

Volume being pumped through the line base on capacity and time to turn off the pump

SITE INFORMATION

Report Type: Closure Report nAPP2313632890

General Site Information:

Site:	Delek NexGen Lost Tanks Line					
Company:	Solaris Water Midstream, LLC					
Section, Township and Range	Unit L1	Sec. 02	T 22S	R 32E		
Lease Number:						
County:	Lea County					
GPS:	32.42776°			-103.65408°		
Surface Owner:	Private					
Mineral Owner:						
Directions:	From intersections of Red Rd & Mills Ranch Rd, head North on Red Rd and follow for 3.34 miles. Turn right (east) onto lease road, follow for 1.31 miles. Turn right (south) onto lease road, follow for 1.14 miles. Turn right (south) onto lease road and follow for 0.45 miles. Turn left (east) onto lease road and follow for 3.49 miles. Turn left (north) onto lease road and follow for 2.90 miles. Site on west side of lease road.					

Release Data:

Date Released:	5/2/2023
Type Release:	Produced Water
Source of Contamination:	Ruptured line due to vehicle
Fluid Released:	20 bbl
Fluids Recovered:	10 bbl

Official Communication:

Name:	Rob Kirk		Clair Gonzales
Company:	Solaris Water Midstream, LLC		Tetra Tech
Address:	907 Tradewinds Blvd,		901 West Wall Street
	Ste B		Suite 100
City:	Midland, Texas 79706		Midland, Texas
Phone number:	(469) 978-5620		(432) 682-4559
Fax:			
Email:	rob.kirk@ariswater.com		Clair.Gonzales@tetrattech.com

Site Characterization

Depth to Groundwater:	>55' below surface
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	100 mg/kg	100 mg/kg	600 mg/kg



March 12, 2024

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

**RE: Closure Report
Solaris Water Midstream
Delek NexGen Lost Tanks Line
Lea County, New Mexico
nAPP2313632890**

Oil Conservation Division:

Tetra Tech, Inc. (Tetra Tech) was contracted by Solaris Water Midstream, LLC (Solaris) to assess a release that occurred at the Delek NexGen Lost Tanks Line, Unit L1, Section 02, Township 22 South, Range 32 East, Lea County, New Mexico (Site). The spill site coordinates are 32.42776°, -103.65408°. The site location is shown on **Figures 1 and 2**.

Background

According to the State of New Mexico C-141 Initial Report, the release at the Site was caused by a Delek truck driving over the NexGen layflat line, resulting in a ruptured line, causing the release of 20 barrels (bbls) of produced water, impacting an area of 58 feet (ft) in length with a width ranging from 8 ft to 37 ft. Additionally, 10 bbls of produced water were recovered from the release. On March 2, 2023, the release was discovered. On March 18, 2023, the initial C-141 was submitted to the New Mexico Oil Conservation Division (NMOCD). The C-141 is shown in **Appendix A**.

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 lakebeds, sinkholes, playa lakes, springs, wetlands, subsurface mines, private domestic water wells, or floodplains located within the specified distances. However, there is an intermittent watercourse approximately 109 ft from the extent of the release. Additionally, the site is located in a low karst area. The NFHL Map, USGS Mapper, and Karst map are shown in **Appendix B**.

Significant Boundaries

According to Google Earth US Government City Boundaries and US School Districts, the lateral extents of the release were not within an incorporated municipal boundary, 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 two closest water wells within a 2.75-mile radius of the Site. The well reported on the NMOSE Water Rights Reporting System reports a total depth of 840 ft bgs and measured water level of 560 ft bgs and is approximately 0.39 miles of the Site. The well reported on the USGS National Water Information System reports a total depth of 435 ft bgs and measured water level of 382.65 ft bgs and is approximately 2.64 miles of the Site. The groundwater information is shown in **Appendix B**.

Distance from Site	Date of Data	Resource of Information	Depth of Well	Depth to Water
0.39 Miles	11/29/2018	NMOSE	840'	560'
2.64 Miles	02/20/1996	USGS	435'	382.65'

Regulatory

A risk-based evaluation was performed for the site following 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. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the site characterization, the proposed RRAL for TPH is 100 mg/kg (GRO + DRO + ORO). Additionally, based on the site characterization, the proposed RRAL for chlorides is 600 mg/kg.

Site Assessment Activities

Initial Site Assessment Activities

Tetra Tech conducted site assessment activities on June 7, 2023. A total of three (3) auger holes (AH-1 through AH-3) were installed to depths ranging from surface to 4.5 ft bgs, to attempt to assess and vertically delineate the impacted the area. Deeper samples were not collected from auger holes (AH-2 and AH-3) due to dense geological formation. Additionally, a total of four (4) horizontals (H-1 through H-4) were installed to total depths of 0.5 ft bgs, to horizontally delineate the impact. The impact and sample locations are shown on **Figure 3**.

The samples were submitted to Eurofins Laboratories in Midland, Texas and Cardinal Laboratories in Hobbs, New Mexico to be analyzed for TPH by method 8015 modified, BTEX by method 8021B, and Chloride by EPA Method 300.0 or Method SM 4500. The analytical results are summarized in **Table 1** and the analytical laboratory reports are included in **Appendix C**.



Referring to Table 1, auger holes (AH-1, AH-2 and AH-3) indicated chloride concentrations above RRALs with concentrations ranging from 2,440 mg/kg to 4,720 mg/kg at depths ranging from surface to 3.5 ft bgs. None of the auger holes (AH-1 through AH-3) indicated TPH or BTEX concentrations above laboratory detection limits. Additionally, horizontal borings (H-1 through H-4) indicated chloride, benzene, BTEX, and TPH concentrations below RRALs. Vertical delineation of chloride concentrations was not found in the auger (AH-2) due to auger refusal, however, delineation of chloride concentrations was found in auger holes (AH-1 and AH-3) at depths 4.0 ft bgs and 1.0 ft bgs, respectively.

Additional Site Assessment Activities

On January 18, 2024 and January 22, 2024, a total of one (1) delineation trenches (T-1) was installed to a total depth of 13 ft bgs in areas of auger hole (AH-2), where auger refusal was encountered during the initial delineation assessment activities, to attempt to fully delineate the release impacted area. The impact and sample locations are shown on **Figure 3**.

The samples were submitted to Eurofins Laboratories in Midland, Texas and Cardinal Laboratories in Hobbs, New Mexico to be analyzed for TPH by method 8015 modified, BTEX by method 8021B, and Chloride by EPA Method 300.0 or Method SM 4500. The analytical results are summarized in **Table 1** and the analytical laboratory reports are included in **Appendix C**.

Referring to Table 1, delineation trench (T-1) indicated BTEX and TPH concentrations below laboratory detection limits. However, chloride concentrations above RRALs were indicated in trench (T-1), with concentrations ranging from 1,260 mg/kg to 5,150 mg/kg, at depths ranging from surface to 12 ft bgs. Additionally, vertical delineation of chloride concentrations was found at 13 ft bgs.

Remediation Activities

Tetra Tech conducted remediation activities from January 18, 2024, through January 22, 2024. The areas of impact were remediated to depths ranging from 1.0 ft bgs to 13.0 ft bgs. The remediation areas and depths are shown on **Figure 4**.

Following remediation activities, Tetra Tech conducted confirmation sampling by collecting 5-point composite bottom hole samples and 5-point composite sidewall samples every 200 square feet within the remediation. All confirmation samples are collected as a composite 5-point die pattern to ensure a representative sample of sidewalls and floor of the excavation are collected. Additionally, a C-141N was filed for the sampling notification, and is attached along with the initial C-141 in **Appendix A**. A total of six (6) bottom holes (BH-1 through BH-6) were collected and a total of thirteen (13) sidewalls (SW-1 through SW-13) were collected to confirm full removal of the impacted soil. The confirmation soil samples were submitted to the Cardinal Laboratory in Hobbs, New Mexico to be analyzed for TPH by method 8015 modified, BTEX by method 8021B, and Chloride by EPA Method 300.0 and EPA Method 4500. The analytical results are summarized in **Table 2** and the analytical laboratory reports are included in **Appendix C**.



Regarding all final samples collected from the remediation, analytical results indicated benzene, BTEX, TPH, and chloride concentrations were below the RRALs.

Conclusions

Based on the C-141's (nAPP2313632890) and information provided by Solaris, Tetra Tech performed site characterization and groundwater research to determine groundwater depth, proximity from significant water features, and proximity from specified populated entities to determine RRALs and assess the impacted area. Based on the *OCD Guidelines for Remediation of Leaks, Spills, and Releases*, updated August 14, 2018, according to the groundwater data found during research activities, the RRALs of 600 mg/kg for chlorides and 100 mg/kg for TPH were followed. Based on Tetra Tech assessment activities, auger holes (AH-1 through AH-3) indicated chloride concentrations that exceeded RRALs and required remediation.

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 340 cubic yards total of impacted soil was removed and properly disposed of. The area was backfilled with clean to surface grade material. The analytical results indicated all confirmation samples reported below the RRALs for all constituents. Based on this information, it is recommended that the remediated pad at this Site requires no further action. The C-141 is 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

A handwritten signature in blue ink, appearing to read 'Brittany Long'.

Brittany Long,
Project Manager

A handwritten signature in blue ink, appearing to read 'Clair Gonzales'.

Clair Gonzales, P.G.
Senior Project Manager



Figures

NORTH



▲ SITE LOCATION



0 17,000 34,000
Approximate Scale in Feet



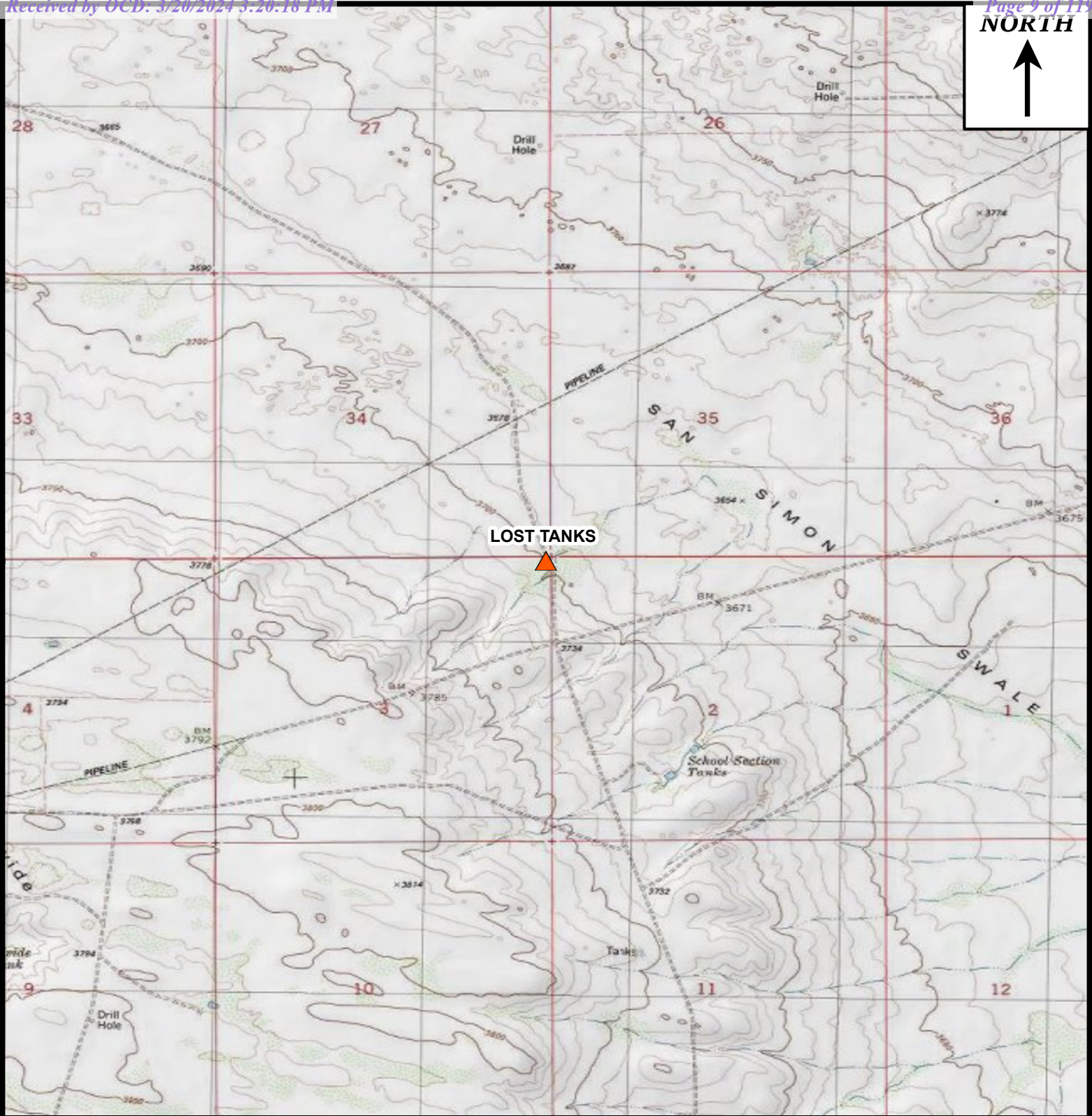
FIGURE 1
SITE OVERVIEW
LOST TANKS
LEA COUNTY, NEW MEXICO
32.427796°, -103.654211°

Project: 212C-MD-03148

Date: 3/5/2024

Name: Figure 1 - Lost Tanks





▲ SITE LOCATION



0 1,750 3,500
Approximate Scale in Feet



FIGURE 2
TOPOGRAPHIC MAP
LOST TANKS
LEA COUNTY, NEW MEXICO
32.427796°, -103.654211°

Project: 212C-MD-03148

Date: 3/5/2024

Name: Figure 2 - Lost Tanks





- ★ RELEASE POINT
- ▽ ELECTRICAL POST LOCATION
- ⊕ CATTLE GUARD LOCATION
- △ TRENCH LOCATION
- ⊙ AUGERHOLE SAMPLE LOCATION
- HORIZONTAL SAMPLE LOCATION
- SURFACE POLY LINE (NOT IN USE)
- OVERHEAD POWER LINES
- SURFACE POLY LINE
- MAIN ROAD
- WATER RELEASE EXTENT
- OLD CATTLE GUARD



