



Remediation Summary and Closure Request

June 26, 2023

**State E 14 Tank Battery
Produced Water Release
Incident #: nOY1726535181 (1RP-4819)**

Prepared For:

Penroc Oil Corporation
1515 Calle Sur, Suite 174
Hobbs, New Mexico 88240

Prepared By:

Crain Environmental
2925 East 17th Street
Odessa, Texas 79761

Cynthia K. Crain, P.G.

State E 14 Tank Battery
Crude Oil Release
Remediation Summary and Closure Request



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1.0 Introduction

Crain Environmental (CE), on behalf of Penroc Oil Corporation (Penroc), has prepared this *Remediation Summary and Closure Request* for the produced water release at State E 14 Tank Battery (Site), located approximately 7.7 miles southwest of Eunice, in Lea County, New Mexico. The global positioning system (GPS) coordinates for the Release Site are 32.388492, -103.283527. The property surface rights are owned by the State of New Mexico. The location of the Release Site is depicted on Figure 1.

2.0 Background

On August 23, 2017, a produced water release was discovered at the State E 14 Tank Battery. An Initial Release Notification Report (C-141) was submitted to the New Mexico Oil Conservation Division (NMOCD) and the New Mexico State Land Office (NMSLO) on September 19, 2017, and Incident # nOY1726535181 (1RP-4819) was assigned. The C-141 reported that 15 barrels (bbls) of produced water were released due to a malfunction of the transfer pump, and 10 bbls of fluid were recovered by vacuum truck.

On November 8, 2017, Penroc submitted a Characterization Workplan (Workplan) to the NMOCD and the NMSLO. The Workplan was approved by the NMOCD on December 8, 2017, and approved by the NMSLO on December 12, 2017. As rain occurred before and after the release, it was estimated that a surface area of 1,200 square feet (2 feet wide and 600 feet long) was affected.

The release point and the surface extent of the crude oil release are depicted on Figure 2. Appendix A provides correspondence from the NMOCD and NMSLO. The initial and final C-141 is provided in Appendix B.

3.0 NMOCD Closure Criteria

Cleanup standards for crude oil and produced water spills are provided in 19.15.29 NMAC. The cleanup standards (described in the rule as "Closure Criteria") are based primarily on depth to groundwater but are also based on other criteria.

The NMOCD requires that soil concentrations from surface to a depth of 4 feet bgs must meet the most stringent Closure Criteria regardless of depth to groundwater. As the maximum depth of samples collected during investigation and remediation was 4 feet bgs, the most stringent Closure Criteria will be applicable to the Site, even though depth to groundwater is estimated to be greater than 100 feet bgs. A summary of the Closure Criteria is provided in the table below and in Table 1.

NMOCD Closure Criteria

Constituent of Concern		Closure Criteria Based on Depth to Groundwater (mg/kg)		
		≤ 50 feet bgs	51 feet to 100 feet bgs	> 100 feet bgs
Chloride (EPA 300)		600	10,000	20,000
TPH (EPA 8015M)	GRO + DRO + MRO	100	2,500	2,500
	GRO + DRO	NA	1,000	1,000
Total BTEX (EPA 8021 or 8260)		50	50	50
Benzene (EPA 8021 or 8260)		10	10	10

Notes: NA = not applicable
bgs = below ground surface

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mg/kg = milligrams per kilogram
 GRO = gasoline range organics
 DRO = diesel range organics
 MRO = motor oil range organics
 TPH = total petroleum hydrocarbons
 BTEX = benzene, toluene, ethylbenzene, and total xylenes
 Green highlighted cells denote applicable Closure Criteria.

4.0 Investigation Activities

On November 9, 2022, a backhoe was used to excavate four test holes (SP-1 through SP-4) along the release path, at depths ranging from 4 (SP-1, SP-3, and SP-4) to 5 feet (') bgs (SP-2). Soil samples were placed in clean glass sample jars, properly labeled, immediately placed on ice and hand delivered to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico under proper chain-of-custody control.

Soil samples from surface (0-6"), 1' and 2' bgs in each test hole were analyzed for total petroleum hydrocarbons (TPH) by Environmental Protection Agency (EPA) SW-846 Method 8015 Modified, for benzene, toluene, ethylbenzene and xylenes (collectively referred to as BTEX) by EPA SW-846 Method 8021B, and for chlorides by EPA Method SM-4500Cl-B. To determine vertical delineation, soil samples collected from depths of 3' and 4' bgs were analyzed for TPH and chlorides, and the sample collected from a depth of 5' bgs was analyzed for chlorides.

Table 1 provides a summary of the laboratory results, and sample locations are provided on Figure 2. The laboratory report and chain-of-custody documentation is provided in Appendix C. Photographs of the investigation are provided in Appendix D.

Referring to Table 1, concentrations of BTEX were reported below the test method detection limits and/or Closure Criteria in all samples. Concentrations of TPH exceeded the Closure Criteria at sample point SP-1 at depths of 0-6" (21,300 mg/kg), 1' bgs (17,984 mg/kg), 2' bgs (21,388 mg/kg), and 3' bgs (10,880 mg/kg), at sample point SP-2 at depths of 0-6" (12,970 mg/kg), 1' bgs (245.8 mg/kg), 2' bgs (635 mg/kg), 3' bgs (1,171 mg/kg), and 4' bgs (220.1 mg/kg), at sample point SP-3 at depths of 0-6" (212.1 mg/kg) and 2' bgs (710 mg/kg). All other samples reported TPH concentrations below the Closure Criteria.

Chloride concentrations exceeded the Closure Criteria at sample point SP-1 at depths of 0-6" (2,880 mg/kg), 1' bgs (640 mg/kg), 2' bgs (880 mg/kg), and 3' bgs (1,020 mg/kg), and at sample point SP-2 at a depth of 4' bgs (624 mg/kg). All other samples reported chloride concentrations below the Closure Criteria.

5.0 Remediation Activities

From May 9 to May 14, 2023, Elite Environmental Services, LLC (Elite), conducted treatment of the affected soil located south east of the Tank Battery and heading east along the north part of the lease road. To promote porosity of the soil, the soil was tilled to a depth of 14 inches and a reagent called Bio-Regen SA1000 was applied to the soil. The Bio-Regen SA 1000 product is manufactured by 3Tier Technologies. The reagent is an advanced treatment product that combines two Polyelectrolyte Enhanced Organic Bio-Polymers (PEB) with bio-available calcium. PEB naturally binds, adsorbs, and coordinates sodium cations and chlorine anions. Any sodium/chloride residue creates a new mineral formation resulting in sodium, chloride, cation and anion conversion into a physically and mechanically bound status, thus eliminating salt toxicity and resulting in desalination and chloride/salt toxicity reduction/elimination.

On May 14, 2023, Elite collected eight composite samples (1A through 8A) of the treated soil from depths of 0-12". All soil samples were placed in laboratory prepared containers, properly labeled, immediately



placed on ice, and hand delivered to Cardinal for analysis of TPH, BTEX, and chlorides. Table 1 provides a summary of the laboratory results, and sample locations are provided on Figure 2. The laboratory report and chain-of-custody documentation is provided in Appendix C. Referring to Table 1, all concentrations of TPH, BTEX, and chlorides were reported below the Closure Criteria.

On June 5, 2023, Elite collected additional composite samples with a hand auger from sample point SP-1 at depths of 2' bgs, 3' bgs, and 4' bgs, from sample point SP-2 at a depth of 2' bgs, 3' bgs, and 4' bgs, and from sample point SP-3 at a depth of 2' bgs. Additionally, eight five-point composite samples (SW-1 through SW-8) were collected around the perimeter of the treated area, each sample from depths of 0 to 4' bgs.

On June 9, 2023, Elite collected additional five-point composite samples (SW-9 through SW-18) from the remainder of the perimeter of the treated area, each sample collected from depths of 0-12" bgs. All soil samples were placed in laboratory prepared containers, properly labeled, immediately placed on ice, and hand delivered to Cardinal for analysis of TPH, BTEX, and chlorides.

Table 1 provides a summary of the laboratory results, and sample locations with concentrations are provided on Figure 2. The laboratory reports and chain-of-custody documentation is provided in Appendix C. Photographic documentation is provided in Appendix D. Referring to Table 1, final concentrations of TPH, BTEX, and chlorides were reported below the Closure Criteria in all samples.

Referring to Table 1, all concentrations of TPH, BTEX, and chlorides were reported below the Closure Criteria.

6.0 Laboratory Analytical Data Quality Assurance/Quality Control Results

Data in the Cardinal laboratory reports dated November 18, 2022, May 19, 2023, June 9, 2023, and June 13, 2023, was reviewed to ensure that reported analytical results met data quality objectives. It was determined by quality control data associated with analytical results that reported concentrations of target analytes are defensible and that measurement data reliability is within the expected limits of sampling and analytical error. All analytical results are usable for characterization of soil at the Site. The laboratory analytical results are provided as Appendix C.

7.0 Request for Closure

From May 9, 2023, through June 9, 2023, all affected soil located south and east of the State E 14 Tank Battery and east of the Site along the north portion of the lease road was treated until in situ soil concentrations of TPH, BTEX, and chlorides were reported below the NMOCD Closure Criteria.

Penroc respectfully requests that Closure be approved for Incident No nOY1726535181 (1RP-4819).

8.0 Distribution Via Email

Copy 1: New Mexico Oil Conservation Division Fee Portal

Copy 2: Mike Bratcher
Mike.Bratcher@enmrd.nm.gov

Copy 3: New Mexico State Land Office
spills@slo.state.nm.us

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TABLE

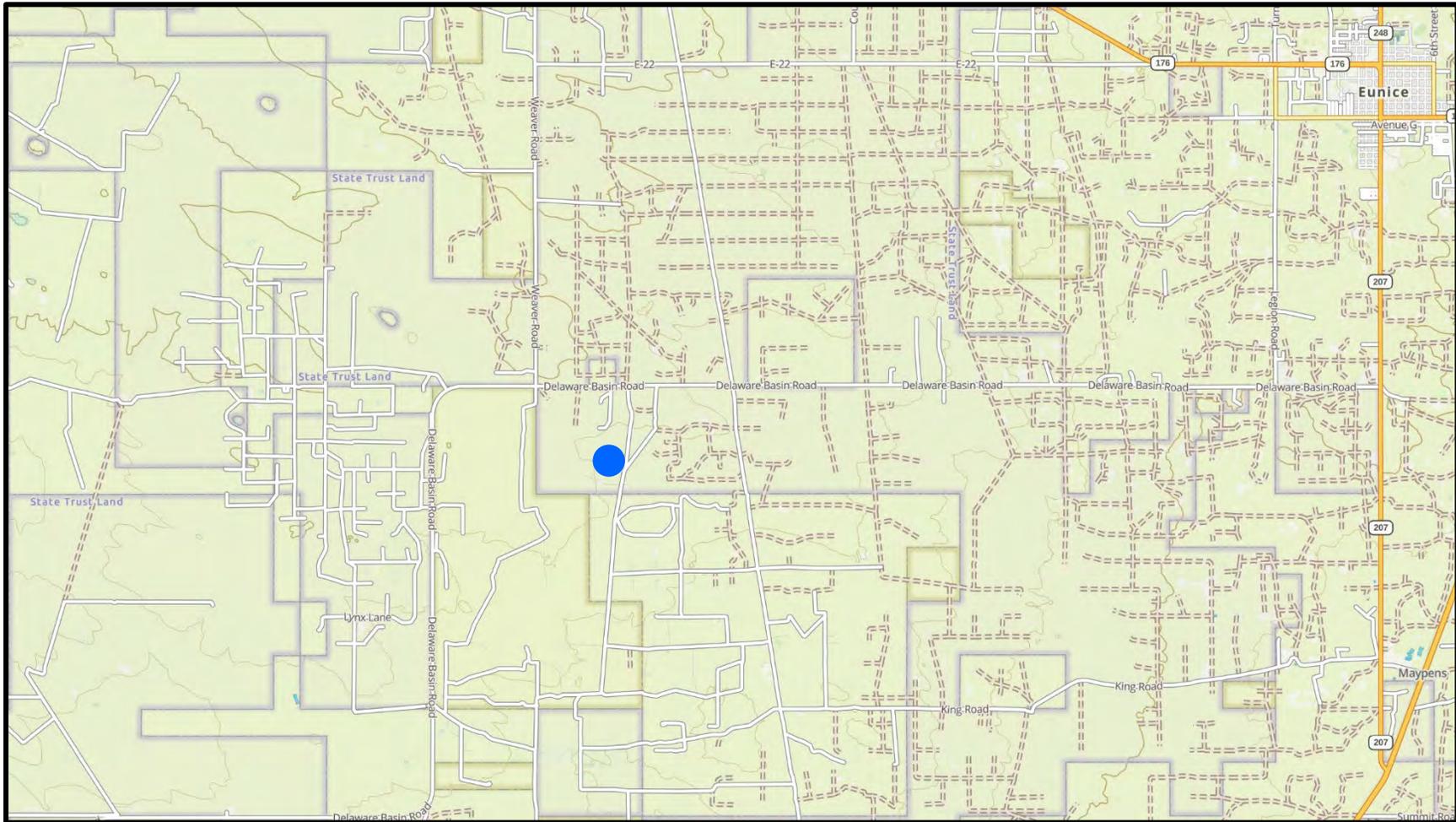
TABLE 1
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
PENROC OIL CORPORATION
STATE E 14 TANK BATTERY

