDC					Method			
	RR F		r 48 hr		H	-			-		-	Chloride General		ulfate er Che		see at	tached	list)		No			
	Зероп					П		1	1			Anion/C											
			72 hr		H				+		-												
										1													

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Login Sample Receipt Checklist

Client: Tetra Tech, Inc. Job Number: 890-3011-1 SDG Number: Lea County NM

List Source: Eurofins Carlsbad

Login Number: 3011 List Number: 1 Creator: Clifton, Cloe

Question Answer Comment

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 3:25:35 PM

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

List Number: 2 Creator: Rodriguez, Leticia

Login Number: 3011

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	





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:

💸 eurofins

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.



Received by OCD: 8/29/2023 3:51:49 PM

.....LINKS

Review your project results through EOL

Have a Question?



Visit us at:

www.eurofinsus.com/Env Released to Imaging: 9/1/2023 3:25:35 PM

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-3411-1 SDG: Lea County NM

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Definitions/Glossary

Job ID: 890-3411-1 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. F1 MS and/or MSD recovery 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 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) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA Minimum Detectable Concentration (Radiochemistry) MDC

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** QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

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) 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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11

Lab Sample ID: 890-3411-1

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 -	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	_	0.00401		mg/Kg			11/14/22 16:13	·
-									
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)						
Method: SW846 8015 NM - Diese Analyte		ics (DRO) (Qualifier	GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		, , ,	•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/14/22 14:30	Dil Fac
Analyte	Result 74.9	Qualifier		MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result 74.9	Qualifier		MDL	mg/Kg	<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Die	Result 74.9	Qualifier nics (DRO) Qualifier	RL 50.0		mg/Kg	-		11/14/22 14:30	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	Result 74.9 sel Range Orga Result	Qualifier nics (DRO) Qualifier	7 RL 50.0 (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 Diesel Range Organics (Over	Result 74.9 Sel Range Orga Result < 50.0	Qualifier unics (DRO) Qualifier U	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 - Die 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 unics (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 11/09/22 15:38	Analyzed 11/11/22 13:54 11/11/22 13:54	1 Dil Fac 1 1
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 74.9	Qualifier unics (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	Dil Fac 1 1 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) Surrogate	Result 74.9	Qualifier unics (DRO) Qualifier U	RL		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 1 1 1 Dil Fac 2 1
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) Surrogate 1-Chlorooctane	Result 74.9	Qualifier U Qualifier 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 11/09/22 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
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) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U Qualifier 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 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 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	

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Matrix: Solid

Lab Sample ID: 890-3411-2

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)	

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 RTFY - Total	RTFY Calculation
MELITOU. TAL JOI	Total DIEA - Total	DIEA Calculation

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

Mathed CMO4C CO4E NM Discal Dance Occasion (DI	201	1001	
Method: SW846 8015 NM - Diesel Range Organics (DI	くしょいし	((36.)	

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	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102	70 - 130	11/09/22 15:38	11/11/22 14:16	1
o-Terphenyl	109	70 - 130	11/09/22 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

Method: SW846 8021B -	M-1-4!1- O	0 (00)

Method. Syvoto 002 ID - Volat	ne Organic Comp		,						
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-Diffuorobenzene (Surr)	116		70 130				11/09/22 15:36	11/12/22 22:56	1

Method: 1	ΓΔΙ SC	P Total R	TFY - T	otal RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Pre	pared	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
---	---------	----------------	--------------	----------	----------	------	-----

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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4.0

15

Lab Sample ID: 890-3411-3

11/12/22 01:47

Client: Tetra Tech, Inc. Job ID: 890-3411-1 Project/Site: Kaiser SWD 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

Analyte	Result	Qualifier	RL	MDL (Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	r	mg/Kg		11/09/22 15:38	11/11/22 14:37	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0	r	mg/Kg		11/09/22 15:38	11/11/22 14:37	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	r	mg/Kg		11/09/22 15:38	11/11/22 14:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane			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

Client Sample ID: BH-205 (10') Lab Sample ID: 890-3411-4 Matrix: Solid

25.0

mg/Kg

2010

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Sample Depth: 10

Chloride

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 - 1	Total BTEX Cald	culation							
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 - Diese	el Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDI	Unit	D			
			112	MDL	0	U	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	WIDE	mg/Kg		Prepared	Analyzed 11/14/22 14:30	Dil Fac
- -			50.0	MIDL			Prepared		
Thethod: SW846 8015B NM - Dies	sel Range Orga		50.0			<u>b</u>	Prepared		
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	sel Range Orga	nics (DRO) Qualifier	50.0 (GC)		mg/Kg			11/14/22 14:30	1
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	sel Range Orga Result <50.0	nics (DRO) Qualifier	50.0 (GC) RL 50.0		mg/Kg Unit mg/Kg		Prepared 11/09/22 15:38	11/14/22 14:30 Analyzed 11/11/22 14:59	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result	nics (DRO) Qualifier	50.0 (GC)		mg/Kg		Prepared	11/14/22 14:30 Analyzed	1 Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <50.0	nics (DRO) Qualifier U	50.0 (GC) RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/09/22 15:38	11/14/22 14:30 Analyzed 11/11/22 14:59 11/11/22 14:59	1 Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <50.0	nics (DRO) Qualifier U	50.0 (GC) RL 50.0		mg/Kg Unit mg/Kg		Prepared 11/09/22 15:38	11/14/22 14:30 Analyzed 11/11/22 14:59	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <50.0	nics (DRO) Qualifier U	50.0 (GC) RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 11/09/22 15:38	11/14/22 14:30 Analyzed 11/11/22 14:59 11/11/22 14:59	1 Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result <50.0 <50.0 <50.0	nics (DRO) Qualifier U	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 14:59 11/11/22 14:59 11/11/22 14:59	1 Dil Fac 1 1

Matrix: Solid

Client: Tetra Tech, Inc.

Job ID: 890-3411-1

mg/Kg

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 Date Received: 11/07/22 14:58

Sample Depth: 10

Method: MCAWW 300.0 - Anions, Id	on Chromato	graphy - Sol	luble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1480		25.1		mg/Kg			11/12/22 01:54	5

Client Sample ID: BH-206 (10') Lab Sample ID: 890-3411-5

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	<0.00201	U	0.00201		mg/Kg		11/09/22 15:36	11/12/22 23:37	
Toluene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:36	11/12/22 23:37	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:36	11/12/22 23:37	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		11/09/22 15:36	11/12/22 23:37	
o-Xylene	<0.00201	U	0.00201		mg/Kg		11/09/22 15:36	11/12/22 23:37	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		11/09/22 15:36	11/12/22 23:37	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	102		70 - 130				11/09/22 15:36	11/12/22 23:37	
1,4-Difluorobenzene (Surr)	116		70 - 130				11/09/22 15:36	11/12/22 23:37	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/14/22 16:13	
	el Range Organ	ics (DRO) (GC)						
Method: SW846 8015 NM - Diese Analyte Total TPH		Qualifier	GC) RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/14/22 14:30	
Method: SW846 8015 NM - Diese Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9	MDL	Unit	<u>D</u>	Prepared		Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.9 sel Range Orga	Qualifier U	RL 49.9 (GC)		Unit mg/Kg			11/14/22 14:30	
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte	Result <49.9 sel Range Orga Result	Qualifier Unics (DRO) Qualifier	(GC)		Unit mg/Kg Unit	<u>D</u>	Prepared	11/14/22 14:30 Analyzed	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	Result <49.9 sel Range Orga	Qualifier Unics (DRO) Qualifier	RL 49.9 (GC)		Unit mg/Kg			11/14/22 14:30	
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	(GC)		Unit mg/Kg Unit		Prepared	11/14/22 14:30 Analyzed	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U	(GC) RL 49.9		Unit mg/Kg Unit mg/Kg		Prepared 11/09/22 15:38	11/14/22 14:30 Analyzed 11/11/22 15:21	Dil Fa
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)	Result <49.9 sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U	(GC) RL 49.9		Unit mg/Kg Unit mg/Kg		Prepared 11/09/22 15:38	11/14/22 14:30 Analyzed 11/11/22 15:21	Dil Fa
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)	Result <49.9	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 11/09/22 15:38	11/14/22 14:30 Analyzed 11/11/22 15:21 11/11/22 15:21	Dil Fa
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)	Result <49.9 sel Range Orga Result <49.9 <49.9 <49.9	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9 49.9		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 11/09/22 15:38 11/09/22 15:38	Analyzed 11/11/22 15:21 11/11/22 15:21 11/11/22 15:21	Dil Fa
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) Surrogate	Result <49.9	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits		Unit 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 15:21 11/11/22 15:21 11/11/22 15:21 Analyzed	Dil Fa
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) 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		Unit 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 15:21 11/11/22 15:21 11/11/22 15:21 Analyzed 11/11/22 15:21	Dil Fa

Eurofins Carlsbad

11/12/22 02:01

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Chloride

Lab Sample ID: 890-3411-6

Client Sample Results

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 - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte	•	ics (DRO) ((Qualifier	GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9		49.9		mg/Kg	=	Troparca		Diriac
					9/.19			11/14/22 14:30	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)		9/.19			11/14/22 14:30	1
	• •	nics (DRO) Qualifier	(GC)	MDL		D	Prepared	11/14/22 14:30 Analyzed	1 Dil Fac
Analyte Gasoline Range Organics	• •	Qualifier		MDL		<u>D</u>	Prepared 11/09/22 15:38		
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U	RL	MDL	Unit	<u>D</u>		Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9	Qualifier U	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	11/09/22 15:38	Analyzed 11/11/22 15:43	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	Qualifier U U U	RL 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/09/22 15:38	Analyzed 11/11/22 15:43 11/11/22 15:43	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 <49.9 <49.9	Qualifier U U U	RL 49.9 49.9 49.9	MDL	Unit mg/Kg mg/Kg	<u> </u>	11/09/22 15:38 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 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	Result <49.9 <49.9 <49.9 <49.9 %Recovery	Qualifier U U U	### RL 49.9 49.9 49.9 **Limits	MDL	Unit mg/Kg mg/Kg	<u>D</u>	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 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	RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	MDL	Unit 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	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 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 49.9 49.9 49.9 Limits 70 - 130 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	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

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

Eurofins Carlsbad

Lab Sample ID: 890-3411-7

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Matrix: Solid

Lab Sample ID: 890-3411-7

Client Sample Results

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

Sample Depth: 10

Method: SW846 8021B	- Volatile Organic	Compounds	(GC)	(Continued)	

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	115	70 - 130	11/09/22 15:36	11/13/22 00:19	1

Method: TAL SOP 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			11/14/22 16:13	1

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

Method: SW846 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		11/09/22 15:38	11/11/22 16:26	1
(GRO)-C6-C10	~E0.0		50.0		no a /1/ a		11/09/22 15:38	11/11/22 16:26	4
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/09/22 15:38	11/11/22 10:20	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/09/22 15:38	11/11/22 16:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117	70 - 130	11/09/22 15:38	11/11/22 16:26	1
o-Terphenyl	124	70 - 130	11/09/22 15:38	11/11/22 16:26	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4470		49.6		mg/Kg			11/12/22 02:30	10

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

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 00:40	1
Toluene	0.0775		0.00200		mg/Kg		11/09/22 15:36	11/13/22 00:40	1
Ethylbenzene	0.0695		0.00200		mg/Kg		11/09/22 15:36	11/13/22 00:40	1
m-Xylene & p-Xylene	0.135		0.00399		mg/Kg		11/09/22 15:36	11/13/22 00:40	1
o-Xylene	0.0758		0.00200		mg/Kg		11/09/22 15:36	11/13/22 00:40	1
Xylenes, Total	0.211		0.00399		mg/Kg		11/09/22 15:36	11/13/22 00:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130				11/09/22 15:36	11/13/22 00:40	1