0 20 40
Approximate Scale in Feet



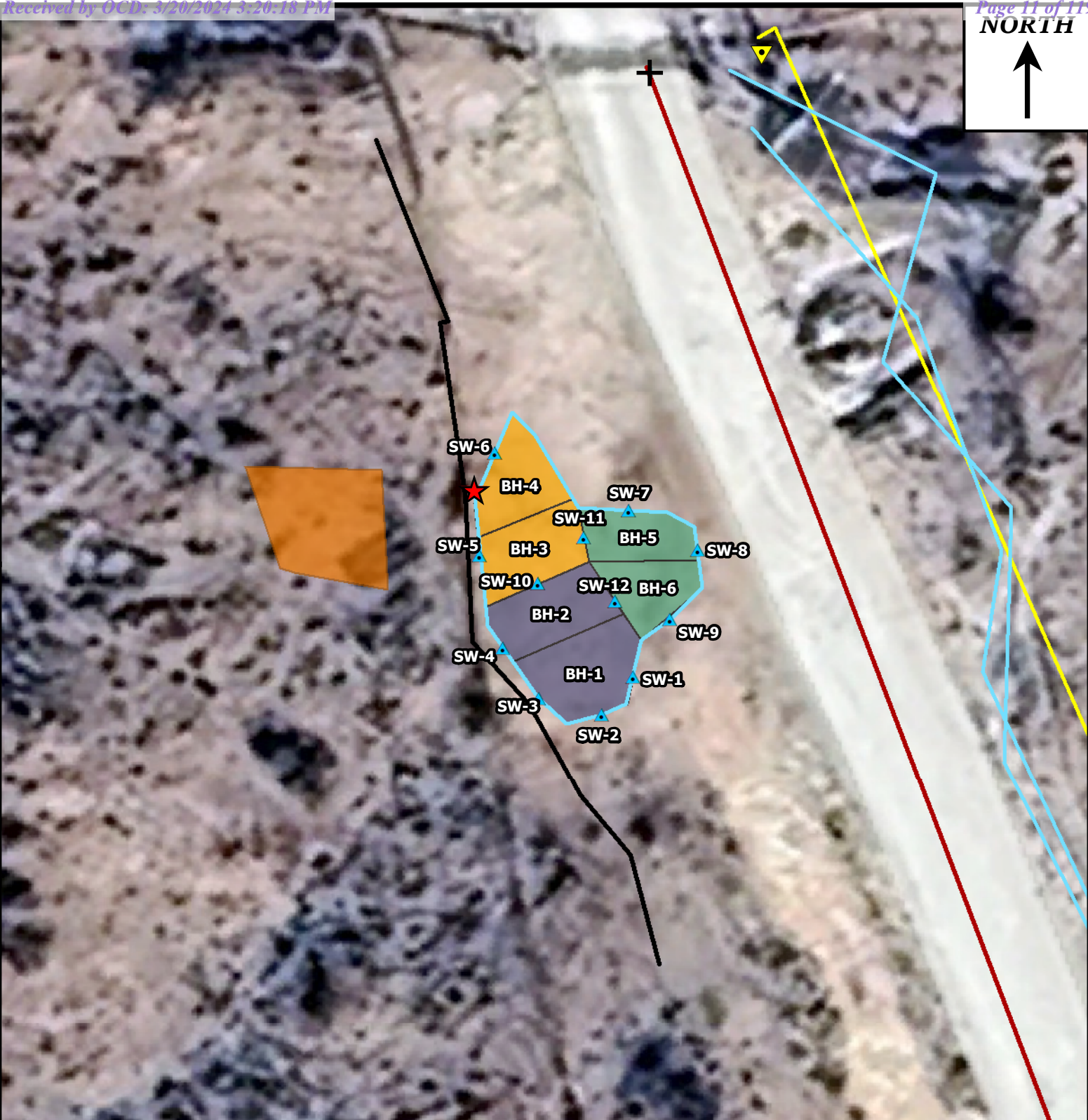
FIGURE 3
SITE ASSESSMENT MAP
LOST TANKS
LEA COUNTY, NEW MEXICO
32.427796°, -103.654211°

Project: 212C-MD-03148

Date: 3/5/2024

Name: Figure 3 - Lost Tanks





- ★ RELEASE POINT
- ▼ ELECTRICAL POST LOCATION
- ✚ CATTLE GUARD LOCATION
- ▲ BOTTOMHOLE SAMPLE LOCATION
- ▲ SIDEWALL SAMPLE LOCATION
- SURFACE POLY LINE (NOT IN USE)
- OVERHEAD POWER LINES
- SURFACE POLY LINE
- MAIN ROAD
- WATER RELEASE EXTENT
- OLD CATTLE GUARD
- 4.0' PROPOSED REMEDIATION
- 1.0' PROPOSED REMEDIATION
- 13' PROPOSED REMEDIATION



0 10 20
Approximate Scale in Feet



FIGURE 4
EXCAVATION AREA AND DEPTH MAP
LOST TANKS
LEA COUNTY, NEW MEXICO
32.427796°, -103.654211°

Project: 212C-MD-03148

Date: 3/6/2024

Name: Figure 4 - Lost Tanks





Tables

Table 1
Solaris
Lost Tanks
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				BTEX (mg/kg)					Chloride (mg/kg)
			In-Situ	Removed	GRO mg/kg	DRO mg/kg	ORO mg/kg	Total mg/kg	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes (mg/Kg)	Total (mg/Kg)	
RRALs					100 mg/kg				10 mg/kg		50 mg/kg			600 mg/kg
Assessment														
AH-1	6/07/2023	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,920
	"	1-1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,560
	"	2-2.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,240
	"	3-3.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,040
	"	4-4.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	288
AH-2	6/07/2023	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,720
	"	1-1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,560
Trench-1	1/18/2024	0-1	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	278
	"	1	X	-	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	40.8
	"	2	X	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	223
	"	3	X	-	<49.6	<49.6	<49.6	<49.6	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	1,340
	"	4	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,430
	"	5	X	-	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	5,150
	"	6	X	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	4,690
	"	7	X	-	<50.4	<50.4	<50.4	<50.4	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	593
	"	8	X	-	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	584
	"	9	X	-	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	161
	1/22/2024	10	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,160
	"	11	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,260
	"	12	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,360
"	13	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112	
AH-3	6/07/2023	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,440
	"	1-1.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
	"	2-2.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
	"	3-3.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
H-1	6/07/2023	0-0.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0

Table 1
Solaris
Lost Tanks
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				BTEX (mg/kg)					Chloride (mg/kg)
			In-Situ	Removed	GRO mg/kg	DRO mg/kg	ORO mg/kg	Total mg/kg	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes (mg/Kg)	Total (mg/Kg)	
RRALs								100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg
H-2	6/07/2023	0-0.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
H-3	6/07/2023	0-0.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
H-4	6/07/2023	0-0.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0

NOTES

RRALs (Recommended Remediation Action Levels) are based on NMOCD (New Mexico Oil Conservation Division) *Guidelines for Remediation of Leaks*,

All screening values and results are presented in milligrams per kilogram (mg/kg)

Bolded cells represent a detected concentration above the respective screening value.

< = analyte was not detected above the respective sample detection limit

ft = feet below ground surface

(-) = not analyzed for respective constituent

TPH = total petroleum hydrocarbons

BTEX = benzene, toluene, ethylbenzene, xylene

 Exceedance

Table 2
Solaris Water Midstream
Delek NexGen Lost Tanks Line
Lea County, New Mexico

Sample ID	Sample Date	Excavtion Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)	
			In-Situ	Removed	GRO	DRO	MRO	Total							
RRALs									100 mg/kg	10 mg/kg	50 mg/kg				600 mg/kg
BH-1	1/22/2024	13.0	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144	
BH-2	1/22/2024	13.0	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	272	
BH-3	1/22/2024	4.0	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0	
BH-4	1/22/2024	4.0	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0	
BH-5	1/22/2024	1.0	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0	
BH-6	1/22/2024	1.0	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0	
SW-1	1/22/2024	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0	
SW-2	1/22/2024	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0	
SW-3	1/22/2024	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144	
SW-4	1/22/2024	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144	
SW-5	1/22/2024	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0	
SW-6	1/22/2024	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0	
SW-7	1/22/2024	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0	
SW-8	1/22/2024	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	288	
SW-9	1/22/2024	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	432	
SW-10	1/22/2024	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0	
SW-11	1/22/2024	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0	
SW-12	1/22/2024	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144	
SW-13	1/22/2024	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0	

NOTES
RRALs (Recommended Remediation Action Levels) are based on NMOCD (New Mexico Oil Conservation Division) *Guidelines for Remediation of Leaks, Spills, and Releases*.
All screening values and results are presented in milligrams per kilogram (mg/kg)
Bolded cells represent a detected concentration above the respective screening value.
< = analyte was not detected above the respective sample detection limit
ft = feet below ground surface
(-) = not analyzed for respective constituent
TPH = total petroleum hydrocarbons
BTEX = benzene, toluene, ethylbenzene, xylene



Photographic Documentation

Solaris Water Midstream
Delek NexGen Lost Tanks
Lea County, New Mexico



View of Remediation Activities – View Southeast



View of Remediation Activities – View North



Appendix A

C-141 Document

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	nAPP2313632890
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Solaris Water, LLC	OGRID 371643
Contact Name Rob Kirk	Contact Telephone O 575- 300-5155 C 469-978-5620
Contact email rob.kirk@ariswater.com	Incident # (assigned by OCD)
Contact mailing address 3305 Boyd Drive, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.42776 Longitude -103.65408
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Delek NexGen Lost Tanks Line	Site Type Layflat Water Line
Date Release Discovered 05/02/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
L 1	02	22S	32E	Lea

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 20 BBLs	Volume Recovered (bbls) 10 BBLs
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release


A Delek pickup truck tried to drive over a NexGen layflat line moving water from the Lost Tanks to the Zeus Pond causing a break in the line.

Incident ID	nAPP2313632890
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
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: <u>Rob Kirk</u>	Title: <u>VP & GM, HSE & Compliance</u>
Signature: <u></u>	Date: <u>05/18/2023</u>
email: <u>rob.kirk@ariswater.com</u>	Telephone: <u>O 575- 300-5155 C 469-978-5620</u>
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>05/19/2023</u>

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

District IV
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 218097

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 907 Tradewinds Blvd, Suite B Midland, TX 79706	OGRID: 371643
	Action Number: 218097
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	5/19/2023

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
District IV
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

QUESTIONS

Action 305363

QUESTIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 907 Tradewinds Blvd, Suite B Midland, TX 79706	OGRID: 371643
	Action Number: 305363
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2313632890
Incident Name	NAPP2313632890 DELEK NEXGEN LOST TANKS LINE @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	DELEK NEXGEN LOST TANKS LINE
Date Release Discovered	05/02/2023
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,165
What is the estimated number of samples that will be gathered	15
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/22/2023
Time sampling will commence	09:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Tetra Tech/432-741-5813
Please provide any information necessary for navigation to sampling site	From intersections of Red Rd & Mills Ranch Rd, head North on Red Rd and follow for 3.34 miles. Turn right (east) onto lease road, follow for 1.31 miles. Turn right (south) onto lease road, follow for 1.14 miles. Turn right (south) onto lease road and follow for 0.45 miles. Turn left (east) onto lease road and follow for 3.49 miles. Turn left (north) onto lease road and follow for 2.90 miles. Site on west side of lease road.

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
District IV
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 305363

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 907 Tradewinds Blvd, Suite B Midland, TX 79706	OGRID: 371643
	Action Number: 305363
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
rkirk	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	1/19/2024




Appendix B

Site Characterization Documents



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	CP 01701 POD1	1	3	35	21S	32E	626652	3589283	
Driller License: 1706		Driller Company:		ELITE DRILLERS CORPORATION					
Driller Name:		WALLACE, BRYCE J.							
Drill Start Date: 10/15/2018		Drill Finish Date:		11/29/2018		Plug Date:			
Log File Date: 12/13/2018		PCW Rev Date:				Source: Artesian			
Pump Type:		Pipe Discharge Size:				Estimated Yield: 30 GPM			
Casing Size: 6.00		Depth Well:		840 feet		Depth Water: 560 feet			
Water Bearing Stratifications:				Top	Bottom	Description			
				560	575	Sandstone/Gravel/Conglomerate			
				750	770	Sandstone/Gravel/Conglomerate			
Casing Perforations:				Top	Bottom				
				460	840				

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.

1/18/24 10:34 AM

POINT OF DIVERSION SUMMARY



[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)


National Water Information System: Web Interface[USGS Water Resources](#)

Data Category:
Groundwater

Geographic Area:
United States

GO

Click to hideNews Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

Groundwater levels for the Nation

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 322314103384301

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 322314103384301 22S.32E.14.32322

Lea County, New Mexico
Latitude 32°23'23", Longitude 103°38'53" NAD27
Land-surface elevation 3,717.00 feet above NGVD29
The depth of the well is 435 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1972-09-13			D 62610		3349.20	NGVD29	1	Z		
1972-09-13			D 62611		3350.88	NAVD88	1	Z		
1972-09-13			D 72019	367.80			1	Z		
1976-12-09			D 62610		3347.16	NGVD29	P	Z		
1976-12-09			D 62611		3348.84	NAVD88	P	Z		
1976-12-09			D 72019	369.84			P	Z		
1981-03-10			D 62610		3342.52	NGVD29	P	Z		
1981-03-10			D 62611		3344.20	NAVD88	P	Z		
1981-03-10			D 72019	374.48			P	Z		
1986-04-10			D 62610		3338.56	NGVD29	1	Z		
1986-04-10			D 62611		3340.24	NAVD88	1	Z		
1986-04-10			D 72019	378.44			1	Z		
1996-02-20			D 62610		3334.35	NGVD29	1	S		
1996-02-20			D 62611		3336.03	NAVD88	1	S		
1996-02-20			D 72019	382.65			1	S		