Sample ID	Sample Date	Sample Depth	Soil Status	TPH	TPH	TPH	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride
				(GRO)	(DRO)	(MRO)							
NMOCD Closure Criteria (Surface to 4' bgs)				-	-	-	100	10	-	-	-	50	600
milligrams per kilogram (mg/kg)													
BOTTOM SAMPLES													
SP-1	11/09/22	0-6"	Excavated	<100	16,400	4,900	21,300	<0.050	<0.050	0.051	0.231	<0.300	2,880
	11/09/22	1'	Excavated	<10.0	14,400	3,420	17,984	<0.050	<0.050	0.325	1.75	<0.300	640
1A	05/14/23	0-12"	Excavated	<10.0	82.7	<10.0	82.7	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	11/09/22	2'	Excavated	308	17,200	3,880	21,388	<0.050	<0.050	1.33	6.17	<0.300	880
SP-1 - 2'	06/05/23	2'	Excavated	<10.0	<10.0	<10.0	<10.0	--	--	--	--	--	16.0
	11/09/22	3'	Excavated	<100	8,770	2,110	10,880	--	--	--	--	--	1,020
SP-1 - 3'	06/05/23	3'	Excavated	<10.0	<10.0	<10.0	<10.0	--	--	--	--	--	16.0
	11/09/22	4'	In Situ	<10.0	68.2	30.4	98.6	--	--	--	--	--	224
SP-1 - 4'	06/05/23	4'	In Situ	--	--	--	--	--	--	--	--	--	<16.0
SP-2	11/09/22	0-6"	Excavated	<100	10,100	2,870	12,970	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	11/09/22	1'	Excavated	<10.0	163	82.8	245.8	<0.050	<0.050	<0.050	<0.150	<0.300	384
2A	05/14/23	0-12"	Excavated	<10.0	70	<10.0	70.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	11/09/22	2'	Excavated	<10.0	371	264	635	<0.050	<0.050	<0.050	<0.150	<0.300	576
SP-2 - 2'	06/05/23	2'	Excavated	<10.0	<10.0	<10.0	<10.0	--	--	--	--	--	48.0
	11/09/22	3'	Excavated	<10.0	770	401	1,171	--	--	--	--	--	448
SP-2 - 3'	06/05/23	3'	Excavated	<10.0	<10.0	<10.0	<10.0	--	--	--	--	--	48.0
	11/09/22	4'	Excavated	<10.0	123	97.1	220.1	--	--	--	--	--	624
SP-2 - 4'	06/05/23	4'	In Situ	<10.0	<10.0	<10.0	<10.0	--	--	--	--	--	48.0
	11/09/22	5'	In Situ	--	--	--	--	--	--	--	--	--	240
SP-3	11/09/22	0-6"	Treated	<10.0	132	80.1	212.1	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
	11/09/22	1'	Treated	<10.0	64.2	<10.0	64.2	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
3A	05/14/23	0-12"	Treated	<10.0	85	<10.0	85	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
	11/09/22	2'	Treated	<10.0	536	174	710	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
SP-3 - 2'	06/05/23	2'	In Situ	<10.0	<10.0	<10.0	<10.0	--	--	--	--	--	<16.0
	11/09/22	3'	In Situ	<10.0	<10.0	<10.0	<10.0	--	--	--	--	--	112
	11/09/22	4'	In Situ	--	--	--	--	--	--	--	--	--	176
SP-4	11/09/22	0-6"	In Situ	<10.0	16.2	11.1	27.3	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
	11/09/22	1'	In Situ	<10.0	14.6	<10.0	14.6	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	11/09/22	2'	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	11/09/22	3'	In Situ	--	--	--	--	--	--	--	--	--	48.0
	11/09/22	4'	In Situ	--	--	--	--	--	--	--	--	--	80.0
4A	05/14/23	0-12"	In Situ	<10.0	54	<10.0	54	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
5A	05/14/23	0-12"	In Situ	<10.0	55	28.0	83	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
6A	05/14/23	0-12"	In Situ	<10.0	58	25.3	83.3	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
7A	05/14/23	0-12"	In Situ	<10.0	67	21.9	88.9	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
8A	05/14/23	0-12"	In Situ	<10.0	58	18.2	76.2	<0.050	<0.050	<0.050	<0.150	<0.300	144
COMPOSITE SIDEWALL SAMPLES													
SW-1	06/05/23	0-4'	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-2	06/05/23	0-4'	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-3	06/05/23	0-4'	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-4	06/05/23	0-4'	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-5	06/05/23	0-4'	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-6	06/05/23	0-4'	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-7	06/05/23	0-4'	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-8	06/05/23	0-4'	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-9	06/09/23	0-12"	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-10	06/09/23	0-12"	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-11	06/09/23	0-12"	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-12	06/09/23	0-12"	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-13	06/09/23	0-12"	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-14	06/09/23	0-12"	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-15	06/09/23	0-12"	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-16	06/09/23	0-12"	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-17	06/09/23	0-12"	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-18	06/09/23	0-12"	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0

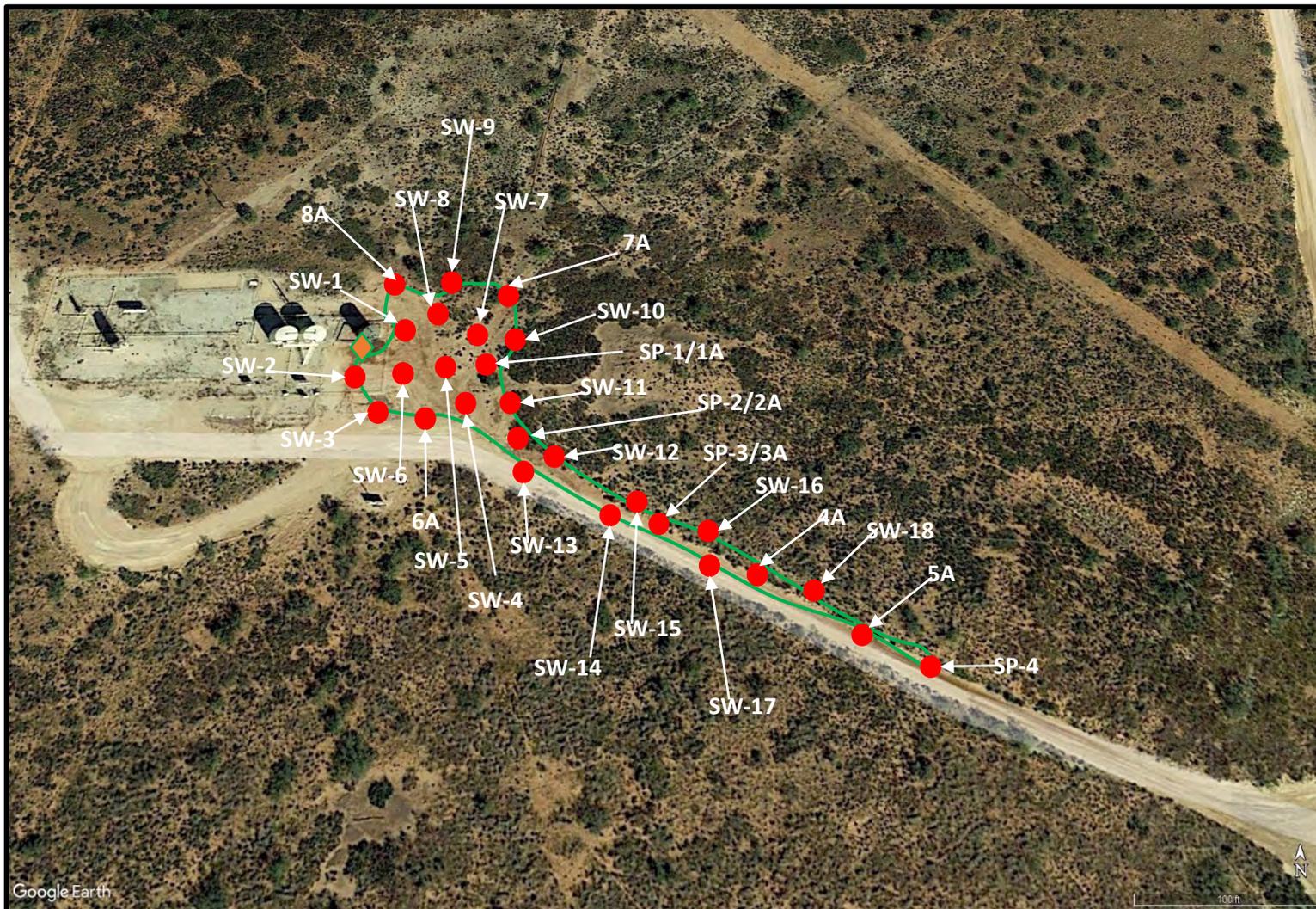
- Notes:
- GRO: Gasoline Range Organics
 - DRO: Diesel Range Organics
 - MRO: Motor Oil Range Organics
 - bgs: Below ground surface.
 - : No NMOCD Closure Criteria established.
 - Bold indicates the COC was above the appropriate laboratory method/sample detection limit.
 - <.: Indicates the COC was below the appropriate laboratory method/sample detection limit.
 - Yellow highlighting indicates the COC was above the appropriate NMOCD Closure Criteria.
 - Green highlighting and italic font indicates soil was excavated or treated.



FIGURES



<p>LEGEND:</p> <p> Site Location</p> <p>Base Map from GAIA GPS</p>		<p>Figure 1</p> <p>Site Location Map</p> <p>Penroc Oil Corporation</p> <p>State E 14 Tank Battery</p> <p>Lea County, New Mexico</p>	<p>Drafted by: CC Checked by: CC</p>	
			<p>Draft: June 23, 2023</p> <p>GPS: 32.388492 -103.283527</p>	



LEGEND:  Treatment Boundary  Release Point  Sample Location With Depth (ft bgs) and Concentrations (mg/kg)	Figure 2 Sample Location Map Penroc Oil Corporation State E 14 Tank Battery Lea County, New Mexico		Drafted by: CC Checked by: CC	
			Draft: June 23, 2023	
			GPS: 32.388492 -103.283527	



Appendix A: NMOCD and NMSLO Correspondence

From: Groves, Amber
To: "Todd Yocham"; Yu, Olivia, EMNRD
Cc: mymerch@penrocoil.com; aggie@penrocoil.com; ECallahan@berkleyoil-gas.com
Subject: RE: Penroc Oil Corporation - State E 10 Strawn Tank Battery and State E 14 Soil Contamination Characterization Work Plans
Date: Tuesday, December 12, 2017 4:55:25 PM
Attachments: image001.png
image003.png

Todd,

NMSLO agrees with NMOCD on both RP's.

Thank you,

Amber Groves

Remediation Specialist
Field Operations Division
(575)392-3697
(575)263-3209 cell
New Mexico State Land Office
2827 N. Dal Paso Suite 117
Hobbs, NM 88240

***The New Mexico State Land Office will be closed from 12/22/2017 at 1pm - 01/01/2018. The office will reopen on 01/02/2018. Happy Holidays!**

.....
CONFIDENTIALITY NOTICE - This e-mail transmission, including all documents, files, or previous e-mail messages attached hereto, may contain confidential and/or legally privileged information. If you are not the intended recipient, or a person responsible for delivering it to the intended recipient, you are hereby notified that you must not read this transmission and that any disclosure, copying, printing, distribution, or use of any of the information contained in and/or attached to this transmission is **STRICTLY PROHIBITED**. If you have received this transmission in error, please immediately notify the sender and delete the original transmission and its attachments without reading or saving in any manner. Thank you.

From: Todd Yocham [mailto:tyocham@desertproduction.com]
Sent: Monday, December 11, 2017 12:22 PM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>
Cc: Groves, Amber <agroves@slo.state.nm.us>; mymerch@penrocoil.com; aggie@penrocoil.com; ECallahan@berkleyoil-gas.com
Subject: RE: Penroc Oil Corporation - State E 10 Strawn Tank Battery and State E 14 Soil Contamination Characterization Work Plans

Dear Ms. Yu,

I will expand the delineation plan for 1RP-4802 and re-submit.

Thank you for the approval on delineation plan for 1RP-4819.

Thank you,

Todd Yocham

From: Yu, Olivia, EMNRD [<mailto:Olivia.Yu@state.nm.us>]
Sent: Friday, December 08, 2017 3:05 PM
To: Todd Yocham
Cc: Groves, Amber; mymerch@penrocoil.com; aggie@penrocoil.com; ECallahan@berkeleyoil-gas.com
Subject: RE: Penroc Oil Corporation - State E 10 Strawn Tank Battery and State E 14 Soil Contamination Characterization Work Plans

Dear Mr. Yocham:

NMOCD rejects the proposed delineation plan for 1RP-4802. Please review the Google Earth image from November 2017. The impacted area is larger than indicated in the workplan.

NMOCD will accept the proposed delineation plan for 1RP-4819.

Please be advised that for complete vertical delineation, soil samples analyzed by an accredited laboratory must demonstrate permissible levels of BTEX, TPH extended, and chlorides for at least 2 depths: depth obtained and depth maintained at least 5 feet further in depth. Permissible levels for horizontal and vertical delineation is 600 mg/kg.

Like approval from NMSLO is required. NMSLO may have additional stipulations.