4-Bromofluorobenzene (Surr)	134 S1+	70 - 130	11/09/22 15:36	11/13/22 00:40	1
1,4-Difluorobenzene (Surr)	99	70 - 130	11/09/22 15:36	11/13/22 00:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.358		0.00399		mg/Kg		_	11/14/22 16:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2430		50.0	mg/Kg			11/14/22 14:30	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-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

5

Method: SW846 8015B NM - Di	esel Range Orgar	nics (DRO)	(GC)						
Analyte	Result	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 - SolubleAnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FacChloride227025.0mg/Kg11/12/22 02:375

Client Sample ID: BH-211 (10')

Lab Sample ID: 890-3411-9

Date Collected: 11/07/22 00:00
Date Received: 11/07/22 14:58

Sample Depth: 10

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	
Toluene	< 0.00199	U	0.00199		mg/Kg		11/09/22 15:36	11/13/22 01:00	,
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	
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: 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)						
Method: SW846 8015 NM - Diese Analyte		ics (DRO) (Qualifier	GC) RL	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 <50.0	Qualifier U	RL 50.0	MDL		<u>D</u>	Prepared		
Analyte	Result <50.0 sel Range Orga	Qualifier U	RL 50.0	MDL MDL	mg/Kg	<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <50.0 sel Range Orga	Qualifier Unics (DRO) Qualifier	RL 50.0		mg/Kg		<u> </u>	11/14/22 14:30	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	Result <50.0 sel Range Orga Result	Qualifier Unics (DRO) Qualifier	70.0 (GC)		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	Result <50.0 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	70.0 (GC)		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	Qualifier U 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 11/09/22 15:38	Analyzed 11/11/22 17:09 11/11/22 17:09	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 Result <50.0	Qualifier U nics (DRO) Qualifier U	RL 50.0		mg/Kg Unit mg/Kg		Prepared 11/09/22 15:38	11/14/22 14:30 Analyzed 11/11/22 17:09	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 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 17:09 11/11/22 17:09 11/11/22 17:09 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	Qualifier U nics (DRO) Qualifier U 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 17:09 11/11/22 17:09 11/11/22 17:09	Dil Fac

Lab Sample ID: 890-3411-9

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-3411-1

Project/Site: Kaiser SWD

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

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble										
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')

Date Collected: 11/07/22 00:00

Lab Sample ID: 890-3411-10

Matrix: Solid

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 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)			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
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0395		0.00398		mg/Kg			11/14/22 16:13	

Method: SW846 8015 NM - Diesel I	Range Organ	ics (DRO) (G	C)						
Analyte		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 - Diese	l 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		11/09/22 15:38	11/11/22 17:32	1

o-Terphenyl	102		70 - 130		11/09/22 15:38	11/11/22 17:32	1
1-Chlorooctane	99		70 - 130		11/09/22 15:38	11/11/22 17:32	1
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
(GRO)-C6-C10	<50.0	U	50.0	mg/kg	11/09/22 15.36	11/11/22 17.32	ı

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2970		25.2		mg/Kg			11/12/22 02:51	5

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Sample Depth: 4 - 10

Job ID: 890-3411-1 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

REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-3411-11

Matrix: Solid

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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	el Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit ma/Ka	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte Total TPH	Result <50.0	Qualifier U	RL 50.0	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/14/22 14:30	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 - Dies	Result <50.0 sel Range Orga	Qualifier U	RL 50.0			<u>D</u>	Prepared Prepared		Dil Fac Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <50.0 sel Range Orga	Qualifier U nics (DRO) Qualifier	RL 50.0		mg/Kg			11/14/22 14:30	1
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)	Result <50.0 sel Range Orga	Qualifier U nics (DRO) Qualifier U	RL 50.0		mg/Kg		Prepared	11/14/22 14:30 Analyzed	1
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 nics (DRO) Qualifier U	RL 50.0		mg/Kg Unit mg/Kg		Prepared 11/09/22 15:38	11/14/22 14:30 Analyzed 11/11/22 17:54	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 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 11/09/22 15:38	11/14/22 14:30 Analyzed 11/11/22 17:54 11/11/22 17:54	1 Dil Fac 1
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 <50.0	Qualifier U nics (DRO) Qualifier U 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 17:54 11/11/22 17:54	1 Dil Fac 1 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result	Qualifier U nics (DRO) Qualifier U U	RL		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 17:54 11/11/22 17:54 Analyzed Analyzed	Dil Fac 1 1 Dil Fac 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	Qualifier U nics (DRO) Qualifier U 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 11/09/22 15:38 11/09/22 15:38 11/09/22 15:38 Prepared 11/09/22 15:38	Analyzed 11/11/22 17:54 11/11/22 17:54 11/11/22 17:54 Analyzed 11/11/22 17:54	1 Dil Fac 1 Dil Fac 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 o-Terphenyl	Result	Qualifier U nics (DRO) Qualifier U 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 11/09/22 15:38 11/09/22 15:38 11/09/22 15:38 Prepared 11/09/22 15:38	Analyzed 11/11/22 17:54 11/11/22 17:54 11/11/22 17:54 Analyzed 11/11/22 17:54	1 Dil Fac 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

REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-3411-12

Matrix: Solid

Method: SW846 8021B - Volatile	Organic Compounds (GC
Analyte	Result Qualifier

Analyte	Result	Qualifier	KL	MDL	Unit	D	Prepared	Analyzeu	DII 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
	Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate	Benzene <0.00201 Toluene <0.00201 Ethylbenzene <0.00201 m-Xylene & p-Xylene <0.00402 o-Xylene <0.00201 Xylenes, Total <0.00402 Surrogate %Recovery	Benzene	Benzene <0.00201 U 0.00201 Toluene <0.00201 U 0.00201 Ethylbenzene <0.00201 U 0.00201 m-Xylene & p-Xylene <0.00402 U 0.00402 o-Xylene <0.00201 U 0.00201 Xylenes, Total <0.00402 U 0.00402 Surrogate %Recovery Qualifier Limits	Benzene <0.00201 U 0.00201 Toluene <0.00201 U 0.00201 Ethylbenzene <0.00201 U 0.00201 m-Xylene & p-Xylene <0.00402 U 0.00402 o-Xylene <0.00201 U 0.00201 Xylenes, Total <0.00402 U 0.00402 Surrogate %Recovery Qualifier Limits	Benzene <0.00201	Benzene <0.00201	Benzene <0.00201	Benzene <0.00201

Client Sample Results

Client: Tetra Tech, Inc.

Job ID: 890-3411-1

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

Analyte

Total BTEX

Total TPH

Analyte

REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-3411-12

Matrix: Solid

olid

Dil Fac

Dil Fac

Dil Fac

4

5

40

12

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Method: SW846 8021B - Vola	tile Organic Compounds (G	(Continued)
Surrogate	%Recovery Qualifier	Limits
1,4-Difluorobenzene (Surr)	120	70 - 130

Method: TAL SOP Total BTEX - Total BTEX Calculation

 REX Calculation

 Result
 Qualifier
 RL

 <0.00402</td>
 U
 0.00402

Result Qualifier

<49.9

MDL Unit D

mg/Kg

MDL Unit

MDL Unit

mg/Kg

11/14/22 16:13

Prepared

D

Prepared

Prepared

11/09/22 15:36

Analyzed 11/14/22 14:30

Analyzed

11/13/22 03:05

Analyzed

10

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac <49.9 U mg/Kg Gasoline Range Organics 49.9 11/09/22 15:38 11/11/22 18:15 (GRO)-C6-C10 <49.9 U 49.9 11/09/22 15:38 11/11/22 18:15 Diesel Range Organics (Over mg/Kg 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

RL

250

RL

49.9

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 111
 70 - 130

 o-Terphenyl
 121
 70 - 130

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

0 11/09/22 15:38 11/11/22 18:15 11/09/22 15:38 11/11/22 18:15

Prepared

D

Chloride
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

Result Qualifier

15800

Lab Sample ID: 890-3411-13

Analyzed

11/12/22 03:20

Matrix: Solid

Dil Fac

50

Method: SW846 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 15:36 11/13/22 03:26 Toluene <0.00199 U 0.00199 11/09/22 15:36 11/13/22 03:26 mg/Kg Ethylbenzene <0.00199 U 0.00199 11/09/22 15:36 11/13/22 03:26 mg/Kg 11/13/22 03:26 m-Xylene & p-Xylene <0.00398 U 0.00398 11/09/22 15:36 mg/Kg o-Xylene <0.00199 U 0.00199 mg/Kg 11/09/22 15:36 11/13/22 03:26 Xylenes, Total <0.00398 U 0.00398 mg/Kg 11/09/22 15:36 11/13/22 03:26 Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analyzed

 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
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Total BTEX
 <0.00398</td>
 U
 0.00398
 mg/Kg
 11/14/22 16:13
 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
 11/14/22 14:30
 1

Client Sample ID: SW-79 (4-10') Date Collected: 11/07/22 00:00

Date Received: 11/07/22 14:58

Date Collected: 11/07/22 00:00

Sample Depth: 4 - 10

REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-3411-13

Matrix: Solid

		Ī
Analyzed	Dil Fac	
1/11/22 18:37	1	
1/11/22 18:37	1	

Matrix: Solid

1
1
1
1
1
1
Dil Fac 1
Dil Fac
Dil Fac
Dil Fac
1
1

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 18:37	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		11/09/22 15:38	11/11/22 18:37	1
C10-C28)									
Oll 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 - So	oluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1120		24.8		mg/Kg			11/12/22 03:27	5

Date Received: 11/07/22 14:58									
Sample Depth: 4.5 - 10									
	ile Organic Comp	ounds (GC)						
Analyte		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	- Total BTEX Cale	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 - Die	esel 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 - D	iesel 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		11/09/22 15:38	11/11/22 18:59	1

(GRO)-C6-C10							
Diesel Range Organics (Over	263		50.0	mg/Kg	11/09/22 15:38	11/11/22 18:59	1
C10-C28)							
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	11/09/22 15:38	11/11/22 18:59	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130		11/09/22 15:38	11/11/22 18:59	1
o-Ternhenyl	98		70 130		11/09/22 15:38	11/11/22 18:59	1

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, I	on Chromatog	graphy - Solub	ole						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8690		101		mg/Kg			11/12/22 03:48	20

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

8120

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	otal 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	I Range Organ	ics (DRO) (GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	192		49.9		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 (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/09/22 15:38	11/11/22 19:21	1
Diesel Range Organics (Over C10-C28)	192		49.9		mg/Kg		11/09/22 15:38	11/11/22 19:21	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/09/22 15:38	11/11/22 19:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				11/09/22 15:38	11/11/22 19:21	1
o-Terphenyl	101		70 - 130				11/09/22 15:38	11/11/22 19:21	1
- Method: MCAWW 300.0 - Anions	. Ion Chromato	ography - So	oluble						