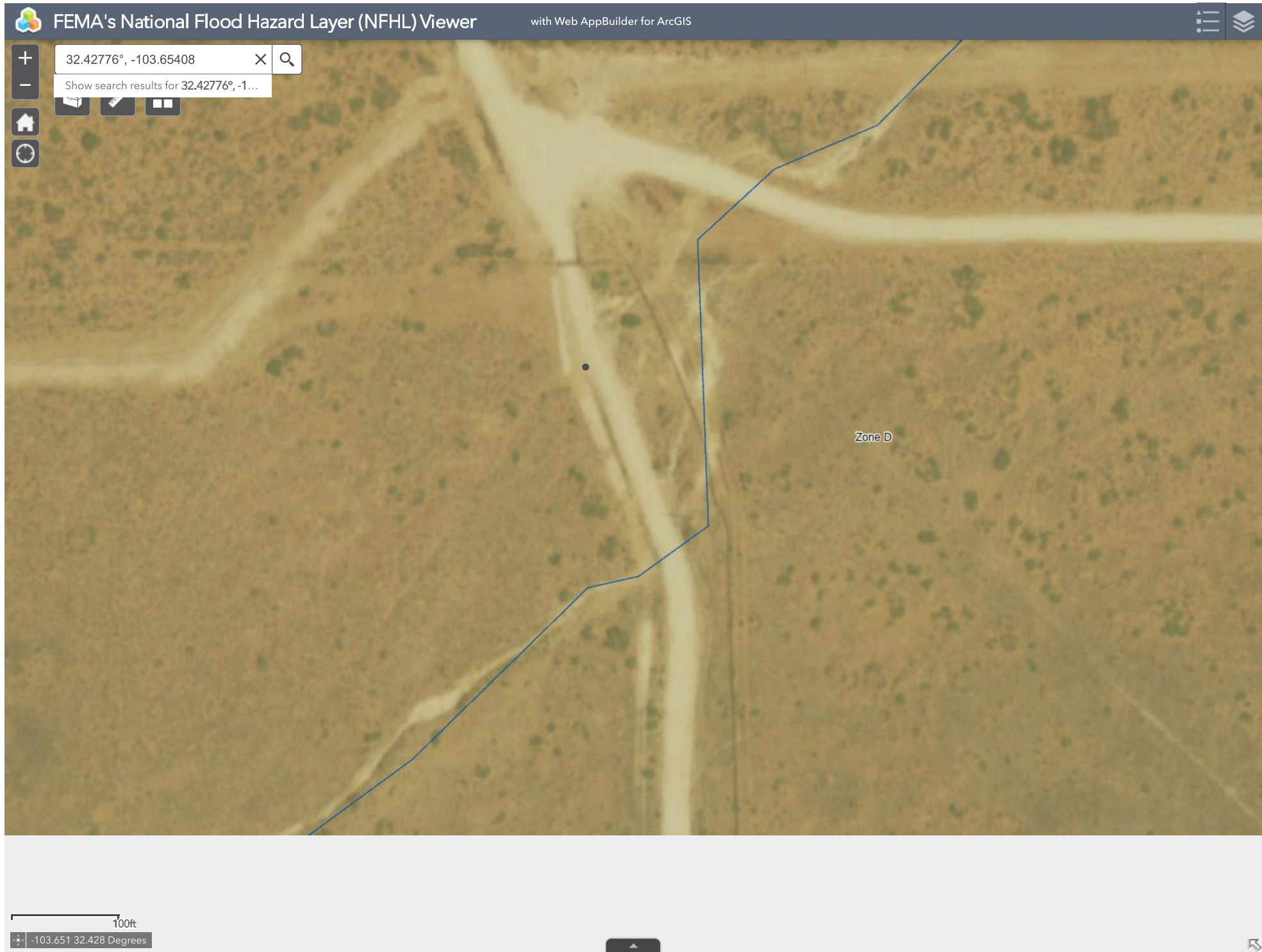
Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for USA: Water Levels
**URL: [USGS Water Data Support Team](https://nwis.waterdata.usgs.gov/nwis/gwlevels?</div><div><div>Page Contact Information: <a href=)
Page Last Modified: 2024-01-18 12:30:59 EST
0.44 0.4 nadww02**









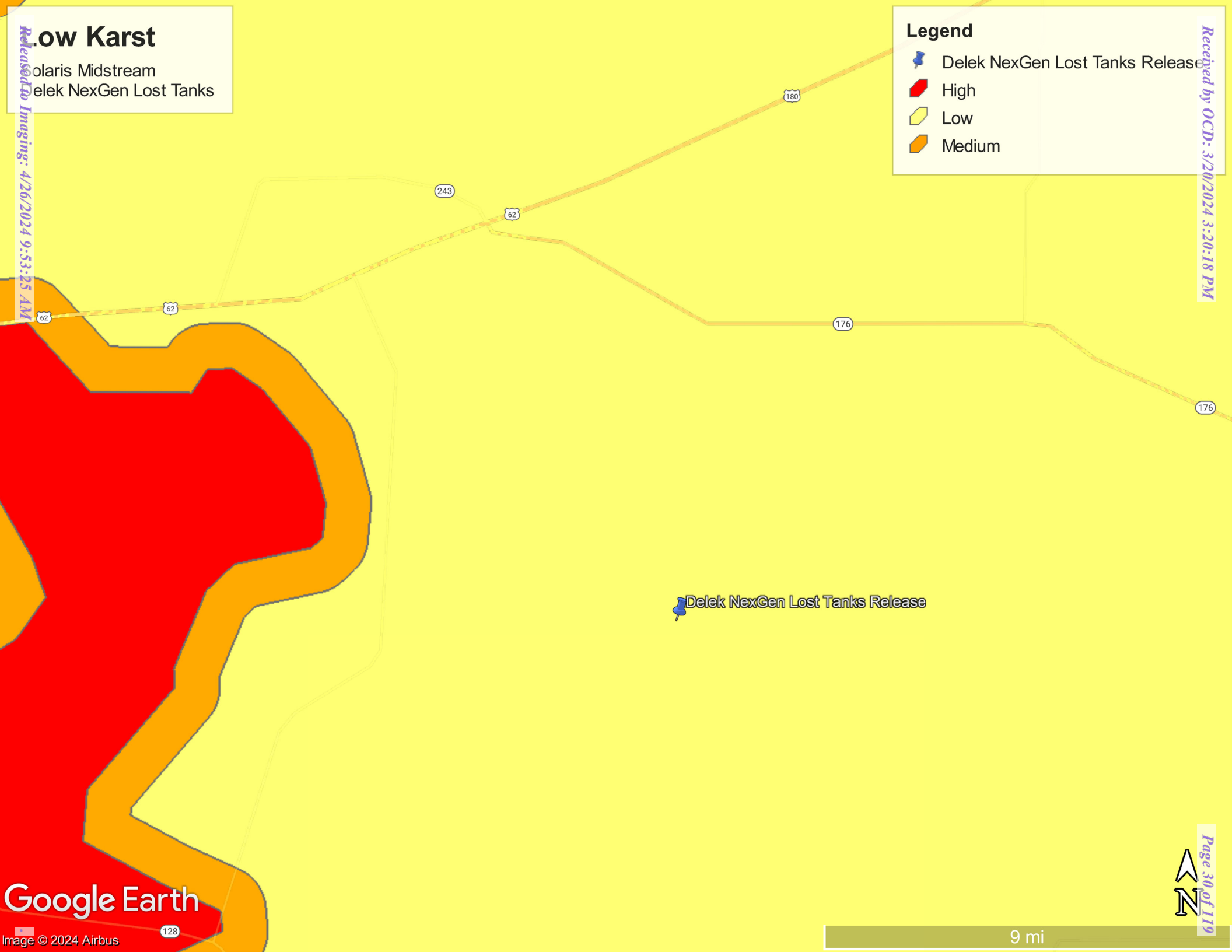


Low Karst
Solaris Midstream
Delek NexGen Lost Tanks

Legend

-  Delek NexGen Lost Tanks Release
-  High
-  Low
-  Medium

Received by OCD: 3/20/2024 3:20:18 PM





Appendix C

Laboratory Reports



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 12, 2023

BRITTANY LONG

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: LOST TANKS

Enclosed are the results of analyses for samples received by the laboratory on 06/07/23 15:49.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 06/07/2023
Reported: 06/12/2023
Project Name: LOST TANKS
Project Number: NONE GIVEN
Project Location: SOLARIS - LEA CO NM

Sampling Date: 06/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: H 1 (0-1') (H232909-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2023	ND	2.32	116	2.00	4.27	
Toluene*	<0.050	0.050	06/09/2023	ND	2.19	109	2.00	2.49	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.20	110	2.00	1.81	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.55	109	6.00	1.90	
Total BTX	<0.300	0.300	06/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/08/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	182	91.1	200	8.88	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	184	92.2	200	7.38	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 95.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 06/07/2023
Reported: 06/12/2023
Project Name: LOST TANKS
Project Number: NONE GIVEN
Project Location: SOLARIS - LEA CO NM

Sampling Date: 06/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: H 2 (0-1') (H232909-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2023	ND	2.32	116	2.00	4.27	
Toluene*	<0.050	0.050	06/09/2023	ND	2.19	109	2.00	2.49	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.20	110	2.00	1.81	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.55	109	6.00	1.90	
Total BTEX	<0.300	0.300	06/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/08/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	204	102	200	5.95	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	162	80.9	200	8.07	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 06/07/2023
Reported: 06/12/2023
Project Name: LOST TANKS
Project Number: NONE GIVEN
Project Location: SOLARIS - LEA CO NM

Sampling Date: 06/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: H 3 (0-1') (H232909-03)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2023	ND	2.32	116	2.00	4.27	
Toluene*	<0.050	0.050	06/09/2023	ND	2.19	109	2.00	2.49	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.20	110	2.00	1.81	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.55	109	6.00	1.90	
Total BTEx	<0.300	0.300	06/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/08/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	204	102	200	5.95	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	162	80.9	200	8.07	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 06/07/2023
Reported: 06/12/2023
Project Name: LOST TANKS
Project Number: NONE GIVEN
Project Location: SOLARIS - LEA CO NM

Sampling Date: 06/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: H 4 (0-1') (H232909-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2023	ND	2.32	116	2.00	4.27	
Toluene*	<0.050	0.050	06/09/2023	ND	2.19	109	2.00	2.49	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.20	110	2.00	1.81	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.55	109	6.00	1.90	
Total BTEx	<0.300	0.300	06/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/08/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	204	102	200	5.95	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	162	80.9	200	8.07	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 96.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 06/07/2023
Reported: 06/12/2023
Project Name: LOST TANKS
Project Number: NONE GIVEN
Project Location: SOLARIS - LEA CO NM

Sampling Date: 06/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: AH 1 (0-1') (H232909-05)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2023	ND	2.32	116	2.00	4.27	
Toluene*	<0.050	0.050	06/09/2023	ND	2.19	109	2.00	2.49	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.20	110	2.00	1.81	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.55	109	6.00	1.90	
Total BTEx	<0.300	0.300	06/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3920	16.0	06/08/2023	ND	432	108	400	3.64	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	204	102	200	5.95	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	162	80.9	200	8.07	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 06/07/2023
Reported: 06/12/2023
Project Name: LOST TANKS
Project Number: NONE GIVEN
Project Location: SOLARIS - LEA CO NM

Sampling Date: 06/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: AH 1 (1-1.5') (H232909-06)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2023	ND	2.32	116	2.00	4.27	
Toluene*	<0.050	0.050	06/09/2023	ND	2.19	109	2.00	2.49	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.20	110	2.00	1.81	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.55	109	6.00	1.90	
Total BTEx	<0.300	0.300	06/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4560	16.0	06/08/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	204	102	200	5.95	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	162	80.9	200	8.07	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 06/07/2023
Reported: 06/12/2023
Project Name: LOST TANKS
Project Number: NONE GIVEN
Project Location: SOLARIS - LEA CO NM

Sampling Date: 06/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: AH 1 (2-2.5') (H232909-07)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2023	ND	2.32	116	2.00	4.27	
Toluene*	<0.050	0.050	06/09/2023	ND	2.19	109	2.00	2.49	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.20	110	2.00	1.81	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.55	109	6.00	1.90	
Total BTEx	<0.300	0.300	06/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4240	16.0	06/08/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	204	102	200	5.95	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	162	80.9	200	8.07	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 06/07/2023
Reported: 06/12/2023
Project Name: LOST TANKS
Project Number: NONE GIVEN
Project Location: SOLARIS - LEA CO NM

Sampling Date: 06/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: AH 1 (3-3.5') (H232909-08)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2023	ND	2.34	117	2.00	3.86		
Toluene*	<0.050	0.050	06/09/2023	ND	2.27	114	2.00	5.41		
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.28	114	2.00	4.21		
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.86	114	6.00	4.69		
Total BTEx	<0.300	0.300	06/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3040	16.0	06/08/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	204	102	200	5.95	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	162	80.9	200	8.07	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 06/07/2023
Reported: 06/12/2023
Project Name: LOST TANKS
Project Number: NONE GIVEN
Project Location: SOLARIS - LEA CO NM

Sampling Date: 06/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: AH 1 (4-4.5') (H232909-09)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2023	ND	2.34	117	2.00	3.86		
Toluene*	<0.050	0.050	06/09/2023	ND	2.27	114	2.00	5.41		
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.28	114	2.00	4.21		
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.86	114	6.00	4.69		
Total BTEx	<0.300	0.300	06/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	06/08/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	204	102	200	5.95	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	162	80.9	200	8.07	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 06/07/2023
Reported: 06/12/2023
Project Name: LOST TANKS
Project Number: NONE GIVEN
Project Location: SOLARIS - LEA CO NM

Sampling Date: 06/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: AH 2 (0-1') (H232909-10)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2023	ND	2.34	117	2.00	3.86	
Toluene*	<0.050	0.050	06/09/2023	ND	2.27	114	2.00	5.41	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.28	114	2.00	4.21	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.86	114	6.00	4.69	
Total BTEX	<0.300	0.300	06/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4720	16.0	06/08/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	192	95.8	200	1.82	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	194	96.8	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 06/07/2023
Reported: 06/12/2023
Project Name: LOST TANKS
Project Number: NONE GIVEN
Project Location: SOLARIS - LEA CO NM

Sampling Date: 06/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: AH 2 (1-1.5') (H232909-11)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2023	ND	2.34	117	2.00	3.86		
Toluene*	<0.050	0.050	06/09/2023	ND	2.27	114	2.00	5.41		
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.28	114	2.00	4.21		
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.86	114	6.00	4.69		
Total BTEx	<0.300	0.300	06/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2560	16.0	06/08/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	192	95.8	200	1.82	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	194	96.8	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 06/07/2023
Reported: 06/12/2023
Project Name: LOST TANKS
Project Number: NONE GIVEN
Project Location: SOLARIS - LEA CO NM

Sampling Date: 06/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: AH 3 (0-1') (H232909-12)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2023	ND	2.34	117	2.00	3.86	
Toluene*	<0.050	0.050	06/09/2023	ND	2.27	114	2.00	5.41	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.28	114	2.00	4.21	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.86	114	6.00	4.69	
Total BTEx	<0.300	0.300	06/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2440	16.0	06/08/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	192	95.8	200	1.82	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	194	96.8	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 06/07/2023
Reported: 06/12/2023
Project Name: LOST TANKS
Project Number: NONE GIVEN
Project Location: SOLARIS - LEA CO NM

Sampling Date: 06/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: AH 3 (1-1.5') (H232909-13)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2023	ND	2.34	117	2.00	3.86		
Toluene*	<0.050	0.050	06/09/2023	ND	2.27	114	2.00	5.41		
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.28	114	2.00	4.21		
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.86	114	6.00	4.69		
Total BTEx	<0.300	0.300	06/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	06/08/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	192	95.8	200	1.82	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	194	96.8	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 132 % 48.2-134

Surrogate: 1-Chlorooctadecane 146 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
 BRITTANY LONG
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 06/07/2023
 Reported: 06/12/2023
 Project Name: LOST TANKS
 Project Number: NONE GIVEN
 Project Location: SOLARIS - LEA CO NM

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: AH 3 (2-2.5') (H232909-14)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2023	ND	2.34	117	2.00	3.86		
Toluene*	<0.050	0.050	06/09/2023	ND	2.27	114	2.00	5.41		
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.28	114	2.00	4.21		
Total Xylenes*	<0.150	0.150	06/09/2023	ND	6.86	114	6.00	4.69		
Total BTEx	<0.300	0.300	06/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	06/08/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	192	95.8	200	1.82	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	194	96.8	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 06/07/2023
Reported: 06/12/2023
Project Name: LOST TANKS
Project Number: NONE GIVEN
Project Location: SOLARIS - LEA CO NM

Sampling Date: 06/07/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: AH 3 (3-3.5') (H232909-15)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/10/2023	ND	2.34	117	2.00	3.86		
Toluene*	<0.050	0.050	06/10/2023	ND	2.27	114	2.00	5.41		
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.28	114	2.00	4.21		
Total Xylenes*	<0.150	0.150	06/10/2023	ND	6.86	114	6.00	4.69		
Total BTEx	<0.300	0.300	06/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/08/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2023	ND	192	95.8	200	1.82	
DRO >C10-C28*	<10.0	10.0	06/08/2023	ND	194	96.8	200	2.51	
EXT DRO >C28-C36	<10.0	10.0	06/08/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:

Solaris

Site Manager:

Brittany Long
432-741-5813

Project Name:

Lost Tanks

Project Location:

Lea County, NM

Project #:

Brittany.Long@tetratech.com

Invoice to:

Rob Kirk

Receiving Laboratory:

Cardinal Labs

Sampler Signature:

Dany & Benitez

Comments:

LAB #

LAB USE ONLY

SAMPLE IDENTIFICATION

LAB #	DATE	TIME	MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)
1	H1	(0-1')	WATER			
2	H2	(0-1')	SOIL			
3	H3	(0-1')				
4	H4	(0-1')				
5	AH1	(0-1')				
6	AH1	(1-1.5')				
7	AH1	(2-2.5')				
8	AH1	(3-3.5')				
9	AH1	(4-4.5')				
10						

SAMPLING

YEAR: 2023

DATE: 6-07-23
TIME: 10:00

MATRIX

WATER
SOIL
HCL
HNO₃
ICE

PRESERVATIVE METHOD

CONTAINERS
FILTERED (Y/N)

ANALYSIS REQUEST

(Circle or Specify Method No.)