Thanks,

Olivia Yu
Environmental Specialist
NMOCD, District I
Olivia.yu@state.nm.us
575-393-6161 x113

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

From: Todd Yocham [<mailto:tyocham@desertproduction.com>]

Sent: Wednesday, November 8, 2017 1:16 PM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>
Cc: Groves, Amber <agroves@slo.state.nm.us>; mymerch@penrocoil.com; aggie@penrocoil.com; ECallahan@berkleyoil-gas.com
Subject: Penroc Oil Corporation - State E 10 Strawn Tank Battery and State E 14 Soil Contamination Characterization Work Plans

Oil Conservation Division (OCD) – District 1
1625 N. French Dr.
Hobbs, NM 88240
Attn: Olivia Yu

Ms. Yu,

Attached please find the submitted work plans for the characterization of impacts associated with the release of produced water and crude oil for the following Remediation Cases:

Remediation Case No. 1RP-4802
State E 10 Strawn Tank Battery
And
Remediation Case No. 1RP-4819
State E 14

Please let me know if you have any questions.

Thank you,

Todd

Todd M. Yocham
Petroleum Engineer
C:432.770.0615

-
-

Penroc Oil Corporation
1515 W Calle Sur, Suite 174
Hobbs, NM 88241

This email has been scanned by the Symantec Email Security.cloud service.
For more information please visit <http://www.symanteccloud.com>



**Appendix B: Release Notification and Corrective Action Form
(NMOCD Form C-141)**

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

Form C-141
Revised April 3, 2017

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

Release Notification and Corrective Action

OPERATOR Initial Report Final Report

Name of Company Penroc Oil Corporation	Contact M.Y. Merchant
Address 1515W Calle Sur, Suite 174, Hobbs, NM 88241	Telephone No. 575-492-1236
Facility Name State E 14	Facility Type Satellite Water Tank Battery

Surface Owner State	Mineral Owner State of NM	API No. 30-025-30516
----------------------------	---------------------------	----------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	17	22S	36E					Lea

Latitude 32.388449 Longitude -103.283518 NAD83

NATURE OF RELEASE

Type of Release Produced Water and Skim Oil	Volume of Release 15 bbls	Volume Recovered 10 bbls
Source of Release Produced Water Tank	Date and Hour of Occurrence 08/23/17 6:30 am	Date and Hour of Discovery 08/23/17 7:00 am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

RECEIVED
By Olivia Yu at 9:36 am, Sep 22, 2017

Describe Cause of Problem and Remedial Action Taken.*

Penroc recently took over operations from Conoco-Phillips. This Satellite Produced Water Tank battery is located a distance from main tank battery. Water is transferred from main tank battery to this Satellite battery before being transferred to SWD. The water transfer pump at the Satellite battery malfunctioned due to lightning storm in the area. A line fuse was down causing the transfer pump to not come on at the proper time to transfer the water. The spill fluid ran over the top of the tank and down the road. The spill fluid was diluted with the rain water and was recovered with a vacuum truck. The spill area was dragged and clean dirt was spread.

Describe Area Affected and Cleanup Action Taken.*

2 ft wide, 600 feet long effected. Area was dragged and clean dirt was spread.

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

Signature: <i>Todd Yocham</i>	OIL CONSERVATION DIVISION	
Printed Name: Todd Yocham	Approved by Environmental Specialist: <i>oy</i>	
Title: Petroleum Engineer	Approval Date: 9/22/2017	Expiration Date:
E-mail Address: tyocham@desertproduction.com	Conditions of Approval:	Attached <input checked="" type="checkbox"/>
Date: 9/19/2017 Phone: 575-492-1236	see attached directive	

State of New Mexico
Oil Conservation Division

Incident ID	nOY1726535181
District RP	1RP-4819
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>Cindy Crain</u> Title: <u>Agent for Penroc Oil Corporation</u> Signature: <u></u> Date: <u>6/26/23</u> email: <u>cindy.crain@gmail.com</u> Telephone: <u>(575) 441-7244</u>
<u>OCD Only</u> Received by: _____ Date: _____

Incident ID	nOY1726535181
District RP	1RP-4819
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>100</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Incident ID	nOY1726535181
District RP	1RP-4819
Facility ID	
Application ID	

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

Printed Name: Cindy Crain Title: Agent for Penroc Oil Corporation

Signature:  Date: 6/26/23

email: cindy.crain@gmail.com Telephone: (575) 441-7244

OCD Only

Received by: Shelly Wells Date: 6/26/2023

Incident ID	nOY1726535181
District RP	1RP-4819
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____ Date: _____

Incident ID	nOY1726535181
District RP	1RP-4819
Facility ID	
Application ID	

Closure

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

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

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

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.

Printed Name: Cindy Crain Title: Agent for Penroc Oil Corporation
 Signature:  Date: 6/26/23
 email: cindy.crain@gmail.com Telephone: (575) 441-7244

OCD Only

Received by: Shelly Wells Date: 6/26/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 09/20/2023
 Printed Name: Nelson Velez Title: Environmental Specialist – Adv



Appendix C: Laboratory Analytical Results



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

November 18, 2022

CINDY CRAIN
CRAIN ENVIROMENTAL
2925 E. 17TH ST.
ODESSA, TX 79761

RE: STATE E 14 TB

Enclosed are the results of analyses for samples received by the laboratory on 11/09/22 16:18.

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/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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,

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

CRAIN ENVIROMENTAL
2925 E. 17TH ST.
ODESSA TX, 79761

Project: STATE E 14 TB
Project Number: PENROC
Project Manager: CINDY CRAIN
Fax To:

Reported:
18-Nov-22 15:37

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP - 1 (0-6")	H225309-01	Soil	09-Nov-22 10:55	09-Nov-22 16:18
SP - 1 (1')	H225309-02	Soil	09-Nov-22 11:00	09-Nov-22 16:18
SP - 1 (2')	H225309-03	Soil	09-Nov-22 11:04	09-Nov-22 16:18
SP - 1 (3')	H225309-04	Soil	09-Nov-22 11:07	09-Nov-22 16:18
SP - 1 (4')	H225309-05	Soil	09-Nov-22 11:10	09-Nov-22 16:18
SP - 2 (0-6")	H225309-07	Soil	09-Nov-22 11:16	09-Nov-22 16:18
SP - 2 (1')	H225309-08	Soil	09-Nov-22 11:17	09-Nov-22 16:18
SP - 2 (2')	H225309-09	Soil	09-Nov-22 11:22	09-Nov-22 16:18
SP - 2 (3')	H225309-10	Soil	09-Nov-22 11:25	09-Nov-22 16:18
SP - 2 (4')	H225309-11	Soil	09-Nov-22 11:30	09-Nov-22 16:18
SP - 2 (5')	H225309-12	Soil	09-Nov-22 11:35	09-Nov-22 16:18
SP - 3 (0-6")	H225309-13	Soil	09-Nov-22 11:37	09-Nov-22 16:18
SP - 3 (1')	H225309-14	Soil	09-Nov-22 11:39	09-Nov-22 16:18
SP - 3 (2')	H225309-15	Soil	09-Nov-22 11:41	09-Nov-22 16:18
SP - 3 (3')	H225309-16	Soil	09-Nov-22 11:45	09-Nov-22 16:18
SP - 3 (4')	H225309-17	Soil	09-Nov-22 11:50	09-Nov-22 16:18
SP - 4 (0-6")	H225309-19	Soil	09-Nov-22 12:03	09-Nov-22 16:18
SP - 4 (1')	H225309-20	Soil	09-Nov-22 12:05	09-Nov-22 16:18
SP - 4 (2')	H225309-21	Soil	09-Nov-22 12:08	09-Nov-22 16:18
SP - 4 (3')	H225309-22	Soil	09-Nov-22 12:14	09-Nov-22 16:18
SP - 4 (4')	H225309-23	Soil	09-Nov-22 12:22	09-Nov-22 16:18

11/18/22 - Client added TPH to -04, -05, -10, -11 and -16 and Chloride to -12 (See COC). This is the revised report and will replace the one sent on 11/15/22.

Cardinal Laboratories

* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CRAIN ENVIROMENTAL 2925 E. 17TH ST. ODESSA TX, 79761	Project: STATE E 14 TB Project Number: PENROC Project Manager: CINDY CRAIN Fax To:	Reported: 18-Nov-22 15:37
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**SP - 1 (0-6")
 H225309-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	2880		16.0	mg/kg	4	2111104	AC	11-Nov-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Ethylbenzene*	0.051		0.050	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Total Xylenes*	0.231		0.150	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			93.6 %	69.9-140		2111013	JH	12-Nov-22	8021B	

Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	<100		100	mg/kg	10	2111006	MS	11-Nov-22	8015B	
DRO >C10-C28*	16400		100	mg/kg	10	2111006	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	4900		100	mg/kg	10	2111006	MS	11-Nov-22	8015B	
Surrogate: 1-Chlorooctane			112 %	45.3-161		2111006	MS	11-Nov-22	8015B	
Surrogate: 1-Chlorooctadecane			502 %	46.3-178		2111006	MS	11-Nov-22	8015B	

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*=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:

CRAIN ENVIROMENTAL 2925 E. 17TH ST. ODESSA TX, 79761	Project: STATE E 14 TB Project Number: PENROC Project Manager: CINDY CRAIN Fax To:	Reported: 18-Nov-22 15:37
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**SP - 1 (I')
H225309-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	640		16.0	mg/kg	4	2111104	AC	11-Nov-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

S-04

Benzene*	<0.050		0.050	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Ethylbenzene*	0.325		0.050	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Total Xylenes*	1.75		0.150	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Total BTEX	2.07		0.300	mg/kg	50	2111013	JH	12-Nov-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			160 %	69.9-140		2111013	JH	12-Nov-22	8021B	
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Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	164		100	mg/kg	10	2111006	MS	11-Nov-22	8015B	
DRO >C10-C28*	14400		100	mg/kg	10	2111006	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	3420		100	mg/kg	10	2111006	MS	11-Nov-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			138 %	45.3-161		2111006	MS	11-Nov-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			313 %	46.3-178		2111006	MS	11-Nov-22	8015B	
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*=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:

CRAIN ENVIROMENTAL 2925 E. 17TH ST. ODESSA TX, 79761	Project: STATE E 14 TB Project Number: PENROC Project Manager: CINDY CRAIN Fax To:	Reported: 18-Nov-22 15:37
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**SP - 1 (2')
 H225309-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	880		16.0	mg/kg	4	2111104	AC	11-Nov-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

S-04

Benzene*	<0.050		0.050	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Ethylbenzene*	1.33		0.050	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Total Xylenes*	6.17		0.150	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Total BTEX	7.50		0.300	mg/kg	50	2111013	JH	12-Nov-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			204 %	69.9-140		2111013	JH	12-Nov-22	8021B	
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Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	308		100	mg/kg	10	2111006	MS	11-Nov-22	8015B	
DRO >C10-C28*	17200		100	mg/kg	10	2111006	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	3880		100	mg/kg	10	2111006	MS	11-Nov-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			153 %	45.3-161		2111006	MS	11-Nov-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			365 %	46.3-178		2111006	MS	11-Nov-22	8015B	
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Analytical Results For:

CRAIN ENVIROMENTAL 2925 E. 17TH ST. ODESSA TX, 79761	Project: STATE E 14 TB Project Number: PENROC Project Manager: CINDY CRAIN Fax To:	Reported: 18-Nov-22 15:37
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SP - 1 (3')
H225309-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	1020		16.0	mg/kg	4	2111104	AC	11-Nov-22	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	<100		100	mg/kg	10	2111628	MS	17-Nov-22	8015B	
DRO >C10-C28*	8770		100	mg/kg	10	2111628	MS	17-Nov-22	8015B	
EXT DRO >C28-C36	2110		100	mg/kg	10	2111628	MS	17-Nov-22	8015B	
Surrogate: 1-Chlorooctane			137 %	45.3-161		2111628	MS	17-Nov-22	8015B	
Surrogate: 1-Chlorooctadecane			336 %	46.3-178		2111628	MS	17-Nov-22	8015B	

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Analytical Results For:

CRAIN ENVIROMENTAL 2925 E. 17TH ST. ODESSA TX, 79761	Project: STATE E 14 TB Project Number: PENROC Project Manager: CINDY CRAIN Fax To:	Reported: 18-Nov-22 15:37
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**SP - 1 (4')
H225309-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	224		16.0	mg/kg	4	2111104	AC	11-Nov-22	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2111628	MS	17-Nov-22	8015B	
DRO >C10-C28*	68.2		10.0	mg/kg	1	2111628	MS	17-Nov-22	8015B	
EXT DRO >C28-C36	30.4		10.0	mg/kg	1	2111628	MS	17-Nov-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			85.9 %	45.3-161		2111628	MS	17-Nov-22	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			101 %	46.3-178		2111628	MS	17-Nov-22	8015B	

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Analytical Results For:

CRAIN ENVIROMENTAL 2925 E. 17TH ST. ODESSA TX, 79761	Project: STATE E 14 TB Project Number: PENROC Project Manager: CINDY CRAIN Fax To:	Reported: 18-Nov-22 15:37
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**SP - 2 (0-6")
 H225309-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	2111104	AC	11-Nov-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111013	JH	12-Nov-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			89.2 %		69.9-140	2111013	JH	12-Nov-22	8021B	
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Petroleum Hydrocarbons by GC FID

S-06

GRO C6-C10*	<100		100	mg/kg	10	2111006	MS	11-Nov-22	8015B	
DRO >C10-C28*	10100		100	mg/kg	10	2111006	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	2870		100	mg/kg	10	2111006	MS	11-Nov-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			109 %		45.3-161	2111006	MS	11-Nov-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			309 %		46.3-178	2111006	MS	11-Nov-22	8015B	
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Analytical Results For:

CRAIN ENVIROMENTAL 2925 E. 17TH ST. ODESSA TX, 79761	Project: STATE E 14 TB Project Number: PENROC Project Manager: CINDY CRAIN Fax To:	Reported: 18-Nov-22 15:37
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**SP - 2 (1')
H225309-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	384		16.0	mg/kg	4	2111104	AC	11-Nov-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111013	JH	12-Nov-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			89.4 %		69.9-140	2111013	JH	12-Nov-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2111006	MS	15-Nov-22	8015B	
DRO >C10-C28*	163		10.0	mg/kg	1	2111006	MS	15-Nov-22	8015B	
EXT DRO >C28-C36	82.8		10.0	mg/kg	1	2111006	MS	15-Nov-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			91.7 %		45.3-161	2111006	MS	15-Nov-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			118 %		46.3-178	2111006	MS	15-Nov-22	8015B	
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Analytical Results For:

CRAIN ENVIROMENTAL 2925 E. 17TH ST. ODESSA TX, 79761	Project: STATE E 14 TB Project Number: PENROC Project Manager: CINDY CRAIN Fax To:	Reported: 18-Nov-22 15:37
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**SP - 2 (2')
H225309-09 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	576		16.0	mg/kg	4	2111036	GM	10-Nov-22	4500-Cl-B	QM-07
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111013	JH	12-Nov-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 85.0 % 69.9-140 2111013 JH 12-Nov-22 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2111006	MS	11-Nov-22	8015B	
DRO >C10-C28*	371		10.0	mg/kg	1	2111006	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	264		10.0	mg/kg	1	2111006	MS	11-Nov-22	8015B	

Surrogate: 1-Chlorooctane 102 % 45.3-161 2111006 MS 11-Nov-22 8015B

Surrogate: 1-Chlorooctadecane 95.2 % 46.3-178 2111006 MS 11-Nov-22 8015B

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Analytical Results For:

CRAIN ENVIROMENTAL 2925 E. 17TH ST. ODESSA TX, 79761	Project: STATE E 14 TB Project Number: PENROC Project Manager: CINDY CRAIN Fax To:	Reported: 18-Nov-22 15:37
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**SP - 2 (3')
H225309-10 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	448		16.0	mg/kg	4	2111036	GM	10-Nov-22	4500-CI-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2111628	MS	17-Nov-22	8015B	
DRO >C10-C28*	770		10.0	mg/kg	1	2111628	MS	17-Nov-22	8015B	
EXT DRO >C28-C36	401		10.0	mg/kg	1	2111628	MS	17-Nov-22	8015B	

Surrogate: 1-Chlorooctane			88.7 %	45.3-161		2111628	MS	17-Nov-22	8015B	
Surrogate: 1-Chlorooctadecane			168 %	46.3-178		2111628	MS	17-Nov-22	8015B	

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Analytical Results For:

CRAIN ENVIROMENTAL 2925 E. 17TH ST. ODESSA TX, 79761	Project: STATE E 14 TB Project Number: PENROC Project Manager: CINDY CRAIN Fax To:	Reported: 18-Nov-22 15:37
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**SP - 2 (4')
H225309-11 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	624		16.0	mg/kg	4	2111036	GM	10-Nov-22	4500-CI-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2111628	MS	17-Nov-22	8015B	
DRO >C10-C28*	123		10.0	mg/kg	1	2111628	MS	17-Nov-22	8015B	
EXT DRO >C28-C36	97.1		10.0	mg/kg	1	2111628	MS	17-Nov-22	8015B	

Surrogate: 1-Chlorooctane			85.9 %	45.3-161		2111628	MS	17-Nov-22	8015B	
Surrogate: 1-Chlorooctadecane			112 %	46.3-178		2111628	MS	17-Nov-22	8015B	

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Analytical Results For:

CRAIN ENVIROMENTAL 2925 E. 17TH ST. ODESSA TX, 79761	Project: STATE E 14 TB Project Number: PENROC Project Manager: CINDY CRAIN Fax To:	Reported: 18-Nov-22 15:37
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**SP - 2 (5')
H225309-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	240		16.0	mg/kg	4	2111715	GM	17-Nov-22	4500-CI-B	
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Analytical Results For:

CRAIN ENVIROMENTAL 2925 E. 17TH ST. ODESSA TX, 79761	Project: STATE E 14 TB Project Number: PENROC Project Manager: CINDY CRAIN Fax To:	Reported: 18-Nov-22 15:37
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**SP - 3 (0-6")
 H225309-13 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	96.0		16.0	mg/kg	4	2111036	GM	10-Nov-22	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111013	JH	12-Nov-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			87.3 %		69.9-140	2111013	JH	12-Nov-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2111006	MS	11-Nov-22	8015B	
DRO >C10-C28*	132		10.0	mg/kg	1	2111006	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	80.1		10.0	mg/kg	1	2111006	MS	11-Nov-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			111 %		45.3-161	2111006	MS	11-Nov-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			118 %		46.3-178	2111006	MS	11-Nov-22	8015B	
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Analytical Results For:

CRAIN ENVIROMENTAL 2925 E. 17TH ST. ODESSA TX, 79761	Project: STATE E 14 TB Project Number: PENROC Project Manager: CINDY CRAIN Fax To:	Reported: 18-Nov-22 15:37
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**SP - 3 (1')
H225309-14 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	96.0		16.0	mg/kg	4	2111036	GM	10-Nov-22	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111013	JH	12-Nov-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			84.7 %		69.9-140	2111013	JH	12-Nov-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2111006	MS	11-Nov-22	8015B	
DRO >C10-C28*	64.2		10.0	mg/kg	1	2111006	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2111006	MS	11-Nov-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			102 %		45.3-161	2111006	MS	11-Nov-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			110 %		46.3-178	2111006	MS	11-Nov-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CRAIN ENVIROMENTAL 2925 E. 17TH ST. ODESSA TX, 79761	Project: STATE E 14 TB Project Number: PENROC Project Manager: CINDY CRAIN Fax To:	Reported: 18-Nov-22 15:37
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**SP - 3 (2')
H225309-15 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	64.0		16.0	mg/kg	4	2111036	GM	10-Nov-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111013	JH	12-Nov-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			85.8 %		69.9-140	2111013	JH	12-Nov-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2111006	MS	11-Nov-22	8015B	
DRO >C10-C28*	536		10.0	mg/kg	1	2111006	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	174		10.0	mg/kg	1	2111006	MS	11-Nov-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			100 %		45.3-161	2111006	MS	11-Nov-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			104 %		46.3-178	2111006	MS	11-Nov-22	8015B	
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Analytical Results For:

CRAIN ENVIROMENTAL 2925 E. 17TH ST. ODESSA TX, 79761	Project: STATE E 14 TB Project Number: PENROC Project Manager: CINDY CRAIN Fax To:	Reported: 18-Nov-22 15:37
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**SP - 3 (3')
H225309-16 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	112		16.0	mg/kg	4	2111036	GM	10-Nov-22	4500-CI-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2111628	MS	17-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2111628	MS	17-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2111628	MS	17-Nov-22	8015B	
Surrogate: 1-Chlorooctane			92.1 %	45.3-161		2111628	MS	17-Nov-22	8015B	
Surrogate: 1-Chlorooctadecane			101 %	46.3-178		2111628	MS	17-Nov-22	8015B	

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Analytical Results For:

CRAIN ENVIROMENTAL 2925 E. 17TH ST. ODESSA TX, 79761	Project: STATE E 14 TB Project Number: PENROC Project Manager: CINDY CRAIN Fax To:	Reported: 18-Nov-22 15:37
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**SP - 3 (4')
H225309-17 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	176		16.0	mg/kg	4	2111036	GM	10-Nov-22	4500-CI-B	
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Analytical Results For:

CRAIN ENVIROMENTAL 2925 E. 17TH ST. ODESSA TX, 79761	Project: STATE E 14 TB Project Number: PENROC Project Manager: CINDY CRAIN Fax To:	Reported: 18-Nov-22 15:37
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**SP - 4 (0-6")
 H225309-19 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	64.0		16.0	mg/kg	4	2111036	GM	10-Nov-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111013	JH	12-Nov-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			89.6 %	69.9-140		2111013	JH	12-Nov-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2111006	MS	11-Nov-22	8015B	
DRO >C10-C28*	16.2		10.0	mg/kg	1	2111006	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	11.1		10.0	mg/kg	1	2111006	MS	11-Nov-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			97.6 %	45.3-161		2111006	MS	11-Nov-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			101 %	46.3-178		2111006	MS	11-Nov-22	8015B	
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Analytical Results For:

CRAIN ENVIROMENTAL 2925 E. 17TH ST. ODESSA TX, 79761	Project: STATE E 14 TB Project Number: PENROC Project Manager: CINDY CRAIN Fax To:	Reported: 18-Nov-22 15:37
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**SP - 4 (1')
H225309-20 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	2111036	GM	10-Nov-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2111013	JH	12-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111013	JH	12-Nov-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			87.9 %		69.9-140	2111013	JH	12-Nov-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2111006	MS	11-Nov-22	8015B	
DRO >C10-C28*	14.6		10.0	mg/kg	1	2111006	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2111006	MS	11-Nov-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			96.3 %		45.3-161	2111006	MS	11-Nov-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			101 %		46.3-178	2111006	MS	11-Nov-22	8015B	
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Analytical Results For:

CRAIN ENVIROMENTAL 2925 E. 17TH ST. ODESSA TX, 79761	Project: STATE E 14 TB Project Number: PENROC Project Manager: CINDY CRAIN Fax To:	Reported: 18-Nov-22 15:37
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**SP - 4 (2')
 H225309-21 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	2111036	GM	10-Nov-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2111023	JH	13-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111023	JH	13-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2111023	JH	13-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2111023	JH	13-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111023	JH	13-Nov-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.7 %		69.9-140	2111023	JH	13-Nov-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2111006	MS	11-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2111006	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2111006	MS	11-Nov-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			104 %		45.3-161	2111006	MS	11-Nov-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			110 %		46.3-178	2111006	MS	11-Nov-22	8015B	
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Analytical Results For:

CRAIN ENVIROMENTAL 2925 E. 17TH ST. ODESSA TX, 79761	Project: STATE E 14 TB Project Number: PENROC Project Manager: CINDY CRAIN Fax To:	Reported: 18-Nov-22 15:37
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**SP - 4 (3')
 H225309-22 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	48.0		16.0	mg/kg	4	2111036	GM	10-Nov-22	4500-CI-B	
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Analytical Results For:

CRAIN ENVIROMENTAL 2925 E. 17TH ST. ODESSA TX, 79761	Project: STATE E 14 TB Project Number: PENROC Project Manager: CINDY CRAIN Fax To:	Reported: 18-Nov-22 15:37
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**SP - 4 (4')
H225309-23 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	80.0		16.0	mg/kg	4	2111036	GM	10-Nov-22	4500-CI-B	
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Analytical Results For:

CRAIN ENVIROMENTAL 2925 E. 17TH ST. ODESSA TX, 79761	Project: STATE E 14 TB Project Number: PENROC Project Manager: CINDY CRAIN Fax To:	Reported: 18-Nov-22 15:37
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2111036 - 1:4 DI Water

Blank (2111036-BLK1)				Prepared & Analyzed: 10-Nov-22						
Chloride	ND	16.0	mg/kg							
LCS (2111036-BS1)				Prepared & Analyzed: 10-Nov-22						
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (2111036-BSD1)				Prepared & Analyzed: 10-Nov-22						
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

Batch 2111104 - 1:4 DI Water

Blank (2111104-BLK1)				Prepared & Analyzed: 11-Nov-22						
Chloride	ND	16.0	mg/kg							
LCS (2111104-BS1)				Prepared & Analyzed: 11-Nov-22						
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (2111104-BSD1)				Prepared & Analyzed: 11-Nov-22						
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

Batch 2111715 - 1:4 DI Water

Blank (2111715-BLK1)				Prepared & Analyzed: 17-Nov-22						
Chloride	ND	16.0	mg/kg							
LCS (2111715-BS1)				Prepared & Analyzed: 17-Nov-22						
Chloride	416	16.0	mg/kg	400		104	80-120			

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Analytical Results For:

CRAIN ENVIROMENTAL 2925 E. 17TH ST. ODESSA TX, 79761	Project: STATE E 14 TB Project Number: PENROC Project Manager: CINDY CRAIN Fax To:	Reported: 18-Nov-22 15:37
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2111715 - 1:4 DI Water

LCS Dup (2111715-BSD1)

Prepared & Analyzed: 17-Nov-22

Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	
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Analytical Results For:

CRAIN ENVIROMENTAL
2925 E. 17TH ST.
ODESSA TX, 79761

Project: STATE E 14 TB
Project Number: PENROC
Project Manager: CINDY CRAIN
Fax To:

Reported:
18-Nov-22 15:37

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2111013 - Volatiles**Blank (2111013-BLK1)**

Prepared: 10-Nov-22 Analyzed: 12-Nov-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>ND</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>88.5</i>	<i>69.9-140</i>			

LCS (2111013-BS1)