11/12/22 03:55

100

mg/Kg

20

Chloride

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 - 1	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
Method: SW846 8015 NM - Diese	•	, ,,	•	MDI	Unit	n	Propared	Analyzad	Dil Ea
Analyte	Result	ics (DRO) (Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	
	•	, ,,	•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/14/22 14:30	
Analyte	Result 216 sel Range Orga	Qualifier nics (DRO)	RL 49.8	MDL		<u>D</u>	Prepared	11/14/22 14:30	
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	Result 216 sel Range Orga	Qualifier nics (DRO) Qualifier	RL 49.8		mg/Kg	<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies	Result 216 sel Range Orga	Qualifier nics (DRO) Qualifier	RL 49.8 (GC)		mg/Kg	-		11/14/22 14:30	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result 216 sel Range Orga	Qualifier nics (DRO) Qualifier	RL 49.8 (GC)		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	Result 216 sel Range Orga Result Result 49.8	Qualifier nics (DRO) Qualifier U	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
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 216 Sel Range Orga Result <49.8 216	Qualifier nics (DRO) Qualifier U	RL 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	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 216	Qualifier nics (DRO) Qualifier U	RL 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
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 216	Qualifier nics (DRO) Qualifier U	RL 49.8		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
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 1-Chlorooctane	Result 216	Qualifier nics (DRO) Qualifier U Qualifier	RL 49.8 (GC) RL 49.8 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	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 1-Chlorooctane o-Terphenyl	Result 216	Qualifier nics (DRO) Qualifier U Qualifier	RL 49.8 (GC) RL 49.8 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

Client Sample ID: SW-83 (4-10)

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Date Received: 11/0//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	

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Matrix: Solid

Lab Sample ID: 890-3411-17

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	ethod: SW846 8021B - Volatile Organic Compounds (GC) (Continued)						
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 - Tota	BTEX Cald	culation							
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 F	Range Organi	cs (DRO) (G	C)						
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

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 Chromatog	graphy - Soli	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

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
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	
890-3411-3	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	
890-3411-7	BH-209 (10')	111	115	
890-3411-8	BH-210 (10')	134 S1+	99	
890-3411-9	BH-211 (10')	123	115	
890-3411-10	BH-212 (10')	110	101	
890-3411-11	SW-75 (4-10')	104	100	
890-3411-12	SW-78 (4-10')	112	120	
890-3411-13	SW-79 (4-10')	112	114	
890-3411-14	SW-80 (4.5-10')	110	107	
890-3411-15	SW-81 (4.5-10')	114	103	
890-3411-16	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)
		1001	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	ОТРН1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-3411-14	SW-80 (4.5-10')	93	98	
390-3411-15	SW-81 (4.5-10')	95	101	
390-3411-16	SW-82 (4.5-10')	90	95	
390-3411-17	SW-83 (4-10)	88	87	
CS 880-39141/2-A	Lab Control Sample	104	116	
.CS 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+	
/IB 880-39172/1-A	Method Blank	119	134 S1+	

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

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5

7

0

10

46

Job ID: 890-3411-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

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

	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

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 39140

Prep Type: Total/NA

Prep Batch: 39140

35

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 0.100 Ethylbenzene 0.08894 mg/Kg 89 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	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	81		70 - 130		
1,4-Difluorobenzene (Surr)	100		70 - 130		

Client Sample ID: Lab Control Sample Dup

70 - 130

70 - 130

86

96

Lab Sample ID: LCSD 880-39140/2-A **Matrix: Solid**

Analysis Batch: 39369

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

RPD LCSD LCSD Spike %Rec Added Result Qualifier Unit %Rec Limits Limit 0.100 0.09869 mg/Kg 99 70 - 130 35 0.100 0.09592 mg/Kg 96 70 - 130 0 35 0.100 0.09030 mg/Kg 90 70 - 130 2 35

mg/Kg

mg/Kg

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	77		70 - 130
1.4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-3411-1 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	

0.200

0.100

0.1711

0.09589

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1,4-Difluorobenzene (Surr)

QC Sample Results

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**

Prep Type: Total/NA Analysis Batch: 39369 Prep Batch: 39140

	Sample	Sample	эріке	IVIS	IVIS				%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 %Recovery Qualifier Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 77

102

Lab Sample ID: 890-3411-1 MSD Client Sample ID: BH-200 (10')

70 - 130

Matrix: Solid Prep Type: Total/NA Prep Batch: 39140 Analysis Batch: 39369

Sample Sample Spike MSD MSD Result Qualifier %Rec RPD Limit Analyte babbA Result Qualifier 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 0.0998 0.08062 81 70 - 130 2 35 U mg/Kg m-Xylene & p-Xylene <0.00401 U 0.200 0.1625 mg/Kg 81 70 - 130 11 35 0.0998 0.09115 70 - 130 o-Xylene <0.00200 U mg/Kg 91 11

MSD MSD Qualifier Limits Surrogate %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 95 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 Prep Batch: 39141 MB MB

Analyte	Result	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 09:13	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/09/22 15:38	11/11/22 09:13	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/09/22 15:38	11/11/22 09:13	1

MB MB %Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 1-Chlorooctane 121 70 - 130 11/09/22 15:38 11/11/22 09:13 136 S1+ 70 - 130 11/09/22 15:38 11/11/22 09:13 o-Terphenyl

Lab Sample ID: LCS 880-39141/2-A Client Sample ID: Lab Control Sample

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 39275** Prep Batch: 39141

	Spike	LUS	LUG				/onec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	971.0	-	mg/Kg		97	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	884.0		mg/Kg		88	70 - 130
C10-C28)							

Project/Site: Kaiser SWD

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

LCS LCS

Lab Sample ID: LCS 880-39141/2-A

Matrix: Solid

Client: Tetra Tech, Inc.

Analysis Batch: 39275

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 39141

Surrogate %Recovery Qualifier 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 Type: Total/NA

Prep Batch: 39141

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 1108 111 70 - 13013 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 910.3 91 mg/Kg 70 - 1303 20 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 104 116 70 - 130 o-Terphenyl

Lab Sample ID: 880-21336-A-28-D MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 39275

Prep Type: Total/NA

Prep Batch: 39141

MS MS Sample Sample Spike Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics 182 997 969.9 mg/Kg 79 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1820 F1 997 2679 mg/Kg 86 70 - 130 C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 95 70 - 130 o-Terphenyl 92

Lab Sample ID: 880-21336-A-28-E MSD Client Sample ID: Matrix Spike Duplicate

Analysis Batch: 39275

Matrix: Solid

Prep Type: Total/NA

Prep Batch: 39141

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit 182 999 97 Gasoline Range Organics 1151 mg/Kg 70 - 130 17 20 (GRO)-C6-C10 Diesel Range Organics (Over 1820 F1 999 2326 F1 mg/Kg 51 70 - 130 14 20 C10-C28)

MSD MSD

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 84 70 - 130 80 70 - 130 o-Terphenyl

Job ID: 890-3411-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

50.0

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-39172/1-A

Matrix: Solid

Gasoline Range Organics

Analyte

C10-C28)

(GRO)-C6-C10

Analysis Batch: 39269

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 39172

Prep Type: Total/NA

Prep Batch: 39172

Prep Batch: 39172

мв мв Dil Fac Result Qualifier RL MDL Unit D Prepared Analyzed <50.0 U 50.0 mg/Kg 11/10/22 08:48 11/11/22 09:30 Diesel Range Organics (Over 50.0 11/10/22 08:48 11/11/22 09:30 <50.0 U mg/Kg

mg/Kg

mg/Kg

Oll Range Organics (Over C28-C36) <50.0 U

MB MB Surrogate %Recovery Qualifier Limits 1-Chlorooctane 119 70 - 130 o-Terphenyl 134 S1+ 70 - 130

Prepared Analyzed Dil Fac 11/10/22 08:48 11/11/22 09:30 11/10/22 08:48 11/11/22 09:30

Client Sample ID: Lab Control Sample

70 - 130

11/11/22 09:30

11/10/22 08:48

85

Lab Sample ID: LCS 880-39172/2-A

Analysis Batch: 39269

Diesel Range Organics (Over

Matrix: Solid

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits 1000 815.5 82 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10

1000

C10-C28)

LCS LCS %Recovery Qualifier Limits Surrogate 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 Prep Type: Total/NA

846.7

Matrix: Solid

Analysis Batch: 39269

	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 Qualifier Limits %Recovery Surrogate 70 - 130 1-Chlorooctane 107 109 70 - 130 o-Terphenyl

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

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	55.1	*1	997	1007		mg/Kg		95	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	997	861.7		mg/Kg		84	70 - 130	

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)

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	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	79		70 - 130

Lab Sample ID: 890-3402-A-1-H MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

C10-C28)

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	55.1	*1	999	978.6		mg/Kg		92	70 - 130	3	20		
(GRO)-C6-C10													
Diesel Range Organics (Over	<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

Analysis Batch: 39334

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	 250	268.3		ma/Ka		107	90 - 110	

Lab Sample ID: LCSD 880-39128/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 39334

	Spike	e LCSD	LCSD				%Rec		RPD
Analyte	Added	l 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') **Prep Type: Soluble**

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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Released to Imaging: 9/1/2023 3:25:35 PM

Prep Type: Soluble

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	

١		Sample	Sample	Spike	MSD	MSD				%Rec		RPD
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Chloride	2280	F1	1260	3707	F1	mg/Kg		113	90 - 110	5	20

Lab Sample ID: 890-3411-11 MS	3							Client	Sample ID:	•	,
Matrix: Solid									Prep '	Type: So	luble
Analysis Batch: 39334											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	14500	F1	5010	21010	F1	mg/Kg		130	90 - 110		

Lab Sample ID: 890-3411-11 MSD Matrix: Solid Analysis Batch: 39334								Client	Sample ID: Prep	SW-75 (Type: So	,
Analyte	•	Sample Qualifier	Spike Added		MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	14500		5010	20560		mg/Kg		121	90 - 110	2	20

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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	

Job ID: 890-3411-1 Client: Tetra Tech, Inc. 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	

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
390-3411-11	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 Batc
390-3411-1	BH-200 (10')	Total/NA	Solid	8015 NM	
390-3411-2	BH-201 (10')	Total/NA	Solid	8015 NM	
390-3411-3	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	
390-3411-7	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	

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 Batch
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
390-3411-1 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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Project/Site: Kaiser SWD

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

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	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 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	11/12/22 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

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

Matrix: Solid

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Project/Site: Kaiser SWD

Client: Tetra Tech, Inc.

Lab Sample ID: 890-3411-4

Matrix: Solid

Matrix: Solid

Client Sample ID: BH-205 (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	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

Client Sample ID: BH-206 (10') Lab Sample ID: 890-3411-5

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Batch Batch Dil Initial Final Batch Prepared Prep Type Method Amount Amount Number or Analyzed Type Run Factor Analyst Lab Total/NA 5035 Prep 4.98 g 5 mL 39140 11/09/22 15:36 MNR **EET MID** Total/NA Analysis 8021B 5 mL 5 mL 39369 11/12/22 23:37 MNR EET MID 1 Total/NA Total BTEX 39551 **EET MID** Analysis 1 11/14/22 16:13 SM Total/NA Analysis 8015 NM 39406 11/14/22 14:30 SM **EET MID** 1 11/09/22 15:38 Total/NA Prep 8015NM Prep 10.02 g 10 mL 39141 DM **EET MID** Total/NA Analysis 8015B NM 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** EET MID Soluble Analysis 300.0 5 39334 11/12/22 02:01 СН

Client Sample ID: BH-208 (10') Lab Sample ID: 890-3411-6 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	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 MIC
Soluble	Analysis	300.0		10			39334	11/12/22 02:23	CH	EET MID

Client Sample ID: BH-209 (10') Lab Sample ID: 890-3411-7

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 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

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Lab Sample ID: 890-3411-7

Client Sample ID: BH-209 (10') Date Collected: 11/07/22 00:00

Matrix: Solid

Date Received: 11/07/22 14:58

Prepared

Batch Batch Dil Initial Final Batch Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Soluble DI Leach 5.04 g 50 mL 39128 11/09/22 15:08 KS **EET MID** Leach Soluble Analysis 300.0 10 39334 11/12/22 02:30 СН **EET MID**