- BTEX 8021B BTEX 8260B
- TPH TX1005 (Ext to C35)
- TPH 8015M (GRO - DRO - ORO - MRO)
- PAH 8270C
- Total Metals Ag As Ba Cd Cr Pb Se Hg
- TCLP Metals Ag As Ba Cd Cr Pb Se Hg
- TCLP Volatiles
- TCLP Semi Volatiles
- RCI
- GC/MS Vol. 8260B / 624
- GC/MS Semi. Vol. 8270C/625
- PCB's 8082 / 608
- NORM
- PLM (Asbestos)
- Chloride
- Chloride Sulfate TDS
- General Water Chemistry (see attached list)
- Anion/Cation Balance

Hold

Inquired by:

Dany & Benitez V. 6-07-23 3:33pm

Date: Time:

Inquired by:

Inquired by:

Date: Time:

Received by: Strategically 6-7-23 1549

Date: Time:

Received by:

Date: Time:

LAB USE ONLY

REMARKS: Standard TAT

Sample Temperature

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:

Solaris

Site Manager:

Brittany Long

ANALYSIS REQUEST

(Circle or Specify Method No.)

Project Name:

Lost Tanks

Project #:

432-741-5818
Brittany.Long@tetra.tech.com

Project Location:
(country, state)

Lea County, NM

Invoice to:

Rob Kirk

Receiving Laboratory:

Cardinal Labs

Sampler Signature:

Jorge A. Fernandez

Comments:

LAB #

LAB USE ONLY

SAMPLE IDENTIFICATION

SAMPLING

YEAR: 2023

DATE
TIME

MATRIX

WATER
SOIL
HCL
HNO₃
ICE

PRESERVATIVE METHOD

CONTAINERS
FILTERED (Y/N)

BTEX 8021B BTEX 8260B
TPH TX1005 (Ext to C35)
TPH 8015M (GRO - DRO - ORO - MRO)
PAH 8270C
Total Metals Ag As Ba Cd Cr Pb Se Hg
TCLP Metals Ag As Ba Cd Cr Pb Se Hg
TCLP Volatiles
TCLP Semi Volatiles
RCI
GC/MS Vol. 8260B / 624
GC/MS Semi. Vol. 8270C/625
PCB's 8082 / 608
NORM
PLM (Asbestos)
Chloride
Chloride Sulfate TDS
General Water Chemistry (see attached list)
Anion/Cation Balance

Hold

Inquired by:

Date: Time:

Inquired by:

Date: Time:

Inquired by:

Date: Time:

Inquired by:

Date: Time:

Inquired by:

Date: Time:

Inquired by:

Date: Time:

LAB USE ONLY

REMARKS:

Standard TAT

Sample Temperature

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 25, 2024

BRITTANY LONG

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: LOST TANKS REMEDIATION

Enclosed are the results of analyses for samples received by the laboratory on 01/22/24 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" being more prominent.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	01/22/2024	Sampling Date:	01/22/2024
Reported:	01/25/2024	Sampling Type:	Soil
Project Name:	LOST TANKS REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03148	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- LEA CO NM		

Sample ID: T -1 (10.0') (H240284-01)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/23/2024	ND	2.17	109	2.00	2.39		
Toluene*	<0.050	0.050	01/23/2024	ND	2.15	108	2.00	6.97		
Ethylbenzene*	<0.050	0.050	01/23/2024	ND	2.22	111	2.00	9.34		
Total Xylenes*	<0.150	0.150	01/23/2024	ND	6.60	110	6.00	11.1		
Total BTEx	<0.300	0.300	01/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4160	16.0	01/23/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2024	ND	220	110	200	0.608	
DRO >C10-C28*	<10.0	10.0	01/23/2024	ND	202	101	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	01/23/2024	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	01/22/2024	Sampling Date:	01/22/2024
Reported:	01/25/2024	Sampling Type:	Soil
Project Name:	LOST TANKS REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03148	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- LEA CO NM		

Sample ID: T -1 (11.0') (H240284-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/23/2024	ND	2.17	109	2.00	2.39		
Toluene*	<0.050	0.050	01/23/2024	ND	2.15	108	2.00	6.97		
Ethylbenzene*	<0.050	0.050	01/23/2024	ND	2.22	111	2.00	9.34		
Total Xylenes*	<0.150	0.150	01/23/2024	ND	6.60	110	6.00	11.1		
Total BTEX	<0.300	0.300	01/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1260	16.0	01/23/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2024	ND	220	110	200	0.608	
DRO >C10-C28*	<10.0	10.0	01/23/2024	ND	202	101	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	01/23/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	01/22/2024	Sampling Date:	01/22/2024
Reported:	01/25/2024	Sampling Type:	Soil
Project Name:	LOST TANKS REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03148	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- LEA CO NM		

Sample ID: T -1 (12.0') (H240284-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/23/2024	ND	2.17	109	2.00	2.39		
Toluene*	<0.050	0.050	01/23/2024	ND	2.15	108	2.00	6.97		
Ethylbenzene*	<0.050	0.050	01/23/2024	ND	2.22	111	2.00	9.34		
Total Xylenes*	<0.150	0.150	01/23/2024	ND	6.60	110	6.00	11.1		
Total BTEX	<0.300	0.300	01/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1360	16.0	01/23/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2024	ND	220	110	200	0.608	
DRO >C10-C28*	<10.0	10.0	01/23/2024	ND	202	101	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	01/23/2024	ND					

Surrogate: 1-Chlorooctane 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	01/22/2024	Sampling Date:	01/22/2024
Reported:	01/25/2024	Sampling Type:	Soil
Project Name:	LOST TANKS REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03148	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- LEA CO NM		

Sample ID: T -1 (13.0') (H240284-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/23/2024	ND	2.17	109	2.00	2.39		
Toluene*	<0.050	0.050	01/23/2024	ND	2.15	108	2.00	6.97		
Ethylbenzene*	<0.050	0.050	01/23/2024	ND	2.22	111	2.00	9.34		
Total Xylenes*	<0.150	0.150	01/23/2024	ND	6.60	110	6.00	11.1		
Total BTEX	<0.300	0.300	01/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	01/23/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2024	ND	220	110	200	0.608	
DRO >C10-C28*	<10.0	10.0	01/23/2024	ND	202	101	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	01/23/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client: Solaris

Site Manager: Brittany Long

Project Name: Lost Tanks Remediation

432-741-5813

Location: Lea County, NM

Project #:

212C-MD-03148

Client Contact: Solaris, Attn: Rob Kirk

Laboratory: Cardinal Labs

Sampler Signature: Jorge Fernandez

ANALYSIS REQUEST

(Circle or Specify Method No.)

BTEX 8021B	BTEX 8260B
TPH TX1005 (Ext to C35)	
TPH 8015M (GRO - DRO - ORO - MRO)	
PAH 8270C	
Total Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
RCI	
GC/MS Vol. 8260B / 624	
GC/MS Semi. Vol. 8270C/625	
PCB's 8082 / 608	
NORM	
PLM (Asbestos)	
Chloride	
Chloride Sulfate TDS	
General Water Chemistry (see attached list)	
Anion/Cation Balance	

SAMPLE IDENTIFICATION

4240284

#	DATE	TIME	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)	LAB USE ONLY
			YEAR: 2023	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	
1	T-1 (10.0')			1/22/2024		X			X		X
2	T-1 (11.0')			1/22/2024		X			X		X
3	T-1 (12.0')			1/22/2024		X			X		X
4	T-1 (13.0')			1/22/2024		X			X		X

Received by: *[Signature]* Date: *1-22-24* Time: *1644*

Received by: *[Signature]* Date: *1/22/24* Time: *16:45*

Received by: _____ Date: _____ Time: _____

LAB USE ONLY

Sample Temperature: *0.30c*

REMARKS: *Standard TAT*

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report



Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Brittany Long
Tetra Tech, Inc.
901 W Wall
Ste 100
Midland, Texas 79701

Generated 1/30/2024 3:19:53 PM

JOB DESCRIPTION

Lost Tanks
Eddy Co, NM

JOB NUMBER

880-38171-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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
1/30/2024 3:19:53 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Tetra Tech, Inc.
Project/Site: Lost Tanks

Laboratory Job ID: 880-38171-1
SDG: Eddy Co, NM

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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: Lost Tanks

Job ID: 880-38171-1
SDG: Eddy Co, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
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.
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.
α	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.
Project: Lost Tanks

Job ID: 880-38171-1

Job ID: 880-38171-1

Eurofins Midland

Job Narrative 880-38171-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 1/19/2024 12:30 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 5.1°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: TR-1 (Surface) (880-38171-1), TR-1 (1') (880-38171-2), TR-1 (2') (880-38171-3), TR-1 (3') (880-38171-4), TR-1 (4') (880-38171-5), TR-1 (5') (880-38171-6), TR-1 (6') (880-38171-7), TR-1 (7') (880-38171-8), TR-1 (8') (880-38171-9) and TR-1 (9') (880-38171-10).

GC VOA

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-71534 and analytical batch 880-71765 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-71534 and analytical batch 880-71765 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: TR-1 (3') (880-38171-4). 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 880-71232 and analytical batch 880-71758 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 880-71232 and analytical batch 880-71758 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

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 for preparation batch 880-71323 and analytical batch 880-71391 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Lost Tanks

Job ID: 880-38171-1
SDG: Eddy Co, NM

Client Sample ID: TR-1 (Surface)

Lab Sample ID: 880-38171-1

Date Collected: 01/18/24 09:33

Matrix: Solid

Date Received: 01/19/24 12:30

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		01/24/24 15:28	01/29/24 14:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/24/24 15:28	01/29/24 14:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/24/24 15:28	01/29/24 14:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/24/24 15:28	01/29/24 14:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/24/24 15:28	01/29/24 14:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/24/24 15:28	01/29/24 14:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	01/24/24 15:28	01/29/24 14:31	1
1,4-Difluorobenzene (Surr)	108		70 - 130	01/24/24 15:28	01/29/24 14:31	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			01/29/24 14:31	1

Method: SW846 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			01/28/24 20:36	1

Method: SW846 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		01/19/24 15:04	01/28/24 20:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		01/19/24 15:04	01/28/24 20:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/19/24 15:04	01/28/24 20:36	1
Total TPH	<49.8	U	49.8		mg/Kg		01/19/24 15:04	01/28/24 20:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	01/19/24 15:04	01/28/24 20:36	1
o-Terphenyl	84		70 - 130	01/19/24 15:04	01/28/24 20:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	278		4.98		mg/Kg			01/24/24 22:16	1

Client Sample ID: TR-1 (1')

Lab Sample ID: 880-38171-2

Date Collected: 01/18/24 09:34

Matrix: Solid

Date Received: 01/19/24 12:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/24/24 15:28	01/29/24 14:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/24/24 15:28	01/29/24 14:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/24/24 15:28	01/29/24 14:57	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/24/24 15:28	01/29/24 14:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/24/24 15:28	01/29/24 14:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/24/24 15:28	01/29/24 14:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	01/24/24 15:28	01/29/24 14:57	1
1,4-Difluorobenzene (Surr)	103		70 - 130	01/24/24 15:28	01/29/24 14:57	1

Eurofins Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Lost Tanks

Job ID: 880-38171-1
SDG: Eddy Co, NM

Client Sample ID: TR-1 (1')
Date Collected: 01/18/24 09:34
Date Received: 01/19/24 12:30

Lab Sample ID: 880-38171-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/29/24 14:57	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.5	U	50.5		mg/Kg			01/28/24 21:39	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		01/19/24 15:04	01/28/24 21:39	1	
Diesel Range Organics (Over C10-C28)	<50.5	U *1	50.5		mg/Kg		01/19/24 15:04	01/28/24 21:39	1	
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		01/19/24 15:04	01/28/24 21:39	1	
Total TPH	<50.5	U	50.5		mg/Kg		01/19/24 15:04	01/28/24 21:39	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	78		70 - 130				01/19/24 15:04	01/28/24 21:39	1	
o-Terphenyl	83		70 - 130				01/19/24 15:04	01/28/24 21:39	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	40.8		4.96		mg/Kg			01/24/24 22:23	1	

Client Sample ID: TR-1 (2')
Date Collected: 01/18/24 09:35
Date Received: 01/19/24 12:30

Lab Sample ID: 880-38171-3
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00201	U	0.00201		mg/Kg		01/24/24 15:28	01/29/24 15:23	1	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/24/24 15:28	01/29/24 15:23	1	
Toluene	<0.00201	U	0.00201		mg/Kg		01/24/24 15:28	01/29/24 15:23	1	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/24/24 15:28	01/29/24 15:23	1	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/24/24 15:28	01/29/24 15:23	1	
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/24/24 15:28	01/29/24 15:23	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	119		70 - 130				01/24/24 15:28	01/29/24 15:23	1	
1,4-Difluorobenzene (Surr)	107		70 - 130				01/24/24 15:28	01/29/24 15:23	1	
Method: TAL SOP 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			01/29/24 15:23	1	
Method: SW846 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			01/28/24 22:00	1	
Method: SW846 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		01/19/24 15:04	01/28/24 22:00	1	

Eurofins Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Lost Tanks

Job ID: 880-38171-1
SDG: Eddy Co, NM

Client Sample ID: TR-1 (2')

Lab Sample ID: 880-38171-3

Date Collected: 01/18/24 09:35

Matrix: Solid

Date Received: 01/19/24 12:30

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		01/19/24 15:04	01/28/24 22:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/19/24 15:04	01/28/24 22:00	1
Total TPH	<49.8	U	49.8		mg/Kg		01/19/24 15:04	01/28/24 22:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				01/19/24 15:04	01/28/24 22:00	1
o-Terphenyl	105		70 - 130				01/19/24 15:04	01/28/24 22:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	223		5.01		mg/Kg			01/24/24 22:30	1