Prepared: 10-Nov-22 Analyzed: 12-Nov-22

Benzene	1.67	0.050	mg/kg	2.00		83.5	83.4-122			
Toluene	1.76	0.050	mg/kg	2.00		88.1	84.2-126			
Ethylbenzene	1.72	0.050	mg/kg	2.00		85.8	84.2-121			
m,p-Xylene	3.57	0.100	mg/kg	4.00		89.2	89.9-126			BS-3
o-Xylene	1.66	0.050	mg/kg	2.00		82.9	84.3-123			BS-3
Total Xylenes	5.22	0.150	mg/kg	6.00		87.1	89.1-124			BS-3
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.0428</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>85.6</i>	<i>69.9-140</i>			

LCS Dup (2111013-BSD1)

Prepared: 10-Nov-22 Analyzed: 12-Nov-22

Benzene	1.93	0.050	mg/kg	2.00		96.4	83.4-122	14.4	12.6	QR-04
Toluene	2.03	0.050	mg/kg	2.00		101	84.2-126	14.1	13.3	QR-04
Ethylbenzene	1.97	0.050	mg/kg	2.00		98.4	84.2-121	13.7	13.9	
m,p-Xylene	4.08	0.100	mg/kg	4.00		102	89.9-126	13.5	13.6	
o-Xylene	1.91	0.050	mg/kg	2.00		95.5	84.3-123	14.1	14.1	
Total Xylenes	5.99	0.150	mg/kg	6.00		99.9	89.1-124	13.7	13.4	QR-04
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.0415</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>83.1</i>	<i>69.9-140</i>			

Batch 2111023 - Volatiles**Blank (2111023-BLK1)**

Prepared: 10-Nov-22 Analyzed: 13-Nov-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CRAIN ENVIROMENTAL
2925 E. 17TH ST.
ODESSA TX, 79761

Project: STATE E 14 TB
Project Number: PENROC
Project Manager: CINDY CRAIN
Fax To:

Reported:
18-Nov-22 15:37

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2111023 - Volatiles**Blank (2111023-BLK1)**

Prepared: 10-Nov-22 Analyzed: 13-Nov-22

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		98.2	69.9-140			

LCS (2111023-BS1)

Prepared: 10-Nov-22 Analyzed: 13-Nov-22

Benzene	1.99	0.050	mg/kg	2.00		99.4	83.4-122			
Toluene	2.22	0.050	mg/kg	2.00		111	84.2-126			
Ethylbenzene	2.07	0.050	mg/kg	2.00		103	84.2-121			
m,p-Xylene	4.18	0.100	mg/kg	4.00		105	89.9-126			
o-Xylene	2.05	0.050	mg/kg	2.00		103	84.3-123			
Total Xylenes	6.24	0.150	mg/kg	6.00		104	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0507		mg/kg	0.0500		101	69.9-140			

LCS Dup (2111023-BSD1)

Prepared: 10-Nov-22 Analyzed: 13-Nov-22

Benzene	1.93	0.050	mg/kg	2.00		96.6	83.4-122	2.90	12.6	
Toluene	2.18	0.050	mg/kg	2.00		109	84.2-126	2.08	13.3	
Ethylbenzene	2.05	0.050	mg/kg	2.00		103	84.2-121	0.803	13.9	
m,p-Xylene	4.10	0.100	mg/kg	4.00		103	89.9-126	1.93	13.6	
o-Xylene	2.01	0.050	mg/kg	2.00		101	84.3-123	2.08	14.1	
Total Xylenes	6.12	0.150	mg/kg	6.00		102	89.1-124	1.98	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0501		mg/kg	0.0500		100	69.9-140			

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CRAIN ENVIROMENTAL 2925 E. 17TH ST. ODESSA TX, 79761	Project: STATE E 14 TB Project Number: PENROC Project Manager: CINDY CRAIN Fax To:	Reported: 18-Nov-22 15:37
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2111006 - General Prep - Organics

Blank (2111006-BLK1)		Prepared & Analyzed: 10-Nov-22								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	48.7		mg/kg	50.0		97.3	45.3-161			
Surrogate: 1-Chlorooctadecane	51.9		mg/kg	50.0		104	46.3-178			

LCS (2111006-BS1)		Prepared & Analyzed: 10-Nov-22								
GRO C6-C10	197	10.0	mg/kg	200		98.7	76.8-124			
DRO >C10-C28	192	10.0	mg/kg	200		96.1	74.9-127			
Total TPH C6-C28	390	10.0	mg/kg	400		97.4	77.5-124			
Surrogate: 1-Chlorooctane	51.5		mg/kg	50.0		103	45.3-161			
Surrogate: 1-Chlorooctadecane	51.8		mg/kg	50.0		104	46.3-178			

LCS Dup (2111006-BSD1)		Prepared & Analyzed: 10-Nov-22								
GRO C6-C10	196	10.0	mg/kg	200		98.2	76.8-124	0.466	17.2	
DRO >C10-C28	194	10.0	mg/kg	200		97.1	74.9-127	0.945	18.6	
Total TPH C6-C28	391	10.0	mg/kg	400		97.6	77.5-124	0.233	17.6	
Surrogate: 1-Chlorooctane	51.2		mg/kg	50.0		102	45.3-161			
Surrogate: 1-Chlorooctadecane	51.7		mg/kg	50.0		103	46.3-178			

Batch 2111628 - General Prep - Organics

Blank (2111628-BLK1)		Prepared: 16-Nov-22 Analyzed: 17-Nov-22								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	53.0		mg/kg	50.0		106	45.3-161			
Surrogate: 1-Chlorooctadecane	58.3		mg/kg	50.0		117	46.3-178			

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Analytical Results For:

CRAIN ENVIROMENTAL 2925 E. 17TH ST. ODESSA TX, 79761	Project: STATE E 14 TB Project Number: PENROC Project Manager: CINDY CRAIN Fax To:	Reported: 18-Nov-22 15:37
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2111628 - General Prep - Organics

LCS (2111628-BS1)		Prepared: 16-Nov-22 Analyzed: 17-Nov-22								
GRO C6-C10	211	10.0	mg/kg	200		106	76.8-124			
DRO >C10-C28	188	10.0	mg/kg	200		93.9	74.9-127			
Total TPH C6-C28	399	10.0	mg/kg	400		99.7	77.5-124			
Surrogate: 1-Chlorooctane	60.6		mg/kg	50.0		121	45.3-161			
Surrogate: 1-Chlorooctadecane	65.1		mg/kg	50.0		130	46.3-178			
LCS Dup (2111628-BSD1)		Prepared: 16-Nov-22 Analyzed: 17-Nov-22								
GRO C6-C10	202	10.0	mg/kg	200		101	76.8-124	4.39	17.2	
DRO >C10-C28	190	10.0	mg/kg	200		95.2	74.9-127	1.34	18.6	
Total TPH C6-C28	392	10.0	mg/kg	400		98.1	77.5-124	1.65	17.6	
Surrogate: 1-Chlorooctane	53.8		mg/kg	50.0		108	45.3-161			
Surrogate: 1-Chlorooctadecane	62.8		mg/kg	50.0		126	46.3-178			

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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-04 The RPD for the BS/BSD was outside of historical limits.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Crain Environmental</u>		BILL TO		ANALYSIS REQUEST					
Project Manager: <u>Cindy Crain</u>		P.O. #:							
Address: <u>2925 E. 17th St.</u>		Company: <u>Penroe</u>							
City: <u>Odessa</u> State: <u>TX</u> Zip: <u>79761</u>		Attn: <u>Merch Merchant</u>							
Phone #: <u>(575) 441-7244</u> Fax #:		Address:							
Project #: <u>-</u> Project Owner: <u>Penroe</u>		City: <u>Hobbs</u>							
Project Name: <u>State E 14 TB</u>		State: Zip:							
Project Location: <u>Lea Co., NM</u>		Phone #: <u>(575) 631-7450</u>							
Sampler Name: <u>Cindy Crain</u>		Fax #:							

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.		SAMPLING		TPH 8015M	BTEX	Chlorides	HOLD
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:				
<u>H225309</u>															
<u>1</u>	<u>SP-1 (0-6")</u>	<u>C 1</u>			<u>X</u>				<u>X</u>	<u>11/9/22</u>	<u>1055</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>2</u>	<u>SP-1 (1")</u>										<u>1100</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>3</u>	<u>SP-1 (2")</u>										<u>1104</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>4</u>	<u>SP-1 (3")</u>										<u>1107</u>	<u>✓</u>	<u>X</u>	<u>X</u>	
<u>5</u>	<u>SP-1 (4")</u>										<u>1110</u>	<u>✓</u>	<u>X</u>	<u>X</u>	
<u>6</u>	<u>SP-1 (5")</u>										<u>1115</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>7</u>	<u>SP-2 (0-6")</u>										<u>1116</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>8</u>	<u>SP-2 (1")</u>										<u>1117</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>7</u>	<u>SP-2 (2")</u>										<u>1122</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>10</u>	<u>SP-2 (3")</u>										<u>1125</u>	<u>✓</u>	<u>X</u>	<u>X</u>	

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Relinquished By: <u>Cindy Crain</u>	Date: <u>11-9-22</u>	Received By: <u>Tamera Aldrete</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Time: <u>1618</u>			All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS:
Time:			
Delivered By: (Circle One)	Observed Temp. °C <u>6.3</u>	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush
Sampler - UPS - Bus - Other:	Corrected Temp. °C <u>5.7</u>	CHECKED BY: (Initials) <u>V.O.</u>	<input checked="" type="checkbox"/> Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C
			Thermometer ID #113 Correction Factor -0.6°C

FORM-006 R 3.3 07/16/22

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

P. 2 of 2

Company Name: <u>Crain Environmental</u>		BILL TO		ANALYSIS REQUEST	
Project Manager: <u>Cindy Crain</u>		P.O. #:			
Address: <u>2925 E. 17th St.</u>		Company: <u>Penroc</u>			
City: <u>Odessa</u> State: <u>TX</u> Zip: <u>79761</u>		Attn: <u>Merch Merchant</u>			
Phone #: <u>(575) 441-7244</u> Fax #: <u>-</u>		Address:			
Project #: <u>-</u> Project Owner: <u>Penroc</u>		City: <u>Hobbs</u>			
Project Name: <u>State E 14 TB</u>		State: Zip:			
Project Location: <u>Lea Co., NM</u>		Phone #: <u>(575) 631-7450</u>			
Sampler Name: <u>Cindy Crain</u>		Fax #:			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	TPH 8015 M	BTEX	Chlorides	HOLD
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER						
H225309																	
11	SP-2 (4')	C1			X				X			11/9/22	1130	✓	✓	✓	11/14/22
12	SP-2 (5')												1135				
13	SP-3 (0-6")												1137	X	X	X	
14	SP-3 (1')												1139	X	X	X	
15	SP-3 (2')												1141	X	X	X	
16	SP-3 (3')												1145	✓	X	X	
17	SP-3 (4')												1150	X	X	X	
18	SP-3 (5')												1159	X	X	X	
19	SP-4 (0-6")												1203	X	X	X	
20	SP-4 (1')												1205	X	X	X	

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Relinquished By: <u>Cindy Crain</u>	Date: <u>11-9-22</u>	Received By: <u>Jamora Reddy</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
	Time: <u>1618</u>		All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		
Delivered By: (Circle One)	Observed Temp. °C <u>6.3</u>	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush
Sampler - UPS - Bus - Other:	Corrected Temp. °C <u>5.7</u>	CHECKED BY: (Initials) <u>T.O.</u>	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No
			Thermometer ID #113 Correction Factor -0.6°C <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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(575) 393-2326 FAX (575) 393-2476

Company Name: <u>Crain Environmental</u>		BILL TO		ANALYSIS REQUEST			
Project Manager: <u>Cindy Crain</u>		P.O. #:					
Address: <u>2925 E. 17th St.</u>		Company: <u>Penroc</u>					
City: <u>Odessa</u> State: <u>TX</u> Zip: <u>79761</u>		Attn: <u>Merch Merchant</u>					
Phone #: <u>(575) 441-7244</u> Fax #: <u>-</u>		Address:					
Project #: <u>-</u> Project Owner: <u>Penroc</u>		City: <u>Hobbs</u>					
Project Name: <u>State E 14 TB</u>		State: <u>-</u> Zip: <u>-</u>					
Project Location: <u>Lea Co., NM</u>		Phone #: <u>(575) 631-7450</u>					
Sampler Name: <u>Cindy Crain</u>		Fax #:					

FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	TPH 8015 M	BTEX	Chlorides	HOLD
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :						
	H225309																		
	21	SP-4 (2)	↓	↓		X					X			11/4/22	1208	X	X		
	22	SP-4 (3)	↓	↓											1214		X		
	23	SP-4 (4)	↓	↓											1222		X		
	24	SP-4 (5)	↓	↓											1230			X	

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Relinquished By: <u>Cindy Crain</u>	Date: <u>11.9.22</u>	Received By: <u>Tamara [Signature]</u>	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address:
Delivered By: (Circle One)	Observed Temp. °C <u>6.3</u>	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	REMARKS:
Sampler - UPS - Bus - Other:	Corrected Temp. °C <u>5.7</u>	CHECKED BY: (Initials) <u>TC</u>	Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush
			Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
			Thermometer ID #113 Correction Factor -0.6°C
			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C



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

May 19, 2023

MIKE HOLDER

ELITE ENVIRONMENTAL SERVICES

P.O. BOX 735

GAINSVILLE, TX 76241

RE: STATE E 14 STRAWN

Enclosed are the results of analyses for samples received by the laboratory on 05/16/23 10:45.