Lab Sample ID: 890-3411-8

Client Sample ID: BH-210 (10') Date Collected: 11/07/22 00:00

Date Received: 11/07/22 14:58

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 00:40	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 16:48	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 02:37	CH	EET MID

Lab Sample ID: 890-3411-9

Date Collected: 11/07/22 00:00

Client Sample ID: BH-211 (10')

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	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

Lab Sample ID: 890-3411-10 Client Sample ID: BH-212 (10')

Matrix: Solid

Date Collected: 11/07/22 00:00 Date Received: 11/07/22 14:58

Batch Dil Initial Final Batch Batch Prepared Prep Type Method Factor Amount Amount Number or Analyzed Analyst Type Run Lab 5035 Total/NA Prep 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 11/14/22 16:13 Total BTEX Analysis 39551 SM **EET MID** 1 Total/NA Analysis 8015 NM 39406 11/14/22 14:30 SM **EET MID** 39141 Total/NA Prep 8015NM Prep 10.01 g 10 mL 11/09/22 15:38 DM **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 39275 11/11/22 17:32 SM **EET MID** 50 mL Soluble 39128 11/09/22 15:08 KS **EET MID** Leach DI Leach 4.97 g Soluble Analysis 300.0 5 39334 11/12/22 02:51 CH **EET MID**

Client: Tetra Tech, Inc. Job ID: 890-3411-1 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

Lab Sample ID: 890-3411-11

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			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	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 17:54	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	39128	11/09/22 15:08	KS	EET MIC
Soluble	Analysis	300.0		20			39334	11/12/22 02:58	CH	EET MID

Client Sample ID: SW-78 (4-10') Lab Sample ID: 890-3411-12

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			4.97 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') Lab Sample ID: 890-3411-13

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 MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	39369	11/13/22 03:26	MNR	EET MIC
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 MIC
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') Lab Sample ID: 890-3411-14 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			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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Released to Imaging: 9/1/2023 3:25:35 PM

Matrix: Solid

Matrix: Solid

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 Lab Sample ID: 890-3411-14

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			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	Туре	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

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Matrix: Solid

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Matrix: Solid

Matrix: Solid

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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 14:58

	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	NI	ELAP	T104704400-22-24	06-30-23
The following analytes	ara inalizadad in thia ranart hi	it the leberatory is not contiffe	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
,	. ,	Matrix	Analyte	ay include analytes for t
the agency does not of	fer certification.	•	, , ,	ay include analytes for v

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

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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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Project Location (county, state) Relinquished by Analysis Request of Chain of Custody Record roject Name: eceiving Laboratory tient Name: LAB USE LAB# ᆏ BH-206 (10') BH-208 (10') BH-200 (10') BH-201 (10') BH-205 (10°) BH-204 (10°) BH-211 (10") BH-210 (10') BH-209 (10') BH-212 (10) Eurofins Xenco Lea County, NM Permian Water Solutions Permian Water Solutions - Dusty McInturfi Kaiser SWD Tetra Tech, Inc. SAMPLE IDENTIFICATION ORIGINAL COPY Sampier Signature Project # 11/7/2022 11/7/2022 11/7/2022 11/7/2022 EAR: 2020 11/7/2022 11/7/2022 11/7/2022 11/7/2022 11/7/2022 11/7/2022 DATE SAMPLING Clair.Gonzales@tetratech.com TIME WATER Clair Gonzales MATRIX × × × × × $\times \times \times$ SOIL Peyton Oliver 212C-MD-02230 Tel (432) 682-4559 Date: Date: HCL PRESERVATIVE HNO₃ × × ICE None # CONTAINERS FILTERED (Y/N) 0000 0000 × BTEX 8021B BTEX 8260B LAB USE ONLY TPH TX1005 (Ext to C35) 890-3411 Chain of Custody HAND DELIVERED × × TPH 8015M (GRO - DRO - ORO - MRO) PAH 8270C 5007 Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg REMARKS: TCLP Volatiles RUSH: Same Day TCLP Semi Volatiles FEDEX UPS Rush Charges Authorized Special Report Limits or TRRP Repor RCI STANDARD GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 NORM PLM (Asbestos) 24 hr XX $\times \times \times$ Chloride Chloride Sulfate TDS 48 hr 72 hr General Water Chemistry (see attached list) ō Anion/Cation Balance 잌 Hold

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ORIGINAL COPY

7	Tetra Tech, Inc.		SUTW WA Midland, Te Tel (432)	90170 Wall Street, Sie 100 Midland,Texas 79705 Tel (432) 682-4559									- 1							V					
			Fax (Fax (432) 682-3946																					
Client Name:	Permian Water Solutions	Site Manager:	Clair Gonzales	zales		_	ANALYSIS	YSI		REQUEST	S	0					,	2	2	-					
Project Name:	Kaiser SWD	Clair	Clair.Gonzales@tetratech.com	ratech.com					_ 7			9	fe	9	<	}		8		§					
Project Location: (county, state)	Lea County, NM	Project #	2120-	212C-MD-02230																st)					
invoice to:	Permian Water Solutions - Dusty McInturff							RO)		-Ig										iched li					
Receiving Laboratory:		Sampler Signature:	Peytor	Peyton Oliver				RO - M		o Se										e atta					
Comments:						C 8260B	C35)	DRO - O	-	a Cd Cr				70C/625					TDS		ce				
		SAMPLING	MATRIX	PRESERVATIVE METHOD			Ext to	GRO -				4			608		s)		ulfate		Balan				
D #:	SAMPLE IDENTIFICATION	YEAR: 2020	1				1005 (_					-	-	082/6						ation				
(LABUSE)		DATE TIME	WATER SOIL	HCL HNO ₃ ICE None	# CONT.	FILTERI BTEX 80	TPH TX	TPH 80°	Total Me	TCLP Me	TCLP Se	RCI	GC/MS \	GC/MS S	PCB's 8	NORM	PLM (As	Chloride	Chloride	General	Anion/C				
SI	SW-75 (4-10')	11/7/2022	×	×		×		×		-			_		-	_	-	×		-	_	-	-		
SI	SW-78 (4-10')	11/7/2022	×	×		×		×		-			_	_	_	-	-	×		_	1	-	-		
SI	SW-79 (4-10')	11/7/2022	×	×		×		×		-				L	-	-	L.	×	_	-	-	-	-		L
SI	SW-80 (4.5-10')	11/7/2022	×	×		×		×					L	_	-	1	-	×	_	-	-	-	-		L
SI	SW-81 (4.5-10')	11/7/2022	×	×		×		×		-			_	_	-	-		×	_		_	_	-		_
SI	SW-82 (4.5-10')	11/7/2022	×	×		×		×		-			_	_	-	\vdash	1	×	_	-	1	+	+		
SI	SW-83 (4-10')	11/7/2022	×	×		×		×		+			_	_	-	-	1.	×	_	1	+	+	+		
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Relinquished by:	,	Received by:		Date: Time:		S	Sample Temperature	edure.	rature			RU	H	Sa	RUSH: Same Day	Da)		24 hr		48 hr		72 hr	_		
Relinquished by:	Pla thy 11/12 1458	Received by:		Date: Time:			10	ro,	-			Rush Charges Authorized	Cial C	har	es.	Lim Aut	is o	77 FE	쮸	R	Rush Charges Authorized Special Report Limits or TRRP Report	-			
		-				2	(Circle) HAND DELIVERED	HAND	DELL	R-		FEDEX	UPS	S	78	Tracking #:	#							'	

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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	

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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

Creator: Rodriguez, Leticia

Login Number: 3411

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	

11/14/2022

<6mm (1/4").

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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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 I	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: 890-3412-1

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 Fa
Total TPH	<49.9	U	49.9		mg/Kg		<u>.</u>	11/14/22 09:30	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte		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	,
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		Qualifier	oluble 	MDL	Unit mg/Kg	D	Prepared	Analyzed 11/12/22 04:17	Dil Fac

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				
BFB = 4-Bromofluorobe	nzene (Surr)			
DFBZ = 1,4-Difluoroben	zene (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)	
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

OTPH = o-Terphenyl

Eurofins Carlsbad

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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

	МВ	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
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

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 Ethylbenzene mg/Kg 89 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 Qual	ifier 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	

Eurofins Carlsbad

Prep Batch: 39140

Prep Type: Total/NA

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Prep Batch: 39172

70 - 130

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

Ethylbenzene <0.00200 U	-	Sample S	Sample	Spike	MS	MS				%Rec	
m-Xylene & p-Xylene	Analyte	Result C	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Ethylbenzene	<0.00200 U	U	0.0996	0.07882		mg/Kg		79	70 - 130	
V. I	m-Xylene & p-Xylene	<0.00401 U	U	0.199	0.1462		mg/Kg		73	70 - 130	
o-Xylene <0.00200 U 0.0996 0.08198 mg/Kg 82	o-Xylene	<0.00200 U	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

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Analysis Batch: 39369

Prep Batch: 39140 Sample Sample Spike MSD MSD RPD Result Qualifier Result Qualifier RPD Limit Added Unit %Rec Limits 0.0998 <0.00200 U 0.08398 mg/Kg 84 70 - 130 10 35 0.0998 <0.00200 U 0.08420 mg/Kg 84 70 - 130 5 35 <0.00200 U 0.0998 0.08062 mg/Kg 81 70 - 130 2 35 <0.00401 U 0.200 0.1625 70 - 130 35 m-Xylene & p-Xylene mg/Kg 81 11

0.09115

mg/Kg

MSD MSD

<0.00200 U

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

0.0998

Analysis Batch: 39269

	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		11/10/22 08:48	11/11/22 09:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 08:48	11/11/22 09:30	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:48	11/11/22 09:30	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	11/10/22 08:4	8 11/11/22 09:30	1
o-Terphenyl	134	S1+	70 - 130	11/10/22 08:4	8 11/11/22 09:30	1

Lab Sample ID: LCS 880-39172/2-A

Matrix: Solid

Released to Imaging: 9/1/2023 3:25:35 PM

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

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Job ID: 890-3412-1

SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-39172/2-A

Matrix: Solid

Analysis Batch: 39269

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 39172

LCS LCS

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 94 70 - 130 o-Terphenyl 97 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Batch: 39172

Lab Sample ID: LCSD 880-39172/3-A **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 39269

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)

Matrix: Solid

Analysis Batch: 39269

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	109		70 - 130

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 39172

Sample Sample Spike MS MS 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

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	86	70 - 130
o-Terphenyl	79	70 - 130

Lab Sample ID: 890-3402-A-1-H MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Lab Sample ID: 890-3402-A-1-G MS

Analysis Batch: 39269

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	55.1	*1	999	978.6		mg/Kg		92	70 - 130	3	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<50.0	U	999	796.8		mg/Kg		77	70 - 130	8	20	
C10 C20)												

C10-C28)

MSD MSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	82	70 _ 130
o-Terphenyl	73	70 - 130

Job ID: 890-3412-1 Client: Tetra Tech, Inc. 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

Client Sample ID: Method Blank **Prep Type: Soluble**

Dil Fac Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 11/12/22 00:57

мв мв

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 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 Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

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 Client Sample ID: Matrix Spike **Prep Type: Soluble**

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

Eurofins Carlsbad

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

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

Eurofins Carlsbad

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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

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	and the divided the first and a section.			
the agency does not of	• •	it the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for
,	• •	It the laboratory is not certifi 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: 890-3412-1

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

Eurofins Carlsbad

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Sample Summary

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD Job ID: 890-3412-1

SDG: Lea County NM

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'

	Relinquished by:	Reinquianed by:	Jen	Relinguished by:							7	(LABUSE)	LAB #		Comments:	Receiving Laboratory:	Invoice to:	Project Location: (county, state)	Project Name:	Client Name:	큠	Analysis Rec	
		la Stut	1/2	11							н-9 (5')		SAMPLE			ey: Eurofins Xenco		Lea County, NM	Kaiser SWD	Permian Water Solutions	Tetra	Analysis Request of Chain of Custody Record	
	Time	11/2/22 1458	2	Date: Time:									SAMPLE IDENTIFICATION				Permian Water Solutions - Dusty McInturff	M		Solutions	Tetra Tech, Inc.	dy Record	
ORIGINAL COPY	Received by:	received by:		Received by:							11/7/2022	DATE	YEAR: 2020	SAMPLING		Sampler Signature:		Project #:	<u>Clair.</u>	Site Manager:			
Ye	Date:	Care		Date:							×	WATE SOIL HCL	R	MATRIX		Peyton Oliver		212C-MD-02230	Clair.Gonzales@tetratech.com	Clair Gonzales	Midland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946	SULPA ANTOE	
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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 True tampered with. Samples were received on ice. True True Cooler Temperature is acceptable. 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 True HTs) 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 N/A Sample Preservation Verified. There is sufficient vol. for all requested analyses, incl. any requested True MS/MSDs Containers requiring zero headspace have no headspace or bubble is N/A <6mm (1/4").