Client Sample ID: TR-1 (3')

Lab Sample ID: 880-38171-4

Date Collected: 01/18/24 09:36

Matrix: Solid

Date Received: 01/19/24 12:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/24/24 15:28	01/29/24 15:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/24/24 15:28	01/29/24 15:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/24/24 15:28	01/29/24 15:49	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/24/24 15:28	01/29/24 15:49	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/24/24 15:28	01/29/24 15:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/24/24 15:28	01/29/24 15:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	62	S1-	70 - 130				01/24/24 15:28	01/29/24 15:49	1
1,4-Difluorobenzene (Surr)	92		70 - 130				01/24/24 15:28	01/29/24 15:49	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/29/24 15:49	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			01/28/24 22:21	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		01/19/24 15:04	01/28/24 22:21	1
Diesel Range Organics (Over C10-C28)	<49.6	U *1	49.6		mg/Kg		01/19/24 15:04	01/28/24 22:21	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		01/19/24 15:04	01/28/24 22:21	1
Total TPH	<49.6	U	49.6		mg/Kg		01/19/24 15:04	01/28/24 22:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				01/19/24 15:04	01/28/24 22:21	1
o-Terphenyl	89		70 - 130				01/19/24 15:04	01/28/24 22:21	1

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Lost Tanks

Job ID: 880-38171-1
SDG: Eddy Co, NM

Client Sample ID: TR-1 (3')
Date Collected: 01/18/24 09:36
Date Received: 01/19/24 12:30

Lab Sample ID: 880-38171-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1340		25.1		mg/Kg			01/24/24 22:37	5

Client Sample ID: TR-1 (4')
Date Collected: 01/18/24 09:37
Date Received: 01/19/24 12:30

Lab Sample ID: 880-38171-5
Matrix: Solid

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		01/24/24 15:28	01/29/24 16:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/24/24 15:28	01/29/24 16:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/24/24 15:28	01/29/24 16:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/24/24 15:28	01/29/24 16:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/24/24 15:28	01/29/24 16:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/24/24 15:28	01/29/24 16:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				01/24/24 15:28	01/29/24 16:15	1
1,4-Difluorobenzene (Surr)	116		70 - 130				01/24/24 15:28	01/29/24 16:15	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			01/29/24 16:15	1

Method: SW846 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			01/28/24 22:42	1

Method: SW846 8015B NM - Diesel Range 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		01/19/24 15:04	01/28/24 22:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		01/19/24 15:04	01/28/24 22:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/19/24 15:04	01/28/24 22:42	1
Total TPH	<50.0	U	50.0		mg/Kg		01/19/24 15:04	01/28/24 22:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				01/19/24 15:04	01/28/24 22:42	1
o-Terphenyl	94		70 - 130				01/19/24 15:04	01/28/24 22:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3430		25.3		mg/Kg			01/24/24 22:43	5

Client Sample ID: TR-1 (5')
Date Collected: 01/18/24 10:11
Date Received: 01/19/24 12:30

Lab Sample ID: 880-38171-6
Matrix: Solid

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		01/24/24 15:28	01/29/24 18:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/24/24 15:28	01/29/24 18:00	1

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Lost Tanks

Job ID: 880-38171-1
SDG: Eddy Co, NM

Client Sample ID: TR-1 (5')

Lab Sample ID: 880-38171-6

Date Collected: 01/18/24 10:11

Matrix: Solid

Date Received: 01/19/24 12:30

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U	0.00199		mg/Kg		01/24/24 15:28	01/29/24 18:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/24/24 15:28	01/29/24 18:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/24/24 15:28	01/29/24 18:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/24/24 15:28	01/29/24 18:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				01/24/24 15:28	01/29/24 18:00	1
1,4-Difluorobenzene (Surr)	117		70 - 130				01/24/24 15:28	01/29/24 18:00	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			01/29/24 18:00	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/28/24 23:03	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/19/24 15:04	01/28/24 23:03	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7		mg/Kg		01/19/24 15:04	01/28/24 23:03	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/19/24 15:04	01/28/24 23:03	1
Total TPH	<49.7	U	49.7		mg/Kg		01/19/24 15:04	01/28/24 23:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				01/19/24 15:04	01/28/24 23:03	1
o-Terphenyl	106		70 - 130				01/19/24 15:04	01/28/24 23:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5150	F1	49.6		mg/Kg			01/24/24 18:18	10

Client Sample ID: TR-1 (6')

Lab Sample ID: 880-38171-7

Date Collected: 01/18/24 10:15

Matrix: Solid

Date Received: 01/19/24 12:30

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/24/24 15:28	01/29/24 18:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/24/24 15:28	01/29/24 18:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/24/24 15:28	01/29/24 18:26	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/24/24 15:28	01/29/24 18:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/24/24 15:28	01/29/24 18:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/24/24 15:28	01/29/24 18:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				01/24/24 15:28	01/29/24 18:26	1
1,4-Difluorobenzene (Surr)	115		70 - 130				01/24/24 15:28	01/29/24 18:26	1

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Lost Tanks

Job ID: 880-38171-1
SDG: Eddy Co, NM

Client Sample ID: TR-1 (6')
Date Collected: 01/18/24 10:15
Date Received: 01/19/24 12:30

Lab Sample ID: 880-38171-7
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/29/24 18:26	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.1	U	50.1		mg/Kg			01/28/24 23:24	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		01/19/24 15:04	01/28/24 23:24	1	
Diesel Range Organics (Over C10-C28)	<50.1	U *1	50.1		mg/Kg		01/19/24 15:04	01/28/24 23:24	1	
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		01/19/24 15:04	01/28/24 23:24	1	
Total TPH	<50.1	U	50.1		mg/Kg		01/19/24 15:04	01/28/24 23:24	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	81		70 - 130				01/19/24 15:04	01/28/24 23:24	1	
o-Terphenyl	88		70 - 130				01/19/24 15:04	01/28/24 23:24	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	4690		24.9		mg/Kg			01/24/24 16:09	5	

Client Sample ID: TR-1 (7')
Date Collected: 01/18/24 10:22
Date Received: 01/19/24 12:30

Lab Sample ID: 880-38171-8
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00201	U	0.00201		mg/Kg		01/24/24 15:28	01/29/24 18:52	1	
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/24/24 15:28	01/29/24 18:52	1	
Toluene	<0.00201	U	0.00201		mg/Kg		01/24/24 15:28	01/29/24 18:52	1	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/24/24 15:28	01/29/24 18:52	1	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/24/24 15:28	01/29/24 18:52	1	
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/24/24 15:28	01/29/24 18:52	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	99		70 - 130				01/24/24 15:28	01/29/24 18:52	1	
1,4-Difluorobenzene (Surr)	101		70 - 130				01/24/24 15:28	01/29/24 18:52	1	
Method: TAL SOP 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			01/29/24 18:52	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.4	U	50.4		mg/Kg			01/28/24 23:45	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		01/19/24 15:04	01/28/24 23:45	1	

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Lost Tanks

Job ID: 880-38171-1
SDG: Eddy Co, NM

Client Sample ID: TR-1 (7')
Date Collected: 01/18/24 10:22
Date Received: 01/19/24 12:30

Lab Sample ID: 880-38171-8
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics (Over C10-C28)	<50.4	U *1	50.4		mg/Kg		01/19/24 15:04	01/28/24 23:45	1	
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		01/19/24 15:04	01/28/24 23:45	1	
Total TPH	<50.4	U	50.4		mg/Kg		01/19/24 15:04	01/28/24 23:45	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	85		70 - 130				01/19/24 15:04	01/28/24 23:45	1	
o-Terphenyl	92		70 - 130				01/19/24 15:04	01/28/24 23:45	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	593		4.99		mg/Kg			01/24/24 16:14	1	

Client Sample ID: TR-1 (8')
Date Collected: 01/18/24 10:30
Date Received: 01/19/24 12:30

Lab Sample ID: 880-38171-9
Matrix: Solid

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		01/24/24 15:28	01/29/24 19:18	1	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/24/24 15:28	01/29/24 19:18	1	
Toluene	<0.00199	U	0.00199		mg/Kg		01/24/24 15:28	01/29/24 19:18	1	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/24/24 15:28	01/29/24 19:18	1	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/24/24 15:28	01/29/24 19:18	1	
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/24/24 15:28	01/29/24 19:18	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	101		70 - 130				01/24/24 15:28	01/29/24 19:18	1	
1,4-Difluorobenzene (Surr)	103		70 - 130				01/24/24 15:28	01/29/24 19:18	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			01/29/24 19:18	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.3	U	50.3		mg/Kg			01/29/24 00:06	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		01/19/24 15:04	01/29/24 00:06	1	
Diesel Range Organics (Over C10-C28)	<50.3	U *1	50.3		mg/Kg		01/19/24 15:04	01/29/24 00:06	1	
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		01/19/24 15:04	01/29/24 00:06	1	
Total TPH	<50.3	U	50.3		mg/Kg		01/19/24 15:04	01/29/24 00:06	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	100		70 - 130				01/19/24 15:04	01/29/24 00:06	1	
o-Terphenyl	110		70 - 130				01/19/24 15:04	01/29/24 00:06	1	

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Lost Tanks

Job ID: 880-38171-1
SDG: Eddy Co, NM

Client Sample ID: TR-1 (8')
Date Collected: 01/18/24 10:30
Date Received: 01/19/24 12:30

Lab Sample ID: 880-38171-9
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	584		4.97		mg/Kg			01/24/24 16:20	1

Client Sample ID: TR-1 (9')
Date Collected: 01/18/24 10:41
Date Received: 01/19/24 12:30

Lab Sample ID: 880-38171-10
Matrix: Solid

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		01/24/24 15:28	01/29/24 19:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/24/24 15:28	01/29/24 19:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/24/24 15:28	01/29/24 19:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/24/24 15:28	01/29/24 19:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/24/24 15:28	01/29/24 19:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/24/24 15:28	01/29/24 19:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				01/24/24 15:28	01/29/24 19:45	1
1,4-Difluorobenzene (Surr)	83		70 - 130				01/24/24 15:28	01/29/24 19:45	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			01/29/24 19:45	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/29/24 00:27	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/19/24 15:04	01/29/24 00:27	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7		mg/Kg		01/19/24 15:04	01/29/24 00:27	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/19/24 15:04	01/29/24 00:27	1
Total TPH	<49.7	U	49.7		mg/Kg		01/19/24 15:04	01/29/24 00:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				01/19/24 15:04	01/29/24 00:27	1
o-Terphenyl	86		70 - 130				01/19/24 15:04	01/29/24 00:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	161		4.99		mg/Kg			01/24/24 16:25	1

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Lost Tanks

Job ID: 880-38171-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-38169-A-1-H MS	Matrix Spike	77	84
880-38169-A-1-I MSD	Matrix Spike Duplicate	143 S1+	131 S1+
880-38171-1	TR-1 (Surface)	107	108
880-38171-2	TR-1 (1')	113	103
880-38171-3	TR-1 (2')	119	107
880-38171-4	TR-1 (3')	62 S1-	92
880-38171-5	TR-1 (4')	119	116
880-38171-6	TR-1 (5')	108	117
880-38171-7	TR-1 (6')	114	115
880-38171-8	TR-1 (7')	99	101
880-38171-9	TR-1 (8')	101	103
880-38171-10	TR-1 (9')	104	83
LCS 880-71534/1-A	Lab Control Sample	95	88
LCSD 880-71534/2-A	Lab Control Sample Dup	92	92
MB 880-71534/5-A	Method Blank	59 S1-	104
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)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-38171-1	TR-1 (Surface)	82	84
880-38171-1 MS	TR-1 (Surface)	93	86
880-38171-1 MSD	TR-1 (Surface)	93	86
880-38171-2	TR-1 (1')	78	83
880-38171-3	TR-1 (2')	99	105
880-38171-4	TR-1 (3')	83	89
880-38171-5	TR-1 (4')	90	94
880-38171-6	TR-1 (5')	98	106
880-38171-7	TR-1 (6')	81	88
880-38171-8	TR-1 (7')	85	92
880-38171-9	TR-1 (8')	100	110
880-38171-10	TR-1 (9')	79	86
LCS 880-71232/2-A	Lab Control Sample	91	102
LCSD 880-71232/3-A	Lab Control Sample Dup	70	75
MB 880-71232/1-A	Method Blank	124	136 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Lost Tanks

Job ID: 880-38171-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-71534/5-A							Client Sample ID: Method Blank		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 71765							Prep Batch: 71534		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/24/24 15:28	01/29/24 11:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/24/24 15:28	01/29/24 11:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/24/24 15:28	01/29/24 11:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/24/24 15:28	01/29/24 11:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/24/24 15:28	01/29/24 11:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/24/24 15:28	01/29/24 11:45	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	59	S1-	70 - 130				01/24/24 15:28	01/29/24 11:45	1
1,4-Difluorobenzene (Surr)	104		70 - 130				01/24/24 15:28	01/29/24 11:45	1

Lab Sample ID: LCS 880-71534/1-A							Client Sample ID: Lab Control Sample		
Matrix: Solid							Prep Type: Total/NA		
Analysis Batch: 71765							Prep Batch: 71534		
Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene		0.100	0.08790		mg/Kg		88	70 - 130	
Ethylbenzene		0.100	0.1115		mg/Kg		111	70 - 130	
Toluene		0.100	0.09813		mg/Kg		98	70 - 130	
m-Xylene & p-Xylene		0.200	0.2348		mg/Kg		117	70 - 130	
o-Xylene		0.100	0.1087		mg/Kg		109	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	95		70 - 130						
1,4-Difluorobenzene (Surr)	88		70 - 130						

Lab Sample ID: LCSD 880-71534/2-A							Client Sample ID: Lab Control Sample Dup			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 71765							Prep Batch: 71534			
Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene		0.100	0.09448		mg/Kg		94	70 - 130	7	35
Ethylbenzene		0.100	0.1050		mg/Kg		105	70 - 130	6	35
Toluene		0.100	0.09433		mg/Kg		94	70 - 130	4	35
m-Xylene & p-Xylene		0.200	0.2359		mg/Kg		118	70 - 130	0	35
o-Xylene		0.100	0.1089		mg/Kg		109	70 - 130	0	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
4-Bromofluorobenzene (Surr)	92		70 - 130							
1,4-Difluorobenzene (Surr)	92		70 - 130							

Lab Sample ID: 880-38169-A-1-H MS							Client Sample ID: Matrix Spike			
Matrix: Solid							Prep Type: Total/NA			
Analysis Batch: 71765							Prep Batch: 71534			
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U F2 F1	0.0996	0.07222		mg/Kg		73	70 - 130	
Ethylbenzene	<0.00199	U F2 F1	0.0996	0.08093		mg/Kg		81	70 - 130	

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Lost Tanks

Job ID: 880-38171-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-38169-A-1-H MS
Matrix: Solid
Analysis Batch: 71765

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 71534

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Toluene	<0.00199	U F2 F1	0.0996	0.07307		mg/Kg		73	70 - 130
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.199	0.1763		mg/Kg		89	70 - 130
o-Xylene	<0.00199	U F2 F1	0.0996	0.07639		mg/Kg		77	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	77		70 - 130						
1,4-Difluorobenzene (Surr)	84		70 - 130						