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 style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ELITE ENVIRONMENTAL SERVICES
 MIKE HOLDER
 P.O. BOX 735
 GAINSVILLE TX, 76241
 Fax To:

Received:	05/16/2023	Sampling Date:	05/14/2023
Reported:	05/19/2023	Sampling Type:	Soil
Project Name:	STATE E 14 STRAWN	Sampling Condition:	Cool & Intact
Project Number:	PENROC-LEA CO.	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: 1 A (H232436-01)

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	05/18/2023	ND	2.23	111	2.00	4.57	
Toluene*	<0.050	0.050	05/18/2023	ND	2.17	109	2.00	5.23	
Ethylbenzene*	<0.050	0.050	05/18/2023	ND	2.14	107	2.00	4.49	
Total Xylenes*	<0.150	0.150	05/18/2023	ND	6.53	109	6.00	3.54	
Total BTEX	<0.300	0.300	05/18/2023	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	05/17/2023	ND	432	108	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	05/18/2023	ND	180	90.0	200	0.865	
DRO >C10-C28*	82.7	10.0	05/18/2023	ND	167	83.5	200	0.184	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ELITE ENVIRONMENTAL SERVICES
 MIKE HOLDER
 P.O. BOX 735
 GAINSVILLE TX, 76241
 Fax To:

Received:	05/16/2023	Sampling Date:	05/14/2023
Reported:	05/19/2023	Sampling Type:	Soil
Project Name:	STATE E 14 STRAWN	Sampling Condition:	Cool & Intact
Project Number:	PENROC-LEA CO.	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: 2 A (H232436-02)

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	05/18/2023	ND	2.23	111	2.00	4.57	
Toluene*	<0.050	0.050	05/18/2023	ND	2.17	109	2.00	5.23	
Ethylbenzene*	<0.050	0.050	05/18/2023	ND	2.14	107	2.00	4.49	
Total Xylenes*	<0.150	0.150	05/18/2023	ND	6.53	109	6.00	3.54	
Total BTEX	<0.300	0.300	05/18/2023	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	32.0	16.0	05/17/2023	ND	432	108	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	05/18/2023	ND	180	90.0	200	0.865	
DRO >C10-C28*	70	10.0	05/18/2023	ND	167	83.5	200	0.184	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 84.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.1 % 49.1-148

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Analytical Results For:

ELITE ENVIRONMENTAL SERVICES
 MIKE HOLDER
 P.O. BOX 735
 GAINSVILLE TX, 76241
 Fax To:

Received:	05/16/2023	Sampling Date:	05/14/2023
Reported:	05/19/2023	Sampling Type:	Soil
Project Name:	STATE E 14 STRAWN	Sampling Condition:	Cool & Intact
Project Number:	PENROC-LEA CO.	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: 3 A (H232436-03)

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	05/18/2023	ND	2.23	111	2.00	4.57	
Toluene*	<0.050	0.050	05/18/2023	ND	2.17	109	2.00	5.23	
Ethylbenzene*	<0.050	0.050	05/18/2023	ND	2.14	107	2.00	4.49	
Total Xylenes*	<0.150	0.150	05/18/2023	ND	6.53	109	6.00	3.54	
Total BTEX	<0.300	0.300	05/18/2023	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	48.0	16.0	05/17/2023	ND	432	108	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	05/18/2023	ND	180	90.0	200	0.865	
DRO >C10-C28*	85	10.0	05/18/2023	ND	167	83.5	200	0.184	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ELITE ENVIRONMENTAL SERVICES
 MIKE HOLDER
 P.O. BOX 735
 GAINSVILLE TX, 76241
 Fax To:

Received:	05/16/2023	Sampling Date:	05/14/2023
Reported:	05/19/2023	Sampling Type:	Soil
Project Name:	STATE E 14 STRAWN	Sampling Condition:	Cool & Intact
Project Number:	PENROC-LEA CO.	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: 4 A (H232436-04)

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	05/18/2023	ND	2.23	111	2.00	4.57	
Toluene*	<0.050	0.050	05/18/2023	ND	2.17	109	2.00	5.23	
Ethylbenzene*	<0.050	0.050	05/18/2023	ND	2.14	107	2.00	4.49	
Total Xylenes*	<0.150	0.150	05/18/2023	ND	6.53	109	6.00	3.54	
Total BTEX	<0.300	0.300	05/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	80.0	16.0	05/17/2023	ND	432	108	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	05/18/2023	ND	180	90.0	200	0.865	
DRO >C10-C28*	54	10.0	05/18/2023	ND	167	83.5	200	0.184	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ELITE ENVIRONMENTAL SERVICES
 MIKE HOLDER
 P.O. BOX 735
 GAINSVILLE TX, 76241
 Fax To:

Received:	05/16/2023	Sampling Date:	05/14/2023
Reported:	05/19/2023	Sampling Type:	Soil
Project Name:	STATE E 14 STRAWN	Sampling Condition:	Cool & Intact
Project Number:	PENROC-LEA CO.	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: 5 A (H232436-05)

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	05/18/2023	ND	2.23	111	2.00	4.57	
Toluene*	<0.050	0.050	05/18/2023	ND	2.17	109	2.00	5.23	
Ethylbenzene*	<0.050	0.050	05/18/2023	ND	2.14	107	2.00	4.49	
Total Xylenes*	<0.150	0.150	05/18/2023	ND	6.53	109	6.00	3.54	
Total BTEX	<0.300	0.300	05/18/2023	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	16.0	16.0	05/17/2023	ND	432	108	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	05/18/2023	ND	180	90.0	200	0.865	
DRO >C10-C28*	55	10.0	05/18/2023	ND	167	83.5	200	0.184	
EXT DRO >C28-C36	28.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ELITE ENVIRONMENTAL SERVICES
 MIKE HOLDER
 P.O. BOX 735
 GAINSVILLE TX, 76241
 Fax To:

Received:	05/16/2023	Sampling Date:	05/14/2023
Reported:	05/19/2023	Sampling Type:	Soil
Project Name:	STATE E 14 STRAWN	Sampling Condition:	Cool & Intact
Project Number:	PENROC-LEA CO.	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: 6 A (H232436-06)

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	05/18/2023	ND	2.23	111	2.00	4.57	
Toluene*	<0.050	0.050	05/18/2023	ND	2.17	109	2.00	5.23	
Ethylbenzene*	<0.050	0.050	05/18/2023	ND	2.14	107	2.00	4.49	
Total Xylenes*	<0.150	0.150	05/18/2023	ND	6.53	109	6.00	3.54	
Total BTEX	<0.300	0.300	05/18/2023	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	64.0	16.0	05/17/2023	ND	432	108	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	05/18/2023	ND	180	90.0	200	0.865	
DRO >C10-C28*	58	10.0	05/18/2023	ND	167	83.5	200	0.184	
EXT DRO >C28-C36	25.3	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ELITE ENVIRONMENTAL SERVICES
 MIKE HOLDER
 P.O. BOX 735
 GAINSVILLE TX, 76241
 Fax To:

Received:	05/16/2023	Sampling Date:	05/14/2023
Reported:	05/19/2023	Sampling Type:	Soil
Project Name:	STATE E 14 STRAWN	Sampling Condition:	Cool & Intact
Project Number:	PENROC-LEA CO.	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: 7 A (H232436-07)

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	05/18/2023	ND	2.23	111	2.00	4.57	
Toluene*	<0.050	0.050	05/18/2023	ND	2.17	109	2.00	5.23	
Ethylbenzene*	<0.050	0.050	05/18/2023	ND	2.14	107	2.00	4.49	
Total Xylenes*	<0.150	0.150	05/18/2023	ND	6.53	109	6.00	3.54	
Total BTEX	<0.300	0.300	05/18/2023	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	48.0	16.0	05/17/2023	ND	432	108	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	05/18/2023	ND	180	90.0	200	0.865	
DRO >C10-C28*	67	10.0	05/18/2023	ND	167	83.5	200	0.184	
EXT DRO >C28-C36	21.9	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ELITE ENVIRONMENTAL SERVICES
 MIKE HOLDER
 P.O. BOX 735
 GAINSVILLE TX, 76241
 Fax To:

Received:	05/16/2023	Sampling Date:	05/14/2023
Reported:	05/19/2023	Sampling Type:	Soil
Project Name:	STATE E 14 STRAWN	Sampling Condition:	Cool & Intact
Project Number:	PENROC-LEA CO.	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: 8 A (H232436-08)

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	05/18/2023	ND	2.23	111	2.00	4.57	
Toluene*	<0.050	0.050	05/18/2023	ND	2.17	109	2.00	5.23	
Ethylbenzene*	<0.050	0.050	05/18/2023	ND	2.14	107	2.00	4.49	
Total Xylenes*	<0.150	0.150	05/18/2023	ND	6.53	109	6.00	3.54	
Total BTEX	<0.300	0.300	05/18/2023	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	144	16.0	05/17/2023	ND	416	104	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	05/18/2023	ND	180	90.0	200	0.865	
DRO >C10-C28*	58	10.0	05/18/2023	ND	167	83.5	200	0.184	
EXT DRO >C28-C36	18.2	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 78.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- 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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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1061

Company Name: <u>Elite Environmental</u>		BILL TO		ANALYSIS REQUEST									
Project Manager: <u>Mike Holder</u>		P.O. #: <u>PenROC - Lee Co.</u>											
Address: <u>P.O. Box 735</u>		Company: <u>Elite</u>											
City: <u>GAINESVILLE</u> State: <u>TX</u> Zip: <u>76241</u>		Attn: <u>AP</u>											
Phone #: <u>918-740-2266</u> Fax #:		Address: <u>PO. Box 735</u>											
Project #: <u>PenROC - Lee Co.</u> Project Owner: <u>PenROC</u>		City: <u>GAINESVILLE</u>											
Project Name: <u>State E14 Strawn</u>		State: <u>TX</u> Zip: <u>76241</u>											
Project Location: <u>Lee County, NM</u>		Phone #:											
Sampler Name: <u>UAD02</u>		Fax #:											

FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.			SAMPLING		DATE	TIME	TPH - 8015 m	BTEX	4500 Chlorides
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :						
	<u>H232436</u>																		
	<u>1</u>	<u>1 A</u>	<u>C</u>	<u>1</u>			<u>X</u>							<u>5-14-23</u>	<u>9:05</u>	<u>X</u>	<u>X</u>	<u>X</u>	
	<u>2</u>	<u>2 A</u>	<u>C</u>	<u>1</u>			<u>X</u>							<u>5-14-23</u>	<u>9:10</u>	<u>X</u>	<u>X</u>	<u>X</u>	
	<u>3</u>	<u>3 A</u>	<u>C</u>	<u>1</u>			<u>X</u>							<u>5-14-23</u>	<u>9:15</u>	<u>X</u>	<u>X</u>	<u>X</u>	
	<u>4</u>	<u>4 A</u>	<u>C</u>	<u>1</u>			<u>X</u>							<u>5-14-23</u>	<u>9:20</u>	<u>X</u>	<u>X</u>	<u>X</u>	
	<u>5</u>	<u>5 A</u>	<u>C</u>	<u>1</u>			<u>X</u>							<u>5-14-23</u>	<u>9:25</u>	<u>X</u>	<u>X</u>	<u>X</u>	
	<u>6</u>	<u>6 A</u>	<u>C</u>	<u>1</u>			<u>X</u>							<u>5-14-23</u>	<u>9:30</u>	<u>X</u>	<u>X</u>	<u>X</u>	
	<u>7</u>	<u>7 A</u>	<u>C</u>	<u>1</u>			<u>X</u>							<u>5-14-23</u>	<u>9:35</u>	<u>X</u>	<u>X</u>	<u>X</u>	
	<u>8</u>	<u>8 A</u>	<u>C</u>	<u>1</u>			<u>X</u>							<u>5-14-23</u>	<u>9:40</u>	<u>X</u>	<u>X</u>	<u>X</u>	

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Relinquished By: <u>Mike Holder</u>	Date: <u>5-16-23</u>	Received By: <u>[Signature]</u>	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:
	Time: <u>1045</u>		All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		<u>added 5/17/23</u>
Delivered By: (Circle One)	Observed Temp. °C <u>6.3</u>	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time: <u>2 Day</u> Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>
Sampler - UPS - Bus - Other:	Corrected Temp. °C <u>5.7</u>	CHECKED BY: (Initials) <u>Y.O.</u>	<input checked="" type="checkbox"/> Bacteria (only) Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Thermometer ID #113 Correction Factor -0.6°C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

June 09, 2023

MIKE HOLDER
ELITE ENVIRONMENTAL SERVICES
P.O. BOX 735
GAINSVILLE, TX 76241

RE: STATE E 14 STRAWN

Enclosed are the results of analyses for samples received by the laboratory on 06/05/23 11:35.