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Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-3412-1

SDG Number: Lea County NM

List Source: Eurofins Midland

List Creation: 11/09/22 10:47 AM

Login Number: 3412 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

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

Client: Tetra Tech, Inc. Job ID: 890-3413-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

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.			

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

LOD

NC

Cioccai	
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
DI	Potostian Limit /Pop/POE\

or additional Initial metals/anion analysis of the sample

DL, RA, RE, IN	Ind	icate	s a l	Dilution,	Re-ar	nalysis,	Re-e	extract	ior	١,
	_									

DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)

LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)

Limit of Detection (DoD/DOE)

MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limi

ND	Not Detected at the reporting I	limit (or MDL or EDL if shown)

NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive

QC	Quality Control
RFR	Relative Error Ratio (Radiochemistry)

Not Calculated

RL	Reporting Limit or Requested Limit (R	adiochemistry)

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: 890-3413-1

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: 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	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/09/22 15:36	11/13/22 05:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				11/09/22 15:36	11/13/22 05:30	1
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	ı
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	11							
		U	50.0		mg/Kg			11/14/22 09:30	1
Method: SW846 8015B NM - Die	sel Range Orga				mg/Kg			11/14/22 09:30	1
	• •			MDL	mg/Kg Unit	D	Prepared	11/14/22 09:30 Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	• •	nics (DRO)	(GC)	MDL		<u>D</u>	Prepared 11/10/22 08:48		1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	nics (DRO) Qualifier U *1	(GC)	MDL	Unit	<u>D</u>	<u>.</u>	Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	nics (DRO) Qualifier U *1	(GC) RL 50.0	MDL	Unit mg/Kg	<u>D</u>	11/10/22 08:48	Analyzed 11/11/22 18:41	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result < 50.0 <50.0	nics (DRO) Qualifier U*1 U	(GC) RL 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	11/10/22 08:48	Analyzed 11/11/22 18:41 11/11/22 18:41	Dil Fac
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	nics (DRO) Qualifier U*1 U	(GC) RL 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	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 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	Result	nics (DRO) Qualifier U*1 U	(GC) RL 50.0 50.0 50.0 Limits	MDL	Unit mg/Kg mg/Kg	<u>D</u>	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 Face 1 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	Result	Nics (DRO) Qualifier U*1 U Qualifier	RL 50.0 50.0 50.0 50.0 Limits 70 - 130 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	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 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Nics (DRO) Qualifier U*1 U Qualifier	RL 50.0 50.0 50.0 50.0 Limits 70 - 130 70 - 130		Unit mg/Kg mg/Kg	<u>D</u>	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

Job ID: 890-3413-1 Client: Tetra Tech, Inc. 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	
_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	
390-3413-1	H-8 (5')	110	109	
CS 880-39140/1-A	Lab Control Sample	81	100	
CSD 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

		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
890-3413-1	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

Client: Tetra Tech, Inc. Job ID: 890-3413-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

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	Prepare	d ,	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	11/09/22 1	5:36 11/	12/22 21:52	1
1,4-Difluorobenzene (Surr)	100		70 - 130	11/09/22 1	5:36 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 Ethylbenzene mg/Kg 89 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	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	

Prep Batch: 39140

Prep Type: Total/NA

Prep Batch: 39172

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 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	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

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	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/10/22 08:48	11/11/22 09:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/10/22 08:48	11/11/22 09:30	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:48	11/11/22 09:30	1

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

Matrix: Solid							Prep '	Туре: То	otal/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)									

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Client Sample ID: Lab Control Sample

Job ID: 890-3413-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: 212C-MD-02230

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-39172/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Surrogate

Analysis Batch: 39269

Prep Type: Total/NA

Prep Batch: 39172

1-Chlorooctane 94 70 - 130 o-Terphenyl 97 70 - 130

LCS LCS

%Recovery Qualifier

Lab Sample ID: LCSD 880-39172/3-A Client Sample ID: Lab Control Sample Dup

Limits

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 mg/Kg 95 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)

MSD MSD %Recovery Qualifier Surrogate Limits

1-Chlorooctane 82 70 - 130 73 70 - 130 o-Terphenyl

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

MR MR

Job ID: 890-3413-1 SDG: 212C-MD-02230

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-39128/1-A

Client Sample ID: Method Blank

Prep Type: Soluble

Analysis Batch: 39334

Matrix: Solid

Analyte Chloride

111.5								
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<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 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 Client Sample ID: Lab Control Sample Dup **Matrix: Solid**

Prep Type: Soluble

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 Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 39334

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 14500 5010 21010 F1 130 90 - 110 mg/Kg

Lab Sample ID: 890-3411-A-11-C MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

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 890-3413-1	Client Sample ID H-8 (5')	Prep Type Total/NA	Matrix Solid	Method 8021B	Prep Batch 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

Released to Imaging: 9/1/2023 3:25:35 PM

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.

Job ID: 890-3413-1

Project/Site: Kaiser SWD

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

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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, but	t the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for
the agency does not of	• '	t the laboratory is not certain	ed by the governing authority. This list his	ay include analytes for
,	• '	Matrix	Analyte	ay include analytes for
the agency does not of	fer certification.	•	, , ,	ay include analytes for

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Microextraction

Closed System Purge and Trap

Deionized Water Leaching Procedure

EET MID

EET MID

Method Summary

Client: Tetra Tech, Inc. Job ID: 890-3413-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

			3
Method Description	Protocol	Laboratory	
Volatile Organic Compounds (GC)	SW846	EET MID	- A
Total BTEX Calculation	TAL SOP	EET MID	
Diesel Range Organics (DRO) (GC)	SW846	EET MID	E
Diesel Range Organics (DRO) (GC)	SW846	EET MID	5
Anions, Ion Chromatography	MCAWW	EET MID	
Closed System Purge and Trap	SW846	EET MID	

SW846

ASTM

Protocol References:

Method

8021B

Total BTEX 8015 NM

8015B NM

8015NM Prep

DI Leach

300.0

5035

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: 890-3413-1 SDG: 212C-MD-02230

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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	Relinquished by:	Are al	Relinquished by:	Relinquished by:								H-8 (5')	(LABUSE)	LAB#		Comments:	Receiving Laboratory:	Invoice to:	(county, state)	Project Name:	Client Name:		1	Analysis Reques	
	Date: Time:	0	Date: Time:	Date: Time:								3")		SAMPLE IDENTIFICATION			Eurofins Xenco	Permian Water Solutions - Dusty McInturff	Lea County, NM	Kaiser SWD	Permian Water Solutions	,	Tetra Tech, Inc.	Analysis Request of Chain of Custody Record	
	Received by:		Received by:	Received by:								11/7/2022	DATE	YEAR: 2020	SAMPLING		Sampler Signature:		Project #:		Site Manager				
												×	WATER SOIL	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	MATRIX		Peyton Oliver		212C-N	Clair.Gonzales@tetratech.com	Clair Gonzales	Fax (432) 682-3	Midland, Texas 79705		
	Date: Time:	•	Date: Time:	Date: Ime:	-							×	HCL HNO ₃ ICE None		PRESERVATIVE METHOD		Oliver		212C-MD-02230	atech.com	zales	Eax (432) 682-3946	MBS 79705	890-3413 Ch	
													# CONT											Chain of Custody	
(Cir	1.1	W	San	5								×	BTEX 8	021B	вте	X 8260	В	<u> </u>	<u> </u>		>	1		ustod	
(Circle) HAND DELIVERED	3 0	20	Sample Temperature	LAB USE ONLY	-							×	TPH TX		_		OPO I	MPO			ANALYSIS REQUEST			~	
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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

Login Number: 3413 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	

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: 890-3414-1

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

Method: SW846 8021B - Volatile Organic Compounds (GC)

Date Received: 11/07/22 14:58 Sample Depth: 0-4'

REMOVED FROM ANALYSIS TABLE Lab Sample ID: 890-3414-1

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 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)	118		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 - T	otal 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	l Range Organ	ics (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 09:30	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte		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 14:04	1
(GRO)-C6-C10									
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
							D		D# 5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	%Recovery 90	Qualifier	70 - 130				11/10/22 08:48	11/11/22 14:04	DII Fac

70 - 130

RL

25.1

MDL Unit

MDL Unit

mg/Kg

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'

o-Terphenyl

Analyte

Chloride

REMOVED FROM ANALYSIS TABLE

Result Qualifier

2370

Lab Sample ID: 890-3414-2

Analyzed

11/11/22 14:04

Analyzed

11/12/22 04:10

11/10/22 08:48

Prepared

Prepared

D

D

Matrix: Solid

Dil Fac

Dil Fac

Method: SW846 8021B - Volatile C	Organic Comp	ounds (GC)
Analyte	Result	Qualifier
Ponzono	<0.00201	11

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

· ····································						·	
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

RL

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 Sample Depth: 0-4' REMOVED FROM ANALYSIS TABLE

Lab Sample ID: 890-3414-2

Matrix: Solid

Solid

5

6

7

10

12

13

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,4-Difluorobenzene (Surr)	106		70 - 130				11/09/22 16:01	11/14/22 13:48	
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402	U	0.00402		mg/Kg			11/14/22 16:19	
- Method: SW846 8015 NM - Dies	sel Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	161		50.0		mg/Kg			11/14/22 09:30	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Method: SW846 8015B NM - Die	esel Range Orga	nics (DRO)	(GC)						
Gasoline Range Organics	<50.0	U *1	50.0		mg/Kg		11/10/22 08:48	11/11/22 13:43	•
(GRO)-C6-C10	540		50.0		m = /1/ =		11/10/22 08:48	11/11/22 13:43	
Diesel Range Organics (Over C10-C28)	54.3		50.0		mg/Kg		11/10/22 00.40	11/11/22 13.43	
Oll Range Organics (Over	107		50.0		mg/Kg		11/10/22 08:48	11/11/22 13:43	
C28-C36)					5 5				
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	92		70 - 130				11/10/22 08:48	11/11/22 13:43	
							11/10/22 08:48	11/11/22 13:43	

RL

24.9

MDL Unit

mg/Kg

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'

Analyte

Chloride

REMOVED FROM ANALYSIS TABLE

Result Qualifier

3500

Lab Sample ID: 890-3414-3

Analyzed

11/12/22 04:15

Prepared

Matrix: Solid

Dil Fac

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: 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 16:19	1

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ANALYSIS TABLE

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ANALYSIS TABLE

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-3414-1 SDG: 212C-MD-02230

Client Sample ID: SW-79 (0-4')