Lab Sample ID: 880-38169-A-1-I MSD
Matrix: Solid
Analysis Batch: 71765

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 71534

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F2 F1	0.0990	0.1374	F1 F2	mg/Kg		139	70 - 130	62	35
Ethylbenzene	<0.00199	U F2 F1	0.0990	0.1453	F1 F2	mg/Kg		147	70 - 130	57	35
Toluene	<0.00199	U F2 F1	0.0990	0.1367	F1 F2	mg/Kg		138	70 - 130	61	35
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.198	0.3254	F1 F2	mg/Kg		164	70 - 130	59	35
o-Xylene	<0.00199	U F2 F1	0.0990	0.1388	F1 F2	mg/Kg		140	70 - 130	58	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130								
1,4-Difluorobenzene (Surr)	131	S1+	70 - 130								

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

Lab Sample ID: MB 880-71232/1-A
Matrix: Solid
Analysis Batch: 71758

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71232

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/19/24 15:04	01/28/24 19:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/19/24 15:04	01/28/24 19:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/19/24 15:04	01/28/24 19:33	1
Total TPH	<50.0	U	50.0		mg/Kg		01/19/24 15:04	01/28/24 19:33	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
1-Chlorooctane	124		70 - 130						
o-Terphenyl	136	S1+	70 - 130						

Lab Sample ID: LCS 880-71232/2-A
Matrix: Solid
Analysis Batch: 71758

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71232

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	890.7		mg/Kg		89	70 - 130

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Lost Tanks

Job ID: 880-38171-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-71232/2-A				Client Sample ID: Lab Control Sample						
Matrix: Solid				Prep Type: Total/NA						
Analysis Batch: 71758				Prep Batch: 71232						
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Diesel Range Organics (Over C10-C28)			1000	999.7		mg/Kg		100	70 - 130	
		LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	91		70 - 130							
o-Terphenyl	102		70 - 130							

Lab Sample ID: LCSD 880-71232/3-A				Client Sample ID: Lab Control Sample Dup						
Matrix: Solid				Prep Type: Total/NA						
Analysis Batch: 71758				Prep Batch: 71232						
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	744.0		mg/Kg		74	70 - 130	18 20
Diesel Range Organics (Over C10-C28)			1000	797.5	*1	mg/Kg		80	70 - 130	23 20
		LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	70		70 - 130							
o-Terphenyl	75		70 - 130							

Lab Sample ID: 880-38171-1 MS					Client Sample ID: TR-1 (Surface)						
Matrix: Solid					Prep Type: Total/NA						
Analysis Batch: 71758					Prep Batch: 71232						
Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec		
	Result	Qualifier	Added	Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1010	807.8		mg/Kg		76	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U *1	1010	843.2		mg/Kg		84	70 - 130		

Lab Sample ID: 880-38171-1 MSD				Client Sample ID: TR-1 (Surface)						
Matrix: Solid				Prep Type: Total/NA						
Analysis Batch: 71758				Prep Batch: 71232						
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1010	939.6		mg/Kg		90	70 - 130	15 20
Diesel Range Organics (Over C10-C28)	<49.8	U *1	1010	858.2		mg/Kg		85	70 - 130	2 20
		MSD	MSD							
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	93		70 - 130							
o-Terphenyl	86		70 - 130							

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Lost Tanks

Job ID: 880-38171-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71320/1-A

Matrix: Solid

Analysis Batch: 71390

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/24/24 18:20	1

Lab Sample ID: LCS 880-71320/2-A

Matrix: Solid

Analysis Batch: 71390

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	274.6		mg/Kg		110	90 - 110

Lab Sample ID: LCSD 880-71320/3-A

Matrix: Solid

Analysis Batch: 71390

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	268.9		mg/Kg		108	90 - 110	2	20

Lab Sample ID: 880-38169-A-1-B MS

Matrix: Solid

Analysis Batch: 71390

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	34.1		251	301.9		mg/Kg		107	90 - 110

Lab Sample ID: 880-38169-A-1-C MSD

Matrix: Solid

Analysis Batch: 71390

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	34.1		251	303.1		mg/Kg		107	90 - 110	0	20

Lab Sample ID: MB 880-71323/1-A

Matrix: Solid

Analysis Batch: 71391

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/24/24 15:18	1

Lab Sample ID: LCS 880-71323/2-A

Matrix: Solid

Analysis Batch: 71391

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	244.0		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-71323/3-A

Matrix: Solid

Analysis Batch: 71391

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	242.5		mg/Kg		97	90 - 110	1	20

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Lost Tanks

Job ID: 880-38171-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-38171-6 MS											Client Sample ID: TR-1 (5')		
Matrix: Solid											Prep Type: Soluble		
Analysis Batch: 71391													
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits				
Chloride	5150	F1	2480	8293	F1	mg/Kg		127	90 - 110				

Lab Sample ID: 880-38171-6 MSD											Client Sample ID: TR-1 (5')		
Matrix: Solid											Prep Type: Soluble		
Analysis Batch: 71391													
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD	RPD Limit	
Chloride	5150	F1	2480	8261	F1	mg/Kg		125	90 - 110		0	20	

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Lost Tanks

Job ID: 880-38171-1
SDG: Eddy Co, NM

GC VOA

Prep Batch: 71534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38171-1	TR-1 (Surface)	Total/NA	Solid	5035	
880-38171-2	TR-1 (1')	Total/NA	Solid	5035	
880-38171-3	TR-1 (2')	Total/NA	Solid	5035	
880-38171-4	TR-1 (3')	Total/NA	Solid	5035	
880-38171-5	TR-1 (4')	Total/NA	Solid	5035	
880-38171-6	TR-1 (5')	Total/NA	Solid	5035	
880-38171-7	TR-1 (6')	Total/NA	Solid	5035	
880-38171-8	TR-1 (7')	Total/NA	Solid	5035	
880-38171-9	TR-1 (8')	Total/NA	Solid	5035	
880-38171-10	TR-1 (9')	Total/NA	Solid	5035	
MB 880-71534/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-71534/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-71534/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-38169-A-1-H MS	Matrix Spike	Total/NA	Solid	5035	
880-38169-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 71765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38171-1	TR-1 (Surface)	Total/NA	Solid	8021B	71534
880-38171-2	TR-1 (1')	Total/NA	Solid	8021B	71534
880-38171-3	TR-1 (2')	Total/NA	Solid	8021B	71534
880-38171-4	TR-1 (3')	Total/NA	Solid	8021B	71534
880-38171-5	TR-1 (4')	Total/NA	Solid	8021B	71534
880-38171-6	TR-1 (5')	Total/NA	Solid	8021B	71534
880-38171-7	TR-1 (6')	Total/NA	Solid	8021B	71534
880-38171-8	TR-1 (7')	Total/NA	Solid	8021B	71534
880-38171-9	TR-1 (8')	Total/NA	Solid	8021B	71534
880-38171-10	TR-1 (9')	Total/NA	Solid	8021B	71534
MB 880-71534/5-A	Method Blank	Total/NA	Solid	8021B	71534
LCS 880-71534/1-A	Lab Control Sample	Total/NA	Solid	8021B	71534
LCSD 880-71534/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71534
880-38169-A-1-H MS	Matrix Spike	Total/NA	Solid	8021B	71534
880-38169-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	71534

Analysis Batch: 71902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38171-1	TR-1 (Surface)	Total/NA	Solid	Total BTEX	
880-38171-2	TR-1 (1')	Total/NA	Solid	Total BTEX	
880-38171-3	TR-1 (2')	Total/NA	Solid	Total BTEX	
880-38171-4	TR-1 (3')	Total/NA	Solid	Total BTEX	
880-38171-5	TR-1 (4')	Total/NA	Solid	Total BTEX	
880-38171-6	TR-1 (5')	Total/NA	Solid	Total BTEX	
880-38171-7	TR-1 (6')	Total/NA	Solid	Total BTEX	
880-38171-8	TR-1 (7')	Total/NA	Solid	Total BTEX	
880-38171-9	TR-1 (8')	Total/NA	Solid	Total BTEX	
880-38171-10	TR-1 (9')	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Lost Tanks

Job ID: 880-38171-1
SDG: Eddy Co, NM

GC Semi VOA

Prep Batch: 71232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38171-1	TR-1 (Surface)	Total/NA	Solid	8015NM Prep	
880-38171-2	TR-1 (1')	Total/NA	Solid	8015NM Prep	
880-38171-3	TR-1 (2')	Total/NA	Solid	8015NM Prep	
880-38171-4	TR-1 (3')	Total/NA	Solid	8015NM Prep	
880-38171-5	TR-1 (4')	Total/NA	Solid	8015NM Prep	
880-38171-6	TR-1 (5')	Total/NA	Solid	8015NM Prep	
880-38171-7	TR-1 (6')	Total/NA	Solid	8015NM Prep	
880-38171-8	TR-1 (7')	Total/NA	Solid	8015NM Prep	
880-38171-9	TR-1 (8')	Total/NA	Solid	8015NM Prep	
880-38171-10	TR-1 (9')	Total/NA	Solid	8015NM Prep	
MB 880-71232/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71232/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71232/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-38171-1 MS	TR-1 (Surface)	Total/NA	Solid	8015NM Prep	
880-38171-1 MSD	TR-1 (Surface)	Total/NA	Solid	8015NM Prep	

Analysis Batch: 71758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38171-1	TR-1 (Surface)	Total/NA	Solid	8015B NM	71232
880-38171-2	TR-1 (1')	Total/NA	Solid	8015B NM	71232
880-38171-3	TR-1 (2')	Total/NA	Solid	8015B NM	71232
880-38171-4	TR-1 (3')	Total/NA	Solid	8015B NM	71232
880-38171-5	TR-1 (4')	Total/NA	Solid	8015B NM	71232
880-38171-6	TR-1 (5')	Total/NA	Solid	8015B NM	71232
880-38171-7	TR-1 (6')	Total/NA	Solid	8015B NM	71232
880-38171-8	TR-1 (7')	Total/NA	Solid	8015B NM	71232
880-38171-9	TR-1 (8')	Total/NA	Solid	8015B NM	71232
880-38171-10	TR-1 (9')	Total/NA	Solid	8015B NM	71232
MB 880-71232/1-A	Method Blank	Total/NA	Solid	8015B NM	71232
LCS 880-71232/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71232
LCSD 880-71232/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71232
880-38171-1 MS	TR-1 (Surface)	Total/NA	Solid	8015B NM	71232
880-38171-1 MSD	TR-1 (Surface)	Total/NA	Solid	8015B NM	71232

Analysis Batch: 71896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38171-1	TR-1 (Surface)	Total/NA	Solid	8015 NM	
880-38171-2	TR-1 (1')	Total/NA	Solid	8015 NM	
880-38171-3	TR-1 (2')	Total/NA	Solid	8015 NM	
880-38171-4	TR-1 (3')	Total/NA	Solid	8015 NM	
880-38171-5	TR-1 (4')	Total/NA	Solid	8015 NM	
880-38171-6	TR-1 (5')	Total/NA	Solid	8015 NM	
880-38171-7	TR-1 (6')	Total/NA	Solid	8015 NM	
880-38171-8	TR-1 (7')	Total/NA	Solid	8015 NM	
880-38171-9	TR-1 (8')	Total/NA	Solid	8015 NM	
880-38171-10	TR-1 (9')	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Lost Tanks

Job ID: 880-38171-1
SDG: Eddy Co, NM

HPLC/IC

Leach Batch: 71320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38171-1	TR-1 (Surface)	Soluble	Solid	DI Leach	
880-38171-2	TR-1 (1')	Soluble	Solid	DI Leach	
880-38171-3	TR-1 (2')	Soluble	Solid	DI Leach	
880-38171-4	TR-1 (3')	Soluble	Solid	DI Leach	
880-38171-5	TR-1 (4')	Soluble	Solid	DI Leach	
MB 880-71320/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71320/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71320/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-38169-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-38169-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 71323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38171-6	TR-1 (5')	Soluble	Solid	DI Leach	
880-38171-7	TR-1 (6')	Soluble	Solid	DI Leach	
880-38171-8	TR-1 (7')	Soluble	Solid	DI Leach	
880-38171-9	TR-1 (8')	Soluble	Solid	DI Leach	
880-38171-10	TR-1 (9')	Soluble	Solid	DI Leach	
MB 880-71323/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71323/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71323/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-38171-6 MS	TR-1 (5')	Soluble	Solid	DI Leach	
880-38171-6 MSD	TR-1 (5')	Soluble	Solid	DI Leach	

Analysis Batch: 71390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38171-1	TR-1 (Surface)	Soluble	Solid	300.0	71320
880-38171-2	TR-1 (1')	Soluble	Solid	300.0	71320
880-38171-3	TR-1 (2')	Soluble	Solid	300.0	71320
880-38171-4	TR-1 (3')	Soluble	Solid	300.0	71320
880-38171-5	TR-1 (4')	Soluble	Solid	300.0	71320
MB 880-71320/1-A	Method Blank	Soluble	Solid	300.0	71320
LCS 880-71320/2-A	Lab Control Sample	Soluble	Solid	300.0	71320
LCSD 880-71320/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71320
880-38169-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	71320
880-38169-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	71320

Analysis Batch: 71391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38171-6	TR-1 (5')	Soluble	Solid	300.0	71323
880-38171-7	TR-1 (6')	Soluble	Solid	300.0	71323
880-38171-8	TR-1 (7')	Soluble	Solid	300.0	71323
880-38171-9	TR-1 (8')	Soluble	Solid	300.0	71323
880-38171-10	TR-1 (9')	Soluble	Solid	300.0	71323
MB 880-71323/1-A	Method Blank	Soluble	Solid	300.0	71323
LCS 880-71323/2-A	Lab Control Sample	Soluble	Solid	300.0	71323
LCSD 880-71323/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71323
880-38171-6 MS	TR-1 (5')	Soluble	Solid	300.0	71323
880-38171-6 MSD	TR-1 (5')	Soluble	Solid	300.0	71323

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Lost Tanks

Job ID: 880-38171-1
SDG: Eddy Co, NM

Client Sample ID: TR-1 (Surface)
Date Collected: 01/18/24 09:33
Date Received: 01/19/24 12:30

Lab Sample ID: 880-38171-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	71534	01/24/24 15:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71765	01/29/24 14:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71902	01/29/24 14:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			71896	01/28/24 20:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	71232	01/19/24 15:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71758	01/28/24 20:36	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	71320	01/22/24 11:14	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71390	01/24/24 22:16	CH	EET MID

Client Sample ID: TR-1 (1')
Date Collected: 01/18/24 09:34
Date Received: 01/19/24 12:30

Lab Sample ID: 880-38171-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	71534	01/24/24 15:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71765	01/29/24 14:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71902	01/29/24 14:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			71896	01/28/24 21:39	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	71232	01/19/24 15:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71758	01/28/24 21:39	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	71320	01/22/24 11:14	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71390	01/24/24 22:23	CH	EET MID