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/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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,

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ELITE ENVIRONMENTAL SERVICES P.O. BOX 735 GAINSVILLE TX, 76241	Project: STATE E 14 STRAWN Project Number: PENROC Project Manager: MIKE HOLDER Fax To:	Reported: 09-Jun-23 09:13
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW - 1	H232828-01	Soil	05-Jun-23 10:15	05-Jun-23 11:35
SW - 2	H232828-02	Soil	05-Jun-23 10:20	05-Jun-23 11:35
SW - 3	H232828-03	Soil	05-Jun-23 10:22	05-Jun-23 11:35
SW - 4	H232828-04	Soil	05-Jun-23 10:25	05-Jun-23 11:35
SW - 5	H232828-05	Soil	05-Jun-23 10:30	05-Jun-23 11:35
SW - 6	H232828-06	Soil	05-Jun-23 10:35	05-Jun-23 11:35
SW - 7	H232828-07	Soil	05-Jun-23 10:40	05-Jun-23 11:35
SW - 8	H232828-08	Soil	05-Jun-23 10:45	05-Jun-23 11:35
SP - 3 - 2'	H232828-09	Soil	05-Jun-23 10:48	05-Jun-23 11:35
SP - 1 - 2'	H232828-10	Soil	05-Jun-23 10:15	05-Jun-23 11:35
SP - 1 - 3'	H232828-11	Soil	05-Jun-23 10:20	05-Jun-23 11:35
SP - 1 - 4'	H232828-12	Soil	05-Jun-23 10:24	05-Jun-23 11:35
SP - 2 - 2'	H232828-13	Soil	05-Jun-23 10:28	05-Jun-23 11:35
SP - 2 - 3'	H232828-14	Soil	05-Jun-23 10:32	05-Jun-23 11:35
SP - 2 - 4'	H232828-15	Soil	05-Jun-23 10:35	05-Jun-23 11:35

06/07/23 - Client added chloride to sample -09 (see COC). This is the revised report and will replace the one sent earlier today, 06/07/23.

06/09/23 - Client added TPH to sample -09 (see COC). This is the 2nd revision of the report and will replace the one sent on 06/07/23.

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ELITE ENVIRONMENTAL SERVICES
P.O. BOX 735
GAINSVILLE TX, 76241

Project: STATE E 14 STRAWN
Project Number: PENROC
Project Manager: MIKE HOLDER
Fax To:

Reported:
09-Jun-23 09:13

SW - 1**H232828-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	3060611	AC	06-Jun-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3060529	MS	05-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3060529	MS	05-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3060529	MS	05-Jun-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3060529	MS	05-Jun-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3060529	MS	05-Jun-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			104 %	71.5-134		3060529	MS	05-Jun-23	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3060531	MS	05-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3060531	MS	05-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3060531	MS	05-Jun-23	8015B	
Surrogate: 1-Chlorooctane			67.9 %	48.2-134		3060531	MS	05-Jun-23	8015B	
Surrogate: 1-Chlorooctadecane			68.2 %	49.1-148		3060531	MS	05-Jun-23	8015B	

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ELITE ENVIRONMENTAL SERVICES P.O. BOX 735 GAINSVILLE TX, 76241	Project: STATE E 14 STRAWN Project Number: PENROC Project Manager: MIKE HOLDER Fax To:	Reported: 09-Jun-23 09:13
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SW - 2

H232828-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	3060611	AC	06-Jun-23	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3060529	MS	05-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3060529	MS	05-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3060529	MS	05-Jun-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3060529	MS	05-Jun-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3060529	MS	05-Jun-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	71.5-134		3060529	MS	05-Jun-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3060531	MS	05-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3060531	MS	05-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3060531	MS	05-Jun-23	8015B	

Surrogate: 1-Chlorooctane			86.3 %	48.2-134		3060531	MS	05-Jun-23	8015B	
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Surrogate: 1-Chlorooctadecane			89.6 %	49.1-148		3060531	MS	05-Jun-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ELITE ENVIRONMENTAL SERVICES P.O. BOX 735 GAINSVILLE TX, 76241	Project: STATE E 14 STRAWN Project Number: PENROC Project Manager: MIKE HOLDER Fax To:	Reported: 09-Jun-23 09:13
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SW - 3

H232828-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	3060611	AC	06-Jun-23	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3060529	MS	05-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3060529	MS	05-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3060529	MS	05-Jun-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3060529	MS	05-Jun-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3060529	MS	05-Jun-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5-134		3060529	MS	05-Jun-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3060531	MS	05-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3060531	MS	05-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3060531	MS	05-Jun-23	8015B	

Surrogate: 1-Chlorooctane			78.9 %	48.2-134		3060531	MS	05-Jun-23	8015B	
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Surrogate: 1-Chlorooctadecane			81.3 %	49.1-148		3060531	MS	05-Jun-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ELITE ENVIRONMENTAL SERVICES P.O. BOX 735 GAINSVILLE TX, 76241	Project: STATE E 14 STRAWN Project Number: PENROC Project Manager: MIKE HOLDER Fax To:	Reported: 09-Jun-23 09:13
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SW - 4

H232828-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	3060611	AC	06-Jun-23	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3060529	MS	05-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3060529	MS	05-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3060529	MS	05-Jun-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3060529	MS	05-Jun-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3060529	MS	05-Jun-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	71.5-134		3060529	MS	05-Jun-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3060531	MS	05-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3060531	MS	05-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3060531	MS	05-Jun-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			85.0 %	48.2-134		3060531	MS	05-Jun-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			88.0 %	49.1-148		3060531	MS	05-Jun-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ELITE ENVIRONMENTAL SERVICES
P.O. BOX 735
GAINSVILLE TX, 76241

Project: STATE E 14 STRAWN
Project Number: PENROC
Project Manager: MIKE HOLDER
Fax To:

Reported:
09-Jun-23 09:13

SW - 5**H232828-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	3060611	AC	06-Jun-23	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3060529	MS	05-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3060529	MS	05-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3060529	MS	05-Jun-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3060529	MS	05-Jun-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3060529	MS	05-Jun-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134 3060529 MS 05-Jun-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3060531	MS	06-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3060531	MS	06-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3060531	MS	06-Jun-23	8015B	

Surrogate: 1-Chlorooctane 85.0 % 48.2-134 3060531 MS 06-Jun-23 8015B

Surrogate: 1-Chlorooctadecane 86.4 % 49.1-148 3060531 MS 06-Jun-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ELITE ENVIRONMENTAL SERVICES P.O. BOX 735 GAINSVILLE TX, 76241	Project: STATE E 14 STRAWN Project Number: PENROC Project Manager: MIKE HOLDER Fax To:	Reported: 09-Jun-23 09:13
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SW - 6

H232828-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	3060611	AC	06-Jun-23	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3060529	MS	05-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3060529	MS	05-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3060529	MS	05-Jun-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3060529	MS	05-Jun-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3060529	MS	05-Jun-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	71.5-134		3060529	MS	05-Jun-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3060531	MS	06-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3060531	MS	06-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3060531	MS	06-Jun-23	8015B	

Surrogate: 1-Chlorooctane			84.3 %	48.2-134		3060531	MS	06-Jun-23	8015B	
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Surrogate: 1-Chlorooctadecane			85.9 %	49.1-148		3060531	MS	06-Jun-23	8015B	
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Analytical Results For:

ELITE ENVIRONMENTAL SERVICES P.O. BOX 735 GAINSVILLE TX, 76241	Project: STATE E 14 STRAWN Project Number: PENROC Project Manager: MIKE HOLDER Fax To:	Reported: 09-Jun-23 09:13
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SW - 7

H232828-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	16.0		16.0	mg/kg	4	3060611	AC	06-Jun-23	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3060529	MS	05-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3060529	MS	05-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3060529	MS	05-Jun-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3060529	MS	05-Jun-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3060529	MS	05-Jun-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	71.5-134		3060529	MS	05-Jun-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3060531	MS	06-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3060531	MS	06-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3060531	MS	06-Jun-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			78.5 %	48.2-134		3060531	MS	06-Jun-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			80.3 %	49.1-148		3060531	MS	06-Jun-23	8015B	
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Analytical Results For:

ELITE ENVIRONMENTAL SERVICES P.O. BOX 735 GAINSVILLE TX, 76241	Project: STATE E 14 STRAWN Project Number: PENROC Project Manager: MIKE HOLDER Fax To:	Reported: 09-Jun-23 09:13
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SW - 8

H232828-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	3060611	AC	06-Jun-23	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3060529	MS	05-Jun-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3060529	MS	05-Jun-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3060529	MS	05-Jun-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3060529	MS	05-Jun-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3060529	MS	05-Jun-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	71.5-134		3060529	MS	05-Jun-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3060531	MS	06-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3060531	MS	06-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3060531	MS	06-Jun-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			83.9 %	48.2-134		3060531	MS	06-Jun-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			87.1 %	49.1-148		3060531	MS	06-Jun-23	8015B	
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Analytical Results For:

ELITE ENVIRONMENTAL SERVICES P.O. BOX 735 GAINSVILLE TX, 76241	Project: STATE E 14 STRAWN Project Number: PENROC Project Manager: MIKE HOLDER Fax To:	Reported: 09-Jun-23 09:13
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SP - 3 - 2'
H232828-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	3060611	AC	07-Jun-23	4500-CI-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3060804	MS	08-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3060804	MS	08-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3060804	MS	08-Jun-23	8015B	
Surrogate: 1-Chlorooctane			99.9 %	48.2-134		3060804	MS	08-Jun-23	8015B	
Surrogate: 1-Chlorooctadecane			98.3 %	49.1-148		3060804	MS	08-Jun-23	8015B	

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Analytical Results For:

ELITE ENVIRONMENTAL SERVICES P.O. BOX 735 GAINSVILLE TX, 76241	Project: STATE E 14 STRAWN Project Number: PENROC Project Manager: MIKE HOLDER Fax To:	Reported: 09-Jun-23 09:13
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SP - 1 - 2'
H232828-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	16.0		16.0	mg/kg	4	3060611	AC	06-Jun-23	4500-CI-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3060531	MS	06-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3060531	MS	06-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3060531	MS	06-Jun-23	8015B	
Surrogate: 1-Chlorooctane			82.8 %	48.2-134		3060531	MS	06-Jun-23	8015B	
Surrogate: 1-Chlorooctadecane			85.0 %	49.1-148		3060531	MS	06-Jun-23	8015B	

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Analytical Results For:

ELITE ENVIRONMENTAL SERVICES P.O. BOX 735 GAINSVILLE TX, 76241	Project: STATE E 14 STRAWN Project Number: PENROC Project Manager: MIKE HOLDER Fax To:	Reported: 09-Jun-23 09:13
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SP - 1 - 3'
H232828-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	16.0		16.0	mg/kg	4	3060611	AC	06-Jun-23	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3060531	MS	06-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3060531	MS	06-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3060531	MS	06-Jun-23	8015B	
Surrogate: 1-Chlorooctane			87.0 %	48.2-134		3060531	MS	06-Jun-23	8015B	
Surrogate: 1-Chlorooctadecane			89.4 %	49.1-148		3060531	MS	06-Jun-23	8015B	

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Analytical Results For:

ELITE ENVIRONMENTAL SERVICES P.O. BOX 735 GAINSVILLE TX, 76241	Project: STATE E 14 STRAWN Project Number: PENROC Project Manager: MIKE HOLDER Fax To:	Reported: 09-Jun-23 09:13
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SP - 1 - 4'
H232828-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	3060611	AC	06-Jun-23	4500-CI-B	
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Analytical Results For:

ELITE ENVIRONMENTAL SERVICES P.O. BOX 735 GAINSVILLE TX, 76241	Project: STATE E 14 STRAWN Project Number: PENROC Project Manager: MIKE HOLDER Fax To:	Reported: 09-Jun-23 09:13
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SP - 2 - 2'
H232828-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	48.0		16.0	mg/kg	4	3060612	AC	06-Jun-23	4500-CI-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3060531	MS	06-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3060531	MS	06-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3060531	MS	06-Jun-23	8015B	
Surrogate: 1-Chlorooctane			83.0 %	48.2-134		3060531	MS	06-Jun-23	8015B	
Surrogate: 1-Chlorooctadecane			84.7 %	49.1-148		3060531	MS	06-Jun-23	8015B	

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Analytical Results For:

ELITE ENVIRONMENTAL SERVICES P.O. BOX 735 GAINSVILLE TX, 76241	Project: STATE E 14 STRAWN Project Number: PENROC Project Manager: MIKE HOLDER Fax To:	Reported: 09-Jun-23 09:13
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SP - 2 - 3'
H232828-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	48.0		16.0	mg/kg	4	3060612	AC	06-Jun-23	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3060531	MS	06-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3060531	MS	06-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3060531	MS	06-Jun-23	8015B	
Surrogate: 1-Chlorooctane			88.4 %	48.2-134		3060531	MS	06-Jun-23	8015B	
Surrogate: 1-Chlorooctadecane			93.3 %	49.1-148		3060531	MS	06-Jun-23	8015B	

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Analytical Results For:

ELITE ENVIRONMENTAL SERVICES P.O. BOX 735 GAINSVILLE TX, 76241	Project: STATE E 14 STRAWN Project Number: PENROC Project Manager: MIKE HOLDER Fax To:	Reported: 09-Jun-23 09:13
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SP - 2 - 4'
H232828-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	48.0		16.0	mg/kg	4	3060612	AC	06-Jun-23	4500-CI-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3060531	MS	06-Jun-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3060531	MS	06-Jun-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3060531	MS	06-Jun-23	8015B	
Surrogate: 1-Chlorooctane			85.1 %	48.2-134		3060531	MS	06-Jun-23	8015B	
Surrogate: 1-Chlorooctadecane			88.4 %	49.1-148		3060531	MS	06-Jun-23	8015B	

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Analytical Results For:

ELITE ENVIRONMENTAL SERVICES P.O. BOX 735 GAINSVILLE TX, 76241	Project: STATE E 14 STRAWN Project Number: PENROC Project Manager: MIKE HOLDER Fax To:	Reported: 09-Jun-23 09:13
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Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3060611 - 1:4 DI Water