Lab Sample ID: 890-3414-3

Date Collected: 11/07/22 12:00 Date Received: 11/07/22 14:58

Matrix: Solid

Sample Depth: 0-4'

Method: SW846 8015 NM - Diesel I	Range Organ	ics (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 09:30	1

Total TPH -	<49.9	U	49.9		mg/Kg			11/14/22 09:30	•
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 (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		11/10/22 08:48	11/11/22 14:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/10/22 08:48	11/11/22 14:26	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/10/22 08:48	11/11/22 14:26	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	100		70 - 130				11/10/22 08:48	11/11/22 14:26	
o-Terphenyl	107		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

Client Sample ID: SW-83 (0-4') Date Collected: 11/07/22 12:00

Lab Sample ID: 890-3414-4

Matrix: Solid

Date Received: 11/07/22 14:58

Sample Depth: 0-4'

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: IAL SOP Total BTEX - Total	al BIEX 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 16:19	1

Method: SW846 8015 NM - Diesel Ra	nge Organ	ics (DRO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			11/14/22 09:30	1
Method: SW846 8015B NM - Diesel R	ange Orga	nics (DRO) (GC	()						
Analyto	Docult	Qualifier	DI	MDI	Unit	n	Droparod	Analyzod	Dil Eac

П				()						
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Gasoline Range Organics	<50.0	U *1	50.0		mg/Kg		11/10/22 08:48	11/11/22 14:47	1
	(GRO)-C6-C10									
	Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		11/10/22 08:48	11/11/22 14:47	1
	C10-C28)									
	OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/10/22 08:48	11/11/22 14:47	1
ď										

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	1	D	Prepared	Analyzed	Dil Fac
Chloride	2340		25.1		mg/Kg				11/12/22 04:35	5

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 Limits)
		BFB1	DFBZ1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-3411-A-1-D MS	Matrix Spike	77	102	
90-3411-A-1-E MSD	Matrix Spike Duplicate	95	96	
90-3414-1	SW-75 (0-4')	118	114	
90-3414-2	SW-78 (0-4')	97	106	
90-3414-2 MS	SW-78 (0-4')	111	97	
90-3414-2 MSD	SW-78 (0-4')	105	106	
90-3414-3	SW-79 (0-4')	106	100	
90-3414-4	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	
/IB 880-39140/5-A	Method Blank	89	100	
//B 880-39148/5-A	Method Blank	81	106	
Surrogate Legend				
BFB = 4-Bromofluorober	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	
890-3414-4	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

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 Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 39369

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

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 39369

Client Sample ID: Lab Control Sample Dup

70 - 130

96

Prep Type: Total/NA Prep Batch: 39140

RPD LCSD LCSD Spike %Rec Added Result Qualifier Unit %Rec Limits Limit 0.100 0.09869 mg/Kg 99 70 - 130 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 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

Prep Batch: 39140

35

MS MS Sample Sample Spike 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

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

Lab Sample ID: 890-3411-A-1-E MSD **Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA**

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

MB MB

Analyte	Result	Qualifier	RL	MDL U	Jnit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	n	ng/Kg		11/09/22 16:01	11/14/22 13:20	1
Toluene	<0.00200	U	0.00200	n	ng/Kg		11/09/22 16:01	11/14/22 13:20	1
Ethylbenzene	<0.00200	U	0.00200	n	mg/Kg		11/09/22 16:01	11/14/22 13:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	n	ng/Kg		11/09/22 16:01	11/14/22 13:20	1
o-Xylene	<0.00200	U	0.00200	n	ng/Kg		11/09/22 16:01	11/14/22 13:20	1
Xylenes, Total	<0.00400	U	0.00400	n	ng/Kg		11/09/22 16:01	11/14/22 13:20	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	11/09/22 16:0	11/14/22 13:20	1
1,4-Difluorobenzene (Surr)	106		70 - 130	11/09/22 16:0	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
	Pren 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

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: LCS 880-39148/1-A **Matrix: Solid**

Lab Sample ID: LCSD 880-39148/2-A

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

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 97 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 103

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 39148

Matrix: Solid Analysis Batch: 39393 Prep Batch: 39148

Spike LCSD LCSD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit 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

LCSD LCSD 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

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	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	U F1	0.100	0.08382		mg/Kg		84	70 - 130	
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.1547		mg/Kg		77	70 - 130	
o-Xylene	< 0.00201	U F1	0.100	0.07599		mg/Kg		75	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 111 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 97

Lab Sample ID: 890-3414-2 MSD Client Sample ID: SW-78 (0-4')

Matrix: Solid Analysis Ratch: 39393

Analysis Batch: 39393									Prep	Batcn:	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

Eurofins Carlsbad

Prep Type: Total/NA

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: 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:	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

Tep Type: Total/TA

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-Terphenyl	97	70 - 130

Lab Sample ID: LCSD 880-39172/3-A

Analysis Batch: 39269

Matrix: Solid

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 39172

LCSD LCSD Spike %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Gasoline Range Organics 1000 1003 *1 100 70 - 130 21 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 950.2 95 70 - 130 12 20 mg/Kg

C10-C28)

LCSD LCSD

Surrogate	%Recovery Qualifi	er Limits
1-Chlorooctane	107	70 - 130
o-Terphenyl	109	70 - 130

Eurofins Carlsbad

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Job ID: 890-3414-1 Client: Tetra Tech, Inc. 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 Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 55.1 *1 997 1007 mg/Kg 95 70 - 130 (GRO)-C6-C10 997 Diesel Range Organics (Over <50.0 U 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 Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 39269

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	<50.0	U	999	796.8		mg/Kg		77	70 - 130	8	20

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	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

Matrix: Solid **Prep Type: Soluble**

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 LCS	3			%Rec	
Analyte	Added	Result Qua	alifier 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 Client Sample ID: SW-79 (0-4') **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 39335

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%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 RPD Result Qualifier Added Result Qualifier Limits Limit Analyte Unit %Rec

1260 Chloride 1520 F1 3027 F1 mg/Kg 120 90 - 110 5

Client: Tetra Tech, Inc.

Job ID: 890-3414-1

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
890-3414-1	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	

Eurofins Carlsbad

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Job ID: 890-3414-1 Client: Tetra Tech, Inc. 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

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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Client: Tetra Tech, Inc. Job ID: 890-3414-1 Project/Site: Kaiser SWD SDG: 212C-MD-02230

Client Sample ID: SW-75 (0-4')

Lab Sample ID: 890-3414-1 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			5.03 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	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	39148	11/09/22 16:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	39393	11/14/22 13:48	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			10.01 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 13:43	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	39126	11/09/22 15:04	KS	EET MIC
Soluble	Analysis	300.0		5	0 mL	1.0 mL	39335	11/12/22 04:15	CH	EET MID

Client Sample ID: SW-79 (0-4') Lab Sample ID: 890-3414-3

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			5.02 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

Client Sample ID: SW-83 (0-4') Lab Sample ID: 890-3414-4

Date Collected: 11/07/22 12:00 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	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

Eurofins Carlsbad

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Matrix: Solid

Matrix: Solid

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		ELAP	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
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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

Eurofins Carlsbad

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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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		y: / Date: Time:	Selver Hard De)	- W1/22	ov: Date: Time:						0.00 (0.1)	SW-83 (0-4")	SW-79 (0-4")	SW-78 (0-4")	SW-75 (0-4')			SAMPLE IDENTIFICATION			ratory: Eurofins Xenco	Permian Water Solutions - Dusty McInturff	n: Lea County, NM	Kaiser SWD	Permian Water Solutions	Tetra Tech, Inc.	Analysis Request of Chain of Custody Record	
ORIGINAL COPY		Received by:		Received by:		Received by:							11/7/2022	11/7/2022	11/7/2022	11/7/2022	ĐA [*]		YEAR: 2020	SAMPLING		oampier oignature:		Project #:		Site Manager			
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Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-3414-1

SDG Number: 212C-MD-02230

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	

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Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-3414-1

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: 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 Jessica.Kramer@et.eurofinsus.com (432)704-5440

12/27/2022

Page 2 of 30

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Laboratory Job ID: 890-3652-1 SDG: Lea County NM

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Definitions/Glossary

Job ID: 890-3652-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

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**

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

Percent Recovery %R 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) Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

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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Job ID: 890-3652-1 SDG: Lea County NM

12/16/22 09:37

12/16/22 09:37

Prepared

D

12/18/22 19:01

12/18/22 19:01

Analyzed

12/23/22 21:57

Dil Fac

Matrix: Solid

Client Sample ID: BH-210 (11')

Date Collected: 12/14/22 12:00 Date Received: 12/14/22 12:37

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

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
Total BTEX : Method: SW846 8015 NM - Diesel F	<0.00398		0.00398 GC)		mg/Kg			12/27/22 09:32	
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0		mg/Kg			12/19/22 15:23	1
Method: SW846 8015B NM - Diesel	Range Orga	nics (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		12/16/22 09:37	12/18/22 19:01	•
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/16/22 09:37	12/18/22 19:01	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/16/22 09:37	12/18/22 19:01	

Client Sample ID: SW-75 (0-4')

Lab Sample ID: 890-3652-2

RL

5.00

MDL Unit

mg/Kg

70 - 130

70 - 130

86

80

699

Result Qualifier

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Date Collected: 12/14/22 12:00 Date Received: 12/14/22 12:37

1-Chlorooctane

o-Terphenyl

Analyte

Chloride

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

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2

3

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8

10

12

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Client: Tetra Tech, Inc. Job ID: 890-3652-1 Project/Site: Kaiser SWD SDG: Lea County NM

Client Sample ID: SW-75 (0-4')

Method: TAL SOP Total BTEX - Total BTEX Calculation

Date Collected: 12/14/22 12:00 Date Received: 12/14/22 12:37

Lab Sample ID: 890-3652-2

Analyzed

12/23/22 22:24

Prepared

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 - Diesel	Range Organi	ics (DRO) (G	C)						
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 - Diese	l Range Orga	nics (DRO) (GC)						
Method: SW846 8015B NM - Diese Analyte		nics (DRO) (Qualifier	GC)	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier	•	MDL	Unit mg/Kg	<u>D</u>	Prepared 12/16/22 09:37	Analyzed 12/18/22 19:23	Dil Fac
Analyte Gasoline Range Organics	Result	Qualifier	RL	MDL		<u>D</u>	<u>·</u>		Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result	Qualifier U	RL	MDL		<u>D</u>	<u>·</u>		Dil Fac
Analyte	<50.0	Qualifier U	RL 50.0	MDL	mg/Kg	<u>D</u>	12/16/22 09:37	12/18/22 19:23	Dil Fac

o-Terphenyl	97	70 - 130			12/16/22 09:37	12/18/22 19:23	1
Method: MCAWW 300.0 - Anions,	• • •			_	_		
Analyte	Result Qualifier	RL	MDL Unit	- п	Prepared	Analyzed	Dil Fac

Limits

%Recovery Qualifier

1020

Client Sample ID: SW-75 (4-10') Lab Sample ID: 890-3652-3 Date Collected: 12/14/22 12:00 **Matrix: Solid**

5.04

mg/Kg

Date Received: 12/14/22 12:37

Released to Imaging: 9/1/2023 3:25:35 PM

Surrogate

Chloride

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
4-Bromofluorobenzene (Surr)	95		70 - 130				12/22/22 12:14	12/27/22 02:56	1
	20		70 ₋ 130				12/22/22 12:14	12/27/22 02:56	1
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX Analyte		culation Qualifier	70 - 130 RL	MDL	Unit	D	Prepared	Analyzed	
Method: TAL SOP Total BTEX	- Total BTEX Cald			MDI	l Init	D			
Method: TAL SOP Total BTEX	- Total BTEX Cald	Qualifier		MDL	Unit mg/Kg	<u>D</u>			Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00399 esel Range Organ	Qualifier U	RL 0.00399		mg/Kg		Prepared	Analyzed 12/27/22 09:32	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00399 esel Range Organ Result	Qualifier U ics (DRO) (Qualifier	RL 0.00399	MDL	mg/Kg	<u>D</u>		Analyzed	Dil Fac
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	RL 0.00399		mg/Kg		Prepared	Analyzed 12/27/22 09:32	Dil Fac
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	RL 0.00399 GC) RL 49.9		mg/Kg		Prepared	Analyzed 12/27/22 09:32 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00399 esel Range Organ Result <49.9	Qualifier U ics (DRO) (Qualifier U	RL 0.00399 GC) RL 49.9	MDL	mg/Kg		Prepared	Analyzed 12/27/22 09:32 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D	- Total BTEX Calc Result <0.00399 esel Range Organ Result <49.9	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	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

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Dil Fac

Client: Tetra Tech, Inc.