Client Sample ID: TR-1 (2')
Date Collected: 01/18/24 09:35
Date Received: 01/19/24 12:30

Lab Sample ID: 880-38171-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	71534	01/24/24 15:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71765	01/29/24 15:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71902	01/29/24 15:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			71896	01/28/24 22:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	71232	01/19/24 15:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71758	01/28/24 22:00	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	71320	01/22/24 11:14	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71390	01/24/24 22:30	CH	EET MID

Client Sample ID: TR-1 (3')
Date Collected: 01/18/24 09:36
Date Received: 01/19/24 12:30

Lab Sample ID: 880-38171-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	71534	01/24/24 15:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71765	01/29/24 15:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71902	01/29/24 15:49	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Lost Tanks

Job ID: 880-38171-1
SDG: Eddy Co, NM

Client Sample ID: TR-1 (3')
Date Collected: 01/18/24 09:36
Date Received: 01/19/24 12:30

Lab Sample ID: 880-38171-4
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	8015 NM		1			71896	01/28/24 22:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	71232	01/19/24 15:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71758	01/28/24 22:21	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	71320	01/22/24 11:14	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	71390	01/24/24 22:37	CH	EET MID

Client Sample ID: TR-1 (4')
Date Collected: 01/18/24 09:37
Date Received: 01/19/24 12:30

Lab Sample ID: 880-38171-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	71534	01/24/24 15:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71765	01/29/24 16:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71902	01/29/24 16:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			71896	01/28/24 22:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	71232	01/19/24 15:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71758	01/28/24 22:42	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	71320	01/22/24 11:14	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	71390	01/24/24 22:43	CH	EET MID

Client Sample ID: TR-1 (5')
Date Collected: 01/18/24 10:11
Date Received: 01/19/24 12:30

Lab Sample ID: 880-38171-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	71534	01/24/24 15:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71765	01/29/24 18:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71902	01/29/24 18:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			71896	01/28/24 23:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	71232	01/19/24 15:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71758	01/28/24 23:03	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	71323	01/22/24 11:56	SA	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	71391	01/24/24 18:18	SMC	EET MID

Client Sample ID: TR-1 (6')
Date Collected: 01/18/24 10:15
Date Received: 01/19/24 12:30

Lab Sample ID: 880-38171-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	71534	01/24/24 15:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71765	01/29/24 18:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71902	01/29/24 18:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			71896	01/28/24 23:24	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	71232	01/19/24 15:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71758	01/28/24 23:24	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Lost Tanks

Job ID: 880-38171-1
SDG: Eddy Co, NM

Client Sample ID: TR-1 (6')
Date Collected: 01/18/24 10:15
Date Received: 01/19/24 12:30

Lab Sample ID: 880-38171-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	71323	01/22/24 11:56	SA	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	71391	01/24/24 16:09	SMC	EET MID

Client Sample ID: TR-1 (7')
Date Collected: 01/18/24 10:22
Date Received: 01/19/24 12:30

Lab Sample ID: 880-38171-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	71534	01/24/24 15:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71765	01/29/24 18:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71902	01/29/24 18:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			71896	01/28/24 23:45	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	71232	01/19/24 15:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71758	01/28/24 23:45	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	71323	01/22/24 11:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71391	01/24/24 16:14	SMC	EET MID

Client Sample ID: TR-1 (8')
Date Collected: 01/18/24 10:30
Date Received: 01/19/24 12:30

Lab Sample ID: 880-38171-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	71534	01/24/24 15:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71765	01/29/24 19:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71902	01/29/24 19:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			71896	01/29/24 00:06	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	71232	01/19/24 15:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71758	01/29/24 00:06	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	71323	01/22/24 11:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71391	01/24/24 16:20	SMC	EET MID

Client Sample ID: TR-1 (9')
Date Collected: 01/18/24 10:41
Date Received: 01/19/24 12:30

Lab Sample ID: 880-38171-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	71534	01/24/24 15:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71765	01/29/24 19:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			71902	01/29/24 19:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			71896	01/29/24 00:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	71232	01/19/24 15:04	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71758	01/29/24 00:27	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	71323	01/22/24 11:56	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	71391	01/24/24 16:25	SMC	EET MID

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Lost Tanks

Job ID: 880-38171-1
SDG: Eddy Co, NM

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.
Project/Site: Lost Tanks

Job ID: 880-38171-1
SDG: Eddy Co, 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	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Tetra Tech, Inc.
Project/Site: Lost Tanks

Job ID: 880-38171-1
SDG: Eddy Co, 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	EPA	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

EPA = US Environmental Protection Agency

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: Lost Tanks

Job ID: 880-38171-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-38171-1	TR-1 (Surface)	Solid	01/18/24 09:33	01/19/24 12:30
880-38171-2	TR-1 (1')	Solid	01/18/24 09:34	01/19/24 12:30
880-38171-3	TR-1 (2')	Solid	01/18/24 09:35	01/19/24 12:30
880-38171-4	TR-1 (3')	Solid	01/18/24 09:36	01/19/24 12:30
880-38171-5	TR-1 (4')	Solid	01/18/24 09:37	01/19/24 12:30
880-38171-6	TR-1 (5')	Solid	01/18/24 10:11	01/19/24 12:30
880-38171-7	TR-1 (6')	Solid	01/18/24 10:15	01/19/24 12:30
880-38171-8	TR-1 (7')	Solid	01/18/24 10:22	01/19/24 12:30
880-38171-9	TR-1 (8')	Solid	01/18/24 10:30	01/19/24 12:30
880-38171-10	TR-1 (9')	Solid	01/18/24 10:41	01/19/24 12:30

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

880-38171 Chain of Custody



1/30/2024

Client Name		Solaris		Site Manager		Brittany Long	
Project Name		Lost Tanks		Contact Info		brittany.long@tetratech.com	
Project Location (county, state)		Eddy Co, NM		Project #		212C-MD-03148	
Invoice to		Solaris ATTN Rob Kirk					
Receiving Laboratory		Eurofins Xenco Laboratories		Sampler Signature		Ryan Livingston	
Comments							

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	LAB USE ONLY	REMARKS
		YEAR: 2024	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE				
	TR-1 (Surface)		1/18/2024	0933	X		X				1		
	TR-1 (1')		1/18/2024	0934	X		X				1		
	TR-1 (2')		1/18/2024	0935	X		X				1		
	TR-1 (3')		1/18/2024	0936	X		X				1		
	TR-1 (4')		1/18/2024	0937	X		X				1		
	TR-1 (5')		1/18/2024	1011	X		X				1		
	TR-1 (6')		1/18/2024	1015	X		X				1		
	TR-1 (7')		1/18/2024	1022	X		X				1		
	TR-1 (8')		1/18/2024	1030	X		X				1		
	TR-1 (9')		1/18/2024	1041	X		X				1		

Relinquished by	Date	Time	Received by	Date	Time
	1-19-24	12:30 PM		1/19/24	12:30
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by	Date	Time

LAB USE ONLY	REMARKS
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> RUSH Same Day 24 hr 48 hr 72 hr <input type="checkbox"/> Rush Charges Authorized <input type="checkbox"/> Special Report Limits or TRRP Report	

(Circle or Specify Method No.)

ANALYSIS REQUEST

 BTEX 8021B
 TPH TX1005 (Ext to C35)
 TPH 8015M (GRO - DRO - ORO)
 PAH 8270C
 Total Metals Ag As Ba Cd Cr Pb Se Hg
 TCLP Metals Ag As Ba Cd Cr Pb Se Hg
 TCLP Volatiles
 TCLP Semi Volatiles
 RCI
 GC/MS Vol 8260B / 624
 GC/MS Semi Vol 8270C/625
 PCB s 8082 / 608
 NORM
 PLM (Asbestos)
 Chloride 300 0
 Chloride Sulfate TDS
 General Water Chemistry (see attached list)
 Anion/Cation Balance
 Asbestos

ORIGINAL COPY

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 880-38171-1

SDG Number: Eddy Co, NM

Login Number: 38171

List Source: Eurofins Midland

List Number: 1

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 25, 2024

BRITTANY LONG

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: LOST TANKS REMEDIATION

Enclosed are the results of analyses for samples received by the laboratory on 01/22/24 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Coley D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	01/22/2024	Sampling Date:	01/22/2024
Reported:	01/25/2024	Sampling Type:	Soil
Project Name:	LOST TANKS REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03148	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- LEA CO NM		

Sample ID: BH - 1 (13.0') (H240283-01)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/23/2024	ND	2.19	109	2.00	0.141		
Toluene*	<0.050	0.050	01/23/2024	ND	2.21	110	2.00	0.167		
Ethylbenzene*	<0.050	0.050	01/23/2024	ND	2.20	110	2.00	0.176		
Total Xylenes*	<0.150	0.150	01/23/2024	ND	6.66	111	6.00	0.231		
Total BTX	<0.300	0.300	01/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	01/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2024	ND	219	109	200	1.09	
DRO >C10-C28*	<10.0	10.0	01/23/2024	ND	209	105	200	4.35	
EXT DRO >C28-C36	<10.0	10.0	01/23/2024	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	01/22/2024	Sampling Date:	01/22/2024
Reported:	01/25/2024	Sampling Type:	Soil
Project Name:	LOST TANKS REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03148	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- LEA CO NM		

Sample ID: BH - 2 (13.0') (H240283-02)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2024	ND	2.19	109	2.00	0.141	
Toluene*	<0.050	0.050	01/23/2024	ND	2.21	110	2.00	0.167	
Ethylbenzene*	<0.050	0.050	01/23/2024	ND	2.20	110	2.00	0.176	
Total Xylenes*	<0.150	0.150	01/23/2024	ND	6.66	111	6.00	0.231	
Total BTX	<0.300	0.300	01/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	01/23/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2024	ND	219	109	200	1.09	
DRO >C10-C28*	<10.0	10.0	01/23/2024	ND	209	105	200	4.35	
EXT DRO >C28-C36	<10.0	10.0	01/23/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 01/22/2024
Reported: 01/25/2024
Project Name: LOST TANKS REMEDIATION
Project Number: 212C - MD - 03148
Project Location: SOLARIS- LEA CO NM

Sampling Date: 01/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: BH - 3 (4.0') (H240283-03)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2024	ND	2.19	109	2.00	0.141	
Toluene*	<0.050	0.050	01/23/2024	ND	2.21	110	2.00	0.167	
Ethylbenzene*	<0.050	0.050	01/23/2024	ND	2.20	110	2.00	0.176	
Total Xylenes*	<0.150	0.150	01/23/2024	ND	6.66	111	6.00	0.231	
Total BTEX	<0.300	0.300	01/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2024	ND	219	109	200	1.09	
DRO >C10-C28*	<10.0	10.0	01/23/2024	ND	209	105	200	4.35	
EXT DRO >C28-C36	<10.0	10.0	01/23/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	01/22/2024	Sampling Date:	01/22/2024
Reported:	01/25/2024	Sampling Type:	Soil
Project Name:	LOST TANKS REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03148	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- LEA CO NM		

Sample ID: BH - 4 (4.0') (H240283-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2024	ND	2.19	109	2.00	0.141	
Toluene*	<0.050	0.050	01/23/2024	ND	2.21	110	2.00	0.167	
Ethylbenzene*	<0.050	0.050	01/23/2024	ND	2.20	110	2.00	0.176	
Total Xylenes*	<0.150	0.150	01/23/2024	ND	6.66	111	6.00	0.231	
Total BTEX	<0.300	0.300	01/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2024	ND	219	109	200	1.09	
DRO >C10-C28*	<10.0	10.0	01/23/2024	ND	209	105	200	4.35	
EXT DRO >C28-C36	<10.0	10.0	01/23/2024	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	01/22/2024	Sampling Date:	01/22/2024
Reported:	01/25/2024	Sampling Type:	Soil
Project Name:	LOST TANKS REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03148	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- LEA CO NM		

Sample ID: BH - 5 (1.0') (H240283-05)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/23/2024	ND	2.19	109	2.00	0.141		
Toluene*	<0.050	0.050	01/23/2024	ND	2.21	110	2.00	0.167		
Ethylbenzene*	<0.050	0.050	01/23/2024	ND	2.20	110	2.00	0.176		
Total Xylenes*	<0.150	0.150	01/23/2024	ND	6.66	111	6.00	0.231		
Total BTX	<0.300	0.300	01/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2024	ND	219	109	200	1.09	
DRO >C10-C28*	<10.0	10.0	01/23/2024	ND	209	105	200	4.35	
EXT DRO >C28-C36	<10.0	10.0	01/23/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	01/22/2024	Sampling Date:	01/22/2024
Reported:	01/25/2024	Sampling Type:	Soil
Project Name:	LOST TANKS REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03148	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- LEA CO NM		

Sample ID: BH - 6 (1.0') (H240283-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/23/2024	ND	2.19	109	2.00	0.141		
Toluene*	<0.050	0.050	01/23/2024	ND	2.21	110	2.00	0.167		
Ethylbenzene*	<0.050	0.050	01/23/2024	ND	2.20	110	2.00	0.176		
Total Xylenes*	<0.150	0.150	01/23/2024	ND	6.66	111	6.00	0.231		
Total BTEX	<0.300	0.300	01/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/23/2024	ND	219	109	200	1.09		
DRO >C10-C28*	<10.0	10.0	01/23/2024	ND	209	105	200	4.35		
EXT DRO >C28-C36	<10.0	10.0	01/23/2024	ND						

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	01/22/2024	Sampling Date:	01/22/2024
Reported:	01/25/2024	Sampling Type:	Soil
Project Name:	LOST TANKS REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03148	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- LEA CO NM		

Sample ID: SW- 1 (H240283-07)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2024	ND	2.17	109	2.00	2.39	
Toluene*	<0.050	0.050	01/23/2024	ND	2.15	108	2.00	6.97	QR-03
Ethylbenzene*	<0.050	0.050	01/23/2024	ND	2.22	111	2.00	9.34	QM-07, QR-03
Total Xylenes*	<0.150	0.150	01/23/2024	ND	6.60	110	6.00	11.1	QM-07, QR-03
Total BTEx	<0.300	0.300	01/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2024	ND	220	110	200	0.608	
DRO >C10-C28*	<10.0	10.0	01/23/2024	ND	202	101	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	01/23/2024	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	01/22/2024	Sampling Date:	01/22/2024
Reported:	01/25/2024	Sampling Type:	Soil
Project Name:	LOST TANKS REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03148	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- LEA CO NM		

Sample ID: SW- 2 (H240283-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/23/2024	ND	2.17	109	2.00	2.39		
Toluene*	<0.050	0.050	01/23/2024	ND	2.15	108	2.00	6.97		
Ethylbenzene*	<0.050	0.050	01/23/2024	ND	2.22	111	2.00	9.34		
Total Xylenes*	<0.150	0.150	01/23/2024	ND	6.60	110	6.00	11.1		
Total BTEx	<0.300	0.300	01/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2024	ND	220	110	200	0.608	
DRO >C10-C28*	<10.0	10.0	01/23/2024	ND	202	101	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	01/23/2024	ND					