Blank (3060611-BLK1)				Prepared & Analyzed: 06-Jun-23						
Chloride	ND	16.0	mg/kg							
LCS (3060611-BS1)				Prepared & Analyzed: 06-Jun-23						
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (3060611-BSD1)				Prepared & Analyzed: 06-Jun-23						
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

Batch 3060612 - 1:4 DI Water

Blank (3060612-BLK1)				Prepared & Analyzed: 06-Jun-23						
Chloride	ND	16.0	mg/kg							
LCS (3060612-BS1)				Prepared & Analyzed: 06-Jun-23						
Chloride	448	16.0	mg/kg	400		112	80-120			
LCS Dup (3060612-BSD1)				Prepared & Analyzed: 06-Jun-23						
Chloride	448	16.0	mg/kg	400		112	80-120	0.00	20	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ELITE ENVIRONMENTAL SERVICES
P.O. BOX 735
GAINSVILLE TX, 76241

Project: STATE E 14 STRAWN
Project Number: PENROC
Project Manager: MIKE HOLDER
Fax To:

Reported:
09-Jun-23 09:13

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3060529 - Volatiles**Blank (3060529-BLK1)**

Prepared & Analyzed: 05-Jun-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0514		mg/kg	0.0500		103	71.5-134			

LCS (3060529-BS1)

Prepared & Analyzed: 05-Jun-23

Benzene	2.05	0.050	mg/kg	2.00		103	81.4-118			
Toluene	2.04	0.050	mg/kg	2.00		102	88.7-121			
Ethylbenzene	1.97	0.050	mg/kg	2.00		98.4	86.1-120			
m,p-Xylene	4.04	0.100	mg/kg	4.00		101	88.2-124			
o-Xylene	1.94	0.050	mg/kg	2.00		96.8	84.9-118			
Total Xylenes	5.97	0.150	mg/kg	6.00		99.6	87.3-122			
Surrogate: 4-Bromofluorobenzene (PID)	0.0499		mg/kg	0.0500		99.9	71.5-134			

LCS Dup (3060529-BSD1)

Prepared & Analyzed: 05-Jun-23

Benzene	2.01	0.050	mg/kg	2.00		101	81.4-118	1.95	15.8	
Toluene	2.00	0.050	mg/kg	2.00		99.9	88.7-121	1.86	15.9	
Ethylbenzene	1.96	0.050	mg/kg	2.00		97.8	86.1-120	0.638	16	
m,p-Xylene	4.04	0.100	mg/kg	4.00		101	88.2-124	0.00423	16.2	
o-Xylene	1.91	0.050	mg/kg	2.00		95.6	84.9-118	1.28	16.7	
Total Xylenes	5.95	0.150	mg/kg	6.00		99.2	87.3-122	0.409	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0502		mg/kg	0.0500		100	71.5-134			

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Caley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ELITE ENVIRONMENTAL SERVICES P.O. BOX 735 GAINSVILLE TX, 76241	Project: STATE E 14 STRAWN Project Number: PENROC Project Manager: MIKE HOLDER Fax To:	Reported: 09-Jun-23 09:13
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3060531 - General Prep - Organics

Blank (3060531-BLK1)		Prepared & Analyzed: 05-Jun-23								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	33.4		mg/kg	49.6		67.5	48.2-134			
Surrogate: 1-Chlorooctadecane	33.9		mg/kg	50.0		67.9	49.1-148			

LCS (3060531-BS1)		Prepared & Analyzed: 05-Jun-23								
GRO C6-C10	213	10.0	mg/kg	200		106	78.5-124			
DRO >C10-C28	204	10.0	mg/kg	200		102	72.5-126			
Total TPH C6-C28	417	10.0	mg/kg	400		104	77.6-123			
Surrogate: 1-Chlorooctane	44.0		mg/kg	49.6		88.7	48.2-134			
Surrogate: 1-Chlorooctadecane	43.0		mg/kg	50.0		86.1	49.1-148			

LCS Dup (3060531-BS1)		Prepared & Analyzed: 05-Jun-23								
GRO C6-C10	162	10.0	mg/kg	200		81.0	78.5-124	27.1	17.7	QR-04
DRO >C10-C28	171	10.0	mg/kg	200		85.6	72.5-126	17.6	21	
Total TPH C6-C28	333	10.0	mg/kg	400		83.3	77.6-123	22.3	18.5	QR-04
Surrogate: 1-Chlorooctane	38.9		mg/kg	49.6		78.5	48.2-134			
Surrogate: 1-Chlorooctadecane	37.7		mg/kg	50.0		75.5	49.1-148			

Batch 3060804 - General Prep - Organics

Blank (3060804-BLK1)		Prepared & Analyzed: 08-Jun-23								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	41.6		mg/kg	49.6		83.9	48.2-134			
Surrogate: 1-Chlorooctadecane	40.4		mg/kg	50.0		80.8	49.1-148			

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Analytical Results For:

ELITE ENVIRONMENTAL SERVICES P.O. BOX 735 GAINSVILLE TX, 76241	Project: STATE E 14 STRAWN Project Number: PENROC Project Manager: MIKE HOLDER Fax To:	Reported: 09-Jun-23 09:13
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3060804 - General Prep - Organics

LCS (3060804-BS1)		Prepared & Analyzed: 08-Jun-23								
GRO C6-C10	173	10.0	mg/kg	200		86.4	78.5-124			
DRO >C10-C28	163	10.0	mg/kg	200		81.5	72.5-126			
Total TPH C6-C28	336	10.0	mg/kg	400		83.9	77.6-123			
Surrogate: 1-Chlorooctane	45.6		mg/kg	49.6		92.0	48.2-134			
Surrogate: 1-Chlorooctadecane	41.4		mg/kg	50.0		82.8	49.1-148			

LCS Dup (3060804-BSD1)		Prepared & Analyzed: 08-Jun-23								
GRO C6-C10	221	10.0	mg/kg	200		111	78.5-124	24.7	17.7	QR-04
DRO >C10-C28	199	10.0	mg/kg	200		99.4	72.5-126	19.8	21	
Total TPH C6-C28	420	10.0	mg/kg	400		105	77.6-123	22.3	18.5	QR-04
Surrogate: 1-Chlorooctane	55.9		mg/kg	49.6		113	48.2-134			
Surrogate: 1-Chlorooctadecane	57.3		mg/kg	50.0		115	49.1-148			

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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
- 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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

242

Company Name: <u>Elite Enviro</u>		BILL TO		ANALYSIS REQUEST												
Project Manager:		P.O. #:														
Address:		Company:														
City:	State:	Zip:	Attn:													
Phone #:	Fax #:	Address:														
Project #:	Project Owner:		City:													
Project Name: <u>State E14 Show</u>			State:													Zip:
Project Location: <u>Lea Co. NM</u>			Phone #:													
Sampler Name: <u>Hobbs, Valdez</u>			Fax #:													

FOR LAB USE ONLY		(GRAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		TPH	BTEX	Chlorides EPA 4500
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :			
<u>H32828</u>															
<u>10</u>	<u>SP-1 - 2'</u>	<u>C</u>	<u>1</u>			<u>X</u>			<u>X</u>		<u>6-5-23</u>	<u>10:15</u>	<u>X</u>	<u>X</u>	
<u>11</u>	<u>SP-1 - 3'</u>	<u>C</u>	<u>1</u>			<u>X</u>			<u>X</u>		<u>6-5-23</u>	<u>10:20</u>	<u>X</u>	<u>X</u>	
<u>12</u>	<u>SP-1 - 4'</u>	<u>C</u>	<u>1</u>			<u>X</u>			<u>X</u>		<u>6-5-23</u>	<u>10:24</u>	<u>X</u>	<u>X</u>	
<u>13</u>	<u>SP-2 - 2'</u>	<u>C</u>	<u>1</u>			<u>X</u>			<u>X</u>		<u>6-5-23</u>	<u>10:28</u>	<u>X</u>	<u>X</u>	
<u>14</u>	<u>SP-2 - 3'</u>	<u>C</u>	<u>1</u>			<u>X</u>			<u>X</u>		<u>6-5-23</u>	<u>10:32</u>	<u>X</u>	<u>X</u>	
<u>15</u>	<u>SP-2 - 4'</u>	<u>C</u>	<u>1</u>			<u>X</u>			<u>X</u>		<u>6-5-23</u>	<u>10:35</u>	<u>X</u>	<u>X</u>	

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Relinquished By: <u>[Signature]</u>	Date: <u>6-5-23</u>	Received By: <u>[Signature]</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
	Time: <u>1135</u>		All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C <u>5.1</u> Corrected Temp. °C <u>4.5</u>	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Yes <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (Initials) <u>[Signature]</u> Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> <u>2 Day</u> Thermometer ID #113 Correction Factor -0.6°C
		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C	

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

June 13, 2023

MIKE HOLDER
ELITE ENVIRONMENTAL SERVICES
P.O. BOX 735
GAINSVILLE, TX 76241

RE: STATE E 14 STRAWN

Enclosed are the results of analyses for samples received by the laboratory on 06/09/23 11:12.

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 style with a large, flowing "C" at the beginning.

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ELITE ENVIRONMENTAL SERVICES
 MIKE HOLDER
 P.O. BOX 735
 GAINSVILLE TX, 76241
 Fax To:

Received:	06/09/2023	Sampling Date:	06/09/2023
Reported:	06/13/2023	Sampling Type:	Soil
Project Name:	STATE E 14 STRAWN	Sampling Condition:	Cool & Intact
Project Number:	PENROC	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SW - 9 (H232975-01)

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	2.38	119	2.00	13.4	QR-03
Toluene*	<0.050	0.050	06/09/2023	ND	2.37	119	2.00	13.3	
Ethylbenzene*	<0.050	0.050	06/09/2023	ND	2.34	117	2.00	14.4	
Total Xylenes*	<0.150	0.150	06/09/2023	ND	7.12	119	6.00	13.7	
Total BTEX	<0.300	0.300	06/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	06/09/2023	ND	416	104	400	3.92	

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	06/09/2023	ND	225	112	200	4.60	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	194	96.9	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ELITE ENVIRONMENTAL SERVICES
 MIKE HOLDER
 P.O. BOX 735
 GAINSVILLE TX, 76241
 Fax To:

Received: 06/09/2023
 Reported: 06/13/2023
 Project Name: STATE E 14 STRAWN
 Project Number: PENROC
 Project Location: LEA COUNTY, NM

Sampling Date: 06/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 10 (H232975-02)

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	06/10/2023	ND	2.38	119	2.00	13.4	
Toluene*	<0.050	0.050	06/10/2023	ND	2.37	119	2.00	13.3	
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.34	117	2.00	14.4	
Total Xylenes*	<0.150	0.150	06/10/2023	ND	7.12	119	6.00	13.7	
Total BTEX	<0.300	0.300	06/10/2023	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	06/09/2023	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	06/09/2023	ND	225	112	200	4.60	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	194	96.9	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 75.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.7 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ELITE ENVIRONMENTAL SERVICES
 MIKE HOLDER
 P.O. BOX 735
 GAINSVILLE TX, 76241
 Fax To:

Received: 06/09/2023
 Reported: 06/13/2023
 Project Name: STATE E 14 STRAWN
 Project Number: PENROC
 Project Location: LEA COUNTY, NM

Sampling Date: 06/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 11 (H232975-03)

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	06/10/2023	ND	2.38	119	2.00	13.4	
Toluene*	<0.050	0.050	06/10/2023	ND	2.37	119	2.00	13.3	
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.34	117	2.00	14.4	
Total Xylenes*	<0.150	0.150	06/10/2023	ND	7.12	119	6.00	13.7	
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	48.0	16.0	06/09/2023	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	06/09/2023	ND	225	112	200	4.60	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	194	96.9	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 49.1-148

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*=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:

ELITE ENVIRONMENTAL SERVICES
 MIKE HOLDER
 P.O. BOX 735
 GAINSVILLE TX, 76241
 Fax To:

Received:	06/09/2023	Sampling Date:	06/09/2023
Reported:	06/13/2023	Sampling Type:	Soil
Project Name:	STATE E 14 STRAWN	Sampling Condition:	Cool & Intact
Project Number:	PENROC	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SW - 12 (H232975-04)

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	06/10/2023	ND	2.38	119	2.00	13.4		
Toluene*	<0.050	0.050	06/10/2023	ND	2.37	119	2.00	13.3		
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.34	117	2.00	14.4		
Total Xylenes*	<0.150	0.150	06/10/2023	ND	7.12	119	6.00	13.7		
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	32.0	16.0	06/09/2023	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	06/09/2023	ND	225	112	200	4.60		
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	194	96.9	200	1.10		
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND						

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ELITE ENVIRONMENTAL SERVICES
 MIKE HOLDER
 P.O. BOX 735
 GAINSVILLE TX, 76241
 Fax To:

Received: 06/09/2023
 Reported: 06/13/2023
 Project Name: STATE E 14 STRAWN
 Project Number: PENROC
 Project Location: LEA COUNTY, NM

Sampling Date: 06/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 13 (H232975-05)

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	06/10/2023	ND	2.38	119	2.00	13.4	
Toluene*	<0.050	0.050	06/10/2023	ND	2.37	119	2.00	13.3	
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.34	117	2.00	14.4	
Total Xylenes*	<0.150	0.150	06/10/2023	ND	7.12	119	6.00	13.7	
Total BTEX	<0.300	0.300	06/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	06/09/2023	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	06/09/2023	ND	225	112	200	4.60	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	194	96.9	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 81.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ELITE ENVIRONMENTAL SERVICES
 MIKE HOLDER
 P.O. BOX 