Project/Site: Kaiser SWD

Job ID: 890-3652-1 SDG: Lea County NM

Client Sample ID: SW-75 (4-10') Lab Sample ID: 890-3652-3

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
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 Chromatogr	aphy - Soluble						
Analyte	Result Qu	ualifier RL	MDL U	Jnit	D	Prepared	Analyzed	Dil Fac
Chloride	1390	25.2	n	ng/Kg			12/23/22 22:32	5

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

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)	93		70 - 130				12/22/22 12:14	12/27/22 04:00	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			12/27/22 09:32	1
		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Analyte Total TDH		Qualifier	RL	MDL		D	Prepared	Analyzed	
Total TPH	<49.9	U	49.9	MDL	mg/Kg	<u>D</u>	Prepared	Analyzed 12/19/22 15:35	
Total TPH Method: SW846 8015B NM - Dies	<49.9	U nics (DRO)	49.9 (GC)		mg/Kg	=		12/19/22 15:35	
Total TPH Method: SW846 8015B NM - Dies Analyte	<49.9 sel Range Orga Result	nics (DRO) Qualifier	49.9 (GC)		mg/Kg	D	Prepared	12/19/22 15:35 Analyzed	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	<49.9	nics (DRO) Qualifier	49.9 (GC)		mg/Kg	=		12/19/22 15:35	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.9 sel Range Orga Result	U nics (DRO) Qualifier U	49.9 (GC)		mg/Kg	=	Prepared	12/19/22 15:35 Analyzed	Dil Fac
Total TPH Method: SW846 8015B NM - Dies	<49.9 sel Range Orga Result <49.9	nics (DRO) Qualifier U	(GC) RL 49.9		mg/Kg Unit mg/Kg	=	Prepared 12/15/22 15:21	12/19/22 15:35 Analyzed 12/18/22 07:12	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9 sel Range Orga Result <49.9 <49.9	Dics (DRO) Qualifier U U	49.9 (GC) RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 12/15/22 15:21 12/15/22 15:21	12/19/22 15:35 Analyzed 12/18/22 07:12 12/18/22 07:12	Dil Fac
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)	<49.9 sel Range Orga Result <49.9 <49.9 <49.9	Dics (DRO) Qualifier U U	49.9 (GC) RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 12/15/22 15:21 12/15/22 15:21 12/15/22 15:21	12/19/22 15:35 Analyzed 12/18/22 07:12 12/18/22 07:12 12/18/22 07:12	Dil Fac
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	<49.9 sel Range Orga Result <49.9 <49.9 <49.9 %Recovery	Dics (DRO) Qualifier U U	49.9 (GC) RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 12/15/22 15:21 12/15/22 15:21 12/15/22 15:21 Prepared	12/19/22 15:35 Analyzed 12/18/22 07:12 12/18/22 07:12 12/18/22 07:12 Analyzed	Dil Fac
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	<49.9 sel Range Orga Result <49.9 <49.9 <49.9 *Recovery 110 <126	Unics (DRO) Qualifier U U Qualifier	49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg	=	Prepared 12/15/22 15:21 12/15/22 15:21 12/15/22 15:21 Prepared 12/15/22 15:21	12/19/22 15:35 Analyzed 12/18/22 07:12 12/18/22 07:12 12/18/22 07:12 Analyzed 12/18/22 07:12	Dil Fac
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	sel Range Orga Result <49.9 <49.9 <49.9 **Recovery 110 126 5, Ion Chromato	Unics (DRO) Qualifier U U Qualifier	49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 12/15/22 15:21 12/15/22 15:21 12/15/22 15:21 Prepared 12/15/22 15:21	12/19/22 15:35 Analyzed 12/18/22 07:12 12/18/22 07:12 12/18/22 07:12 Analyzed 12/18/22 07:12	Dil Fac

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

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total BTEX <0.00399 0.00399 mg/Kg 12/27/22 09:32

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 12/19/22 15:35 mg/Kg

Method: SW846 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		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)									
OII 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 4.95 Chloride 613 mg/Kg 12/23/22 22:50

Client Sample ID: SW-83 (0-4')

Date Received: 12/14/22 12:37

Date Collected: 12/14/22 12:00

Lab Sample ID: 890-3652-6

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 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

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	
b Sample ID	Client Sample ID	(70-130)	(70-130)	
0-3638-A-1-D MS	Matrix Spike	92	72	
0-3638-A-1-E MSD	Matrix Spike Duplicate	106	81	
0-3644-A-1-E MS	Matrix Spike	104	104	
0-3644-A-1-F MSD	Matrix Spike Duplicate	104	103	
0-3652-1	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	
SD 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

Job ID: 890-3652-1 Client: Tetra Tech, Inc. 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	IB 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			
Toluene	<0.00200	U	0.00200		mg/Kg		12/22/22 10:36	12/26/22 13:51			
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/22/22 10:36	12/26/22 13:51			
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/22/22 10:36	12/26/22 13:51			
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/22/22 10:36	12/26/22 13:51	•		
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/22/22 10:36	12/26/22 13:51			

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	12/22/22 10:	12/26/22 13:51	1
1,4-Difluorobenzene (Surr)	92		70 - 130	12/22/22 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

12/26/22 23:30

Prep Type: Total/NA

Prep Batch: 42514

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 12/22/22 12:14 12/26/22 23:30 Toluene <0.00200 U 0.00200 mg/Kg 12/22/22 12:14 12/26/22 23:30 mg/Kg Ethylbenzene <0.00200 U 0.00200 12/22/22 12:14 12/26/22 23:30 12/22/22 12:14 12/26/22 23:30 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 12/26/22 23:30 o-Xylene <0.00200 U 0.00200 mg/Kg 12/22/22 12:14

0.00400

mg/Kg

MB MB

<0.00400 U

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

Xylenes, Total

Analysis Batch: 42596

Client Sample ID: Lab Control Sample

12/22/22 12:14

Prep Type: Total/NA Prep Batch: 42514

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %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 0.09703 0.100 70 - 130 o-Xylene mg/Kg 97

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				70 KeC		KPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09605	mg/Kg		96	70 - 130	2	35

LCCD LCCD

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Eurofins Carlsbad

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o-Xylene

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Client: Tetra Tech, Inc.

Job ID: 890-3652-1

Project/Site: Kaiser SWD

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-42514/2-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 42596 Prep Batch: 42514 RPD Spike LCSD LCSD %Rec Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Toluene 0.100 0.09288 93 70 - 130 35 mg/Kg 2 Ethylbenzene 0.100 0.08850 mg/Kg 89 70 - 130 2 0.200 0.1984 70 - 130 m-Xylene & p-Xylene mg/Kg 99 35 3

0.1003

mg/Kg

100

70 - 130

0.100

	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

Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 42596 Prep Batch: 42514

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.100	0.08976		mg/Kg		90	70 - 130	
Toluene	<0.00201	U F1	0.100	0.07517		mg/Kg		75	70 - 130	
Ethylbenzene	<0.00201	U F1	0.100	0.05923	F1	mg/Kg		59	70 - 130	
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.1329	F1	mg/Kg		66	70 - 130	
o-Xylene	<0.00201	U F1	0.100	0.06702	F1	mg/Kg		67	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 Prep Type: Total/NA
Analysis Batch: 42596 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

	mod m	OD	
Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

MSD MSD

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-41942/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 42078

MB MB

Analyte Result Qualifier RI MDI 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 12/15/22 15:21 12/17/22 22:54 1 (GRO)-C6-C10

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Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Job ID: 890-3652-1 SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

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
1-Chlorooctane	126		70 - 130	12/15/22 15:21	12/17/22 22:54	1
o-Terphenyl	142	S1+	70 - 130	12/15/22 15:21	12/17/22 22:54	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-41942/2-A **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 42078** Prep Batch: 41942

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 848.4 85 70 - 130 mg/Kg (GRO)-C6-C10 1000 1024 Diesel Range Organics (Over mg/Kg 102 70 - 130 C10-C28)

LCS LCS Qualifier Limits Surrogate %Recovery 1-Chlorooctane 70 - 130 109 118 70 - 130

Analysis Batch: 42078

o-Terphenyl Lab Sample ID: LCSD 880-41942/3-A **Matrix: Solid**

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 41942

	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	2	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	1011		mg/Kg		101	70 - 130	1	20	
C10-C28)										

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 108 70 - 130 o-Terphenyl 118 70 - 130

Lab Sample ID: 890-3644-A-1-E MS

Matrix: Solid

Analysis Batch: 42078

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Cliant	Sample	ın.	Matrix	Snika
Ollelit	Jailible	10.	wau ix	ODING

Prep Type: Total/NA Prep Batch: 41942

	Sample	Sample	Spike	IVIO	IVIO				70 Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<50.0	U	999	954.0		mg/Kg		93	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.0	U	999	1159		mg/Kg		114	70 - 130	
C10-C28)										

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	104		70 - 130

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)

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 Result Qualifier RPD Limit Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics <50.0 U 997 1038 mg/Kg 102 70 - 130 8 20 (GRO)-C6-C10 997 Diesel Range Organics (Over <50.0 U 1144 mg/Kg 113 70 - 130

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

Matrix: Solid

Analysis Batch: 42108

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 42002

мв мв

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 09:55	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		12/16/22 09:37	12/18/22 09:55	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/16/22 09:37	12/18/22 09:55	1

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: L	ab Co	ontrol	Sample
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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)									

LCS LCS

Surrogate	%Recovery Qual	ifier 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 Sample ID	: Lab Control	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)

Lab Sample ID: LCSD 880-42002/3-A

Matrix: Solid

Analysis Batch: 42108

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 42002

LCSD LCSD

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

Analysis Batch: 42108

Matrix: Solid 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

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	72		70 - 130

Lab Sample ID: 890-3638-A-1-E MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Matrix: Solid Analysis Batch: 42108

Prep Batch: 42002 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

103

70 - 130

12

20

997

Diesel Range Organics (Over C10-C28)

MSD MSD %Recovery Qualifier Surrogate Limits

<50.0 U

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

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 Matrix: Solid Prep Type: Soluble**

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

Job ID: 890-3652-1 Client: Tetra Tech, Inc. Project/Site: Kaiser SWD SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-41931/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 42334

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 264.7 mg/Kg 106 90 - 110

Lab Sample ID: 890-3652-1 MS Client Sample ID: BH-210 (11') **Matrix: Solid**

Prep Type: Soluble

Analysis Batch: 42334

Sample Sample Spike MS MS %Rec Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits 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

Sample Sample MSD MSD %Rec RPD 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	

Client: Tetra Tech, Inc.