Surrogate: 1-Chlorooctane 75.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	01/22/2024	Sampling Date:	01/22/2024
Reported:	01/25/2024	Sampling Type:	Soil
Project Name:	LOST TANKS REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03148	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- LEA CO NM		

Sample ID: SW- 3 (H240283-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/23/2024	ND	2.17	109	2.00	2.39		
Toluene*	<0.050	0.050	01/23/2024	ND	2.15	108	2.00	6.97		
Ethylbenzene*	<0.050	0.050	01/23/2024	ND	2.22	111	2.00	9.34		
Total Xylenes*	<0.150	0.150	01/23/2024	ND	6.60	110	6.00	11.1		
Total BTEX	<0.300	0.300	01/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	01/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2024	ND	220	110	200	0.608	
DRO >C10-C28*	<10.0	10.0	01/23/2024	ND	202	101	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	01/23/2024	ND					

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	01/22/2024	Sampling Date:	01/22/2024
Reported:	01/25/2024	Sampling Type:	Soil
Project Name:	LOST TANKS REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03148	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- LEA CO NM		

Sample ID: SW- 4 (H240283-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/23/2024	ND	2.17	109	2.00	2.39		
Toluene*	<0.050	0.050	01/23/2024	ND	2.15	108	2.00	6.97		
Ethylbenzene*	<0.050	0.050	01/23/2024	ND	2.22	111	2.00	9.34		
Total Xylenes*	<0.150	0.150	01/23/2024	ND	6.60	110	6.00	11.1		
Total BTEx	<0.300	0.300	01/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	01/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2024	ND	220	110	200	0.608	
DRO >C10-C28*	<10.0	10.0	01/23/2024	ND	202	101	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	01/23/2024	ND					

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 BRITTANY LONG
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/22/2024	Sampling Date:	01/22/2024
Reported:	01/25/2024	Sampling Type:	Soil
Project Name:	LOST TANKS REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03148	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- LEA CO NM		

Sample ID: SW- 5 (H240283-11)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2024	ND	2.17	109	2.00	2.39	
Toluene*	<0.050	0.050	01/23/2024	ND	2.15	108	2.00	6.97	
Ethylbenzene*	<0.050	0.050	01/23/2024	ND	2.22	111	2.00	9.34	
Total Xylenes*	<0.150	0.150	01/23/2024	ND	6.60	110	6.00	11.1	
Total BTX	<0.300	0.300	01/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/23/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2024	ND	220	110	200	0.608	
DRO >C10-C28*	<10.0	10.0	01/23/2024	ND	202	101	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	01/23/2024	ND					

Surrogate: 1-Chlorooctane 95.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 01/22/2024
Reported: 01/25/2024
Project Name: LOST TANKS REMEDIATION
Project Number: 212C - MD - 03148
Project Location: SOLARIS- LEA CO NM

Sampling Date: 01/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SW- 6 (H240283-12)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2024	ND	2.17	109	2.00	2.39	
Toluene*	<0.050	0.050	01/23/2024	ND	2.15	108	2.00	6.97	
Ethylbenzene*	<0.050	0.050	01/23/2024	ND	2.22	111	2.00	9.34	
Total Xylenes*	<0.150	0.150	01/23/2024	ND	6.60	110	6.00	11.1	
Total BTEX	<0.300	0.300	01/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/23/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2024	ND	220	110	200	0.608	
DRO >C10-C28*	<10.0	10.0	01/23/2024	ND	202	101	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	01/23/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	01/22/2024	Sampling Date:	01/22/2024
Reported:	01/25/2024	Sampling Type:	Soil
Project Name:	LOST TANKS REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03148	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- LEA CO NM		

Sample ID: SW- 7 (H240283-13)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/23/2024	ND	2.17	109	2.00	2.39		
Toluene*	<0.050	0.050	01/23/2024	ND	2.15	108	2.00	6.97		
Ethylbenzene*	<0.050	0.050	01/23/2024	ND	2.22	111	2.00	9.34		
Total Xylenes*	<0.150	0.150	01/23/2024	ND	6.60	110	6.00	11.1		
Total BTEX	<0.300	0.300	01/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2024	ND	220	110	200	0.608	
DRO >C10-C28*	<10.0	10.0	01/23/2024	ND	202	101	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	01/23/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	01/22/2024	Sampling Date:	01/22/2024
Reported:	01/25/2024	Sampling Type:	Soil
Project Name:	LOST TANKS REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03148	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- LEA CO NM		

Sample ID: SW- 8 (H240283-14)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2024	ND	2.17	109	2.00	2.39	
Toluene*	<0.050	0.050	01/23/2024	ND	2.15	108	2.00	6.97	
Ethylbenzene*	<0.050	0.050	01/23/2024	ND	2.22	111	2.00	9.34	
Total Xylenes*	<0.150	0.150	01/23/2024	ND	6.60	110	6.00	11.1	
Total BTEX	<0.300	0.300	01/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	01/23/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2024	ND	220	110	200	0.608	
DRO >C10-C28*	<10.0	10.0	01/23/2024	ND	202	101	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	01/23/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 01/22/2024
Reported: 01/25/2024
Project Name: LOST TANKS REMEDIATION
Project Number: 212C - MD - 03148
Project Location: SOLARIS- LEA CO NM

Sampling Date: 01/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SW- 9 (H240283-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2024	ND	2.17	109	2.00	2.39	
Toluene*	<0.050	0.050	01/23/2024	ND	2.15	108	2.00	6.97	
Ethylbenzene*	<0.050	0.050	01/23/2024	ND	2.22	111	2.00	9.34	
Total Xylenes*	<0.150	0.150	01/23/2024	ND	6.60	110	6.00	11.1	
Total BTEX	<0.300	0.300	01/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	01/23/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2024	ND	220	110	200	0.608	
DRO >C10-C28*	<10.0	10.0	01/23/2024	ND	202	101	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	01/23/2024	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.9 % 49.1-148

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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	01/22/2024	Sampling Date:	01/22/2024
Reported:	01/25/2024	Sampling Type:	Soil
Project Name:	LOST TANKS REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03148	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- LEA CO NM		

Sample ID: SW- 10 (H240283-16)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2024	ND	2.17	109	2.00	2.39	
Toluene*	<0.050	0.050	01/23/2024	ND	2.15	108	2.00	6.97	
Ethylbenzene*	<0.050	0.050	01/23/2024	ND	2.22	111	2.00	9.34	
Total Xylenes*	<0.150	0.150	01/23/2024	ND	6.60	110	6.00	11.1	
Total BTEX	<0.300	0.300	01/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2024	ND	220	110	200	0.608	
DRO >C10-C28*	<10.0	10.0	01/23/2024	ND	202	101	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	01/23/2024	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 01/22/2024
Reported: 01/25/2024
Project Name: LOST TANKS REMEDIATION
Project Number: 212C - MD - 03148
Project Location: SOLARIS- LEA CO NM

Sampling Date: 01/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SW- 11 (H240283-17)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2024	ND	2.17	109	2.00	2.39	
Toluene*	<0.050	0.050	01/23/2024	ND	2.15	108	2.00	6.97	
Ethylbenzene*	<0.050	0.050	01/23/2024	ND	2.22	111	2.00	9.34	
Total Xylenes*	<0.150	0.150	01/23/2024	ND	6.60	110	6.00	11.1	
Total BTEX	<0.300	0.300	01/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/23/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2024	ND	220	110	200	0.608	
DRO >C10-C28*	<10.0	10.0	01/23/2024	ND	202	101	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	01/23/2024	ND					

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 01/22/2024
Reported: 01/25/2024
Project Name: LOST TANKS REMEDIATION
Project Number: 212C - MD - 03148
Project Location: SOLARIS- LEA CO NM

Sampling Date: 01/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SW- 12 (H240283-18)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2024	ND	2.17	109	2.00	2.39	
Toluene*	<0.050	0.050	01/23/2024	ND	2.15	108	2.00	6.97	
Ethylbenzene*	<0.050	0.050	01/23/2024	ND	2.22	111	2.00	9.34	
Total Xylenes*	<0.150	0.150	01/23/2024	ND	6.60	110	6.00	11.1	
Total BTEX	<0.300	0.300	01/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/23/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2024	ND	220	110	200	0.608	
DRO >C10-C28*	<10.0	10.0	01/23/2024	ND	202	101	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	01/23/2024	ND					

Surrogate: 1-Chlorooctane 70.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
BRITTANY LONG
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	01/22/2024	Sampling Date:	01/22/2024
Reported:	01/25/2024	Sampling Type:	Soil
Project Name:	LOST TANKS REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03148	Sample Received By:	Dionica Hinojos
Project Location:	SOLARIS- LEA CO NM		

Sample ID: SW- 13 (H240283-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/23/2024	ND	2.17	109	2.00	2.39		
Toluene*	<0.050	0.050	01/23/2024	ND	2.15	108	2.00	6.97		
Ethylbenzene*	<0.050	0.050	01/23/2024	ND	2.22	111	2.00	9.34		
Total Xylenes*	<0.150	0.150	01/23/2024	ND	6.60	110	6.00	11.1		
Total BTEX	<0.300	0.300	01/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/23/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2024	ND	220	110	200	0.608	
DRO >C10-C28*	<10.0	10.0	01/23/2024	ND	202	101	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	01/23/2024	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Solaris

Site Manager:

Brittany Long

Lost Tanks Remediation

432-741-5813

Brittany.Long@tetratech.com

Lea County, NM

Project #:

212C-MD-03148

Solaris, Attn: Rob Kirk

Laboratory:

Cardinal Labs

Sampler Signature:

Jorge Fernandez

SAMPLE IDENTIFICATION

#	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE			
11	BH-1 (13.0')	1/22/2024		X			X				
12	BH-2 (13.0')	1/22/2024		X			X				
13	BH-3 (4.0')	1/22/2024		X			X				
14	BH-4 (4.0')	1/22/2024		X			X				
15	BH-5 (1.0')	1/22/2024		X			X				
16	BH-6 (1.0') <i>CFD</i>	1/22/2024		X			X				
17	SW-1	1/22/2024		X			X				
18	SW-2	1/22/2024		X			X				
19	SW-3	1/22/2024		X			X				
20	SW-4	1/22/2024		X			X				

ANALYSIS REQUEST (Circle or Specify Method No.)

BTEX 8021B	BTEX 8260B
TPH TX1005 (Ext to C35)	
TPH 8015M (GRO - DRO - ORO - MRO)	
PAH 8270C	
Total Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
RCI	
GC/MS Vol. 8260B / 624	
GC/MS Semi. Vol. 8270C/625	
PCB's 8082 / 608	
NORM	
PLM (Asbestos)	
Chloride	
Chloride Sulfate TDS	
General Water Chemistry (see attached list)	
Anion/Cation Balance	

LAB USE ONLY

Sample Temperature

Date: Time:

REMARKS:

Standard TAT

☐ RUSH: Same Day 24 hr 48 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client:

Site Manager:

Brittany Long

Project Name:

432-741-5813

Location:

Project #:

212C-MD-03148

Client Address:

Project Address:

Cardinal Labs

Jorge Fernandez

Lab:

Handwritten: H20083

SAMPLE IDENTIFICATION

#	JSE	Y	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	# CONTAINERS	FILTERED (Y/N)	REMARKS
11			1/22/2024		X							BTEX 8021B BTEX 8260B
12			1/22/2024		X							TPH TX1005 (Ext to C35)
13			1/22/2024		X							TPH 8015M (GRO - DRO - ORO - MRO)
14			1/22/2024		X							PAH 8270C
15			1/22/2024		X							Total Metals Ag As Ba Cd Cr Pb Se Hg
16			1/22/2024		X							TCLP Metals Ag As Ba Cd Cr Pb Se Hg
17			1/22/2024		X							TCLP Volatiles
18			1/22/2024		X							TCLP Semi Volatiles
19			1/22/2024		X							RCI
20			1/22/2024		X							GC/MS Vol. 8260B / 624
21			1/22/2024		X							GC/MS Semi. Vol. 8270C/625
22			1/22/2024		X							PCB's 8082 / 608
23			1/22/2024		X							NORM
24			1/22/2024		X							PLM (Asbestos)
25			1/22/2024		X							Chloride
26			1/22/2024		X							Chloride Sulfate TDS
27			1/22/2024		X							General Water Chemistry (see attached list)
28			1/22/2024		X							Anion/Cation Balance

ANALYSIS REQUEST

Page 23 of 23

LAB USE ONLY

Sample Temperature

0-30c

- REMARKS: Standard TAT
- ☐ RUSH: Same Day 24 hr 48 hr
 - ☐ Rush Charges Authorized
 - ☐ Special Report Limits or TRRP Report

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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

QUESTIONS

Action 325229

QUESTIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID:
	371643
	Action Number:
	325229
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2313632890
Incident Name	NAPP2313632890 DELEK NEXGEN LOST TANKS LINE @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	DELEK NEXGEN LOST TANKS LINE
Date Release Discovered	05/02/2023
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Human Error Pipeline (Any) Produced Water Released: 20 BBL Recovered: 10 BBL Lost: 10 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	A Delek truck tried to drive over a layflat line that NexGen was using to move water to a Solaris pond. Delek elected not to report this release.

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QUESTIONS, Page 2

Action 325229

QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID:
	371643
	Action Number:
	325229
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

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 release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Rob Kirk Title: VP- Environmental Compliance Email: rob.kirk@ariswater.com Date: 03/20/2024
--	--

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QUESTIONS, Page 3

Action 325229

QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID: 371643
	Action Number: 325229
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	5150
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	01/18/2024
On what date will (or did) the final sampling or liner inspection occur	01/22/2024
On what date will (or was) the remediation complete(d)	01/22/2024
What is the estimated surface area (in square feet) that will be reclaimed	1165
What is the estimated volume (in cubic yards) that will be reclaimed	340
What is the estimated surface area (in square feet) that will be remediated	1165
What is the estimated volume (in cubic yards) that will be remediated	340
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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Santa Fe, NM 87505

QUESTIONS, Page 4

Action 325229

QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID:	371643
	Action Number:	325229
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement	Name: Rob Kirk Title: VP- Environmental Compliance Email: rob.kirk@arisswater.com Date: 03/20/2024
--	---

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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District IV
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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 5

Action 325229

QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID:
	371643
	Action Number:
	325229
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
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QUESTIONS, Page 6

Action 325229

QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID:	371643
	Action Number:	325229
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	305363
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/22/2023
What was the (estimated) number of samples that were to be gathered	15
What was the sampling surface area in square feet	1165

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1165
What was the total volume (cubic yards) remediated	340
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	1165
What was the total volume (in cubic yards) reclaimed	340
Summarize any additional remediation activities not included by answers (above)	none

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 (in .pdf format) 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.

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Rob Kirk Title: VP- Environmental Compliance Email: rob.kirk@ariswater.com Date: 03/20/2024
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QUESTIONS, Page 7

Action 325229

QUESTIONS (continued)

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID:
	371643
	Action Number:
	325229
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 325229

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy Houston, TX 77024	OGRID:
	371643
	Action Number:
	325229
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	4/26/2024
scott.rodgers	• The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	4/26/2024