Job ID: 890-3652-1

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	

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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

Job ID: 890-3652-1 SDG: Lea County NM

Project/Site: Kaiser SWD Client Sample ID: BH-210 (11')

Client: Tetra Tech, Inc.

Lab Sample ID: 890-3652-1

Date Collected: 12/14/22 12:00 Date Received: 12/14/22 12:37 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	42514	12/22/22 12:14	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42596	12/27/22 02:15	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			10.00 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 19:01	SM	EET MID
Soluble	Leach	DI Leach			5 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 21:57	CH	EET MID

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	Type	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	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 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	Туре	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

Job ID: 890-3652-1 SDG: Lea County NM

Client: Tetra Tech, Inc. Project/Site: Kaiser SWD

Lab Sample ID: 890-3652-4

Client Sample ID: SW-76 (0-4.5') 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	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	СН	EET MID

Lab Sample ID: 890-3652-5

Client Sample ID: SW-79 (0-4') 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	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	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 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:

Released to Imaging: 9/1/2023 3:25:35 PM

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Job ID: 890-3652-1

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 his	ay include arialytes for
0 ,	• •	Matrix	Analyte	ay include analytes for
the agency does not of	fer certification.	•	, , ,	ay include analytes for

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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Sample Summary

Client: Tetra Tech, Inc.

Job ID: 890-3652-1

Project/Site: Kaiser SWD

SDG: Lea County NM

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
890-3652-6	SW-83 (0-4')	Solid	12/14/22 12:00	12/14/22 12:37

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Project Location: state)

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Analysis Request of Chain of Custody Record eceiving Laboratory SW-76 (0-4.5') SW-83 (0-4") SW-79 (0-4') SW-75 (4-10') SW-75 (0-4') BH-210 (11') Lea County, NN **Eurofins Xenco** Kaiser SWD Permian Water Solutions Permian Water Solutions - Dusty McInturff fetra Tech, Inc. SAMPLE IDENTIFICATION 14/22 Time: Time ORIGINAL COPY 12/14/2022 12/14/2022 Project #: 12/14/2022 12/14/2022 Received by Sampler Signature 12/14/2022 12/14/2022 eceived by EAR: 2020 DATE 2 SAMPLING Clair.Gonzales@tetratech.com TIME WATER Clair Gonzales MATRIX × × × SOIL 212C-MD-02230 Peyton Oliver 901W Wall Street, Ste 100 Midland, Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946 Date: HCL PRESERVATIVE METHOD HNO₃ × ICE ec/h/lci None 890-3652 Chain of Custody 123 # CONTAINERS FILTERED (Y/N) **BTEX 8021B** BTEX 8260B LAB USE ONLY Sample Temperature Circle) HAND DELIVERED FEDEX UPS R 101 TPH TX1005 (Ext to C35) 0.00 TAM-007 $\times \times$ × X TPH 8015M (GRO - DRO - ORO - MRO) PAH 8270C Circle or Specify Method Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles **ANALYSIS REQUEST** \boxtimes TCLP Semi Volatiles RUSH: Same Day Special Report Limits or TRRP Repor Rush Charges Authorized RCI STANDARD GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 NORM Page PLM (Asbestos) 24 hr ×× $\times \times \times \times$ Chloride Sulfate TDS Chloride 48 hr General Water Chemistry (see attached list) Anion/Cation Balance 72 hr 으 Hold

LAB USE LAB#

Eurofins Carlsbad																					
1089 N Canal St Carlsbad, NM 88220 Phone 575-988-3199 Fax: 575-988-3199	0	Shain o	Chain of Custody Record	lody R	есо	ď						4.9		mine						💸 eurofins	Environment Testing
Client Information (Sub Contract Lab)	Sampler			Lab PM Kramer,	- I	Jessica			- 1			္စ	Carrier Tracking No(s):	racki	ğ V	(s):			® ೧	COC No: 890-1064 1	
	Phone			E-Mail: Jessi	E-Mail: Jessica Kramer@et.eurofinsus com	amer(Det.e	urofir	SUS (ğ	İ	zΩ	State of Origin: New Mexico	Origin	0			İ	고 고	Page Page 1 of 1	
Company Eurofins Environment Testing South Centr					Accreditations Required (See note): NELAP - Texas	tations	Requi	ed (S	ee note	٩		ŀ					l		ο <u>ς</u>	Job #:	
Address 1211 W Florida Ave,	Due Date Requested 12/20/2022	ă					- 1		<u></u>	nalvsis		Requested	į l	-				- 1	╗	Code	- 1
City: Midland	TAT Requested (days):	iys):					_	_		_				ᅴ'	\dashv	\dashv	\dashv	T.D	0 □ >	NaOH	None AsNaO2
State, Zip: TX, 79701																		and the same	п п с	D Nitric Acid P. E NaHSO4	P - Na2O4S Q - Na2SO3
Phone 432-704-5440(Tel)	PO#) 					e 								· 7 · · · <u>D</u>	. O. T.	MeOH Amchlor	S - H2SO4 T TSP Dodecahydrate
Email	WO#:				anigative ergy					hlorid								Green	cossiladlana	ASCORDIC ACID	U - Acetone V MCAA
Project Name Kaiser SWD	Project #: 88001259				Si Seealanas	EX				ACH								Dinashli	and the state of		Trizma
Site:	SSOW#					alc BT	<i>'</i>			D/DI_LI								The second	100	Other:	
			Sample Type	Matrix (w=water	Filtered S m MS/M:	6036FP_C	BTEX_GC	OD_Calc	OD_NM/80	RGFM_280				<u> </u>					Number o		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	G=grab) B	₹.	200000000000000000000000000000000000000	8021	Total_			300_0								40.4	JOLAI	Special Instru	Special Instructions/Note:
	X	X	Preservation Code:	on Code:	$\stackrel{X}{ imes}$					46.				44		-1	إسيب	J	4		
BH-210 (11') (890-3652-1)	12/14/22	12 00 Mountain		Solid		×	×	×	×	×		-						27.500	4		
SW-75 (0-4') (890-3652-2)	12/14/22	12 00 Mountain		Solid		×	×	×	<u> </u>	<u>~</u>				\dashv				a c	#4	Service and the service and th	
SW-75 (4-10') (890-3652-3)	12/14/22	12 00 Mountain		Solid		×	×	×	<u> </u>	<u> </u>				-		\dashv		#Z" TD	4		
SW-76 (0-4 5') (890-3652-4)	12/14/22	12 00 Mountain		Solid		×	×	<u> </u>	×	×			\dashv	\dashv		-		Tai. A		NAMES OF TAXABLE PARTY	
SW-79 (0-4') (890-3652-5)	12/14/22	12 00 Mountain		Solid		×	×	×	×	<u>×</u>		\dashv	\dashv	\dashv					2		
SW-83 (0-4') (890-3652-6)	12/14/22	12 00 Mountain		Solid		×	×	×	×	×			+	+ +	+		+				
									$\perp \perp \downarrow$				++	++	+	_	\dashv		<u> </u>		
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon our 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 Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC.	nt Testing South Centr bove for analysis/tests/ entral LLC attention im	al LLC places /matrix being a /mediately If a	the ownership on alyzed the sar nalyzed the sar life requested acc	of method, analy nples must be a preditations are	te & ac shipped current	credita back t	tion co o the E	mpliar urofin	nce up s Envir	on our ronme Chain	subco	ontrac ting S stody	labor outh C	atorie entra	s. Th	is san labor	iple s atory	hipme or oth	er in	forwarded under chain- structions will be provide Environment Testing S.	-of-custody If the led. Any changes to louth Central LLC.
Possible Hazard Identification Unconfirmed					Sa	Sample Disposal (A	Disp	osal	À	e m	ا گ	ass	esse	9	sam	oles	_ ଞ୍ଚ		nec	fee may be assessed if samples are retained longer than 1 month	onth)
Deliverable Requested I, II III IV, Other (specify)	Primary Deliverable Rank	able Rank 2			Sp	Special Instructions/Q	al Instructions/QC	ction	s/QC	C Requirements	iren	ents	ents	Ş	g			5	1	ACTIVE OF	NOTITION
Empty Kit Relinquished by		Date			Time:	۱ ر				1		>	3	Method of Shipment:	of Sh	pmer	7		ı		
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Relinquisted by	Date/Ilme			Company		Received	ved by					-			ō	Date/Time	ne:			Cc	Company
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Custody Seals Intact. Custody Seal No						Coole	Cooler Temperature(s)	beratu		°C and Other Remarks	Other	Rema	줎								
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Chain of Custody Record

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Environment Testing

State Zip. TX, 79701 SW-79 (0-4') (890-3652-5) Note. Since laboratory accreditations are subject to change Eurofins Environment Testing South Central, LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the aboratory 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 Environment Testing South Central. LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central. LLC SW-83 (0-4') (890-3652-6) SW-76 (0-4 5') (890-3652-4) SW-75 (4-10') (890-3652-3) SW-75 (0-4') (890-3652-2) BH-210 (11') (890-3652-1) Sample Identification - Client ID (Lab ID) Midland Carlsbad, NM 88220 Phone. 575-988-3199 Fax: 575-988-3199 Kaiser SWD mpty Kit Relinquished by Deliverable Requested | II, III, IV Other (specify) 132-704-5440(Tel) 1211 W Florida Ave ossible Hazard Identification Client Information (Sub Contract Lab) elinquished by roject Name: linquished by: Custody Seals Intact. linquished by: urofins Environment Testing South Centr confirmed hipping/Receiving Custody Seal No Project #: 88001259 Date/Time Primary Deliverable Rank ₩ * PO# Due Date Requested 12/20/2022 Phone: Sampler TAT Requested (days): Sample Date 12/14/22 12/14/22 12/14/22 12/14/22 12/14/22 2/14/22 Date Mountain 12 00 Mountain 12 00 Mountain 12 00 Mountain 12 00 Mountain 12 00 Mountain Sample 1200 (C=comp, G=grab) Sample Type Preservation Code: Company Company Company Matrix Solid Solid Solid Solid Solid Solid Lab PM Jessica Kramer@et.eurofinsus.com E-Mail Kramer, Jessica Field Filtered Sample (Yes or No) NELAP - Texas Accreditations Required (See note): Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Cooler Temperature(s) °C and Other Remarks Received by 8021B/6035FP_Calc BTEX × × × × × × × × × × × × Total_BTEX_GCV × × 8015MOD Cald × × × × × × × × × × 8016MOD_NM/8015NM_S_Prep Full TPH Analysis Requested × × × × × 300_ORGFM_28D/DI_LEACH Chloride × State of Origin: New Mexico Carrier Tracking No(s) Method of Shipment Date/Time Date/Time Date/Time 4 Total Number of containers A HCL
B NaOH
C Zn Acetate
D-Nitric Acid
E NaHSOA
F NaCHOH
G Amchor
H Ascorbic Acid
I Ice
J DI Water
K EDTA
L EDA COC No: 890-1064 1 Preservation Codes 890-3652-1 Page 1 of 1 age Special Instructions/Note: M Hexane
N-None
O AsNao2
P Na2O4S
Q Na2SO3
R Na2SC33
R Na2SC33
R Na2SC04
T TSP Dodecahydrate
U Acetone
V MCAA
W pH 4-5
Y Tizma
Z - other (specify) Ver 06/08/202 Company Company Company Months

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	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-3652-1 SDG Number: Lea County NM

List Ossumer Franchisco Midles d

List Source: Eurofins Midland List Creation: 12/15/22 11:29 AM

List Number: 2 Creator: Teel, Brianna

Login Number: 3652

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").

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 258932

CONDITIONS

Operator:	OGRID:
Permian Water Solutions, LLC	373626
PO Box 2106	Action Number:
Midland, TX 79702	258932
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
nvelez	None	9/1/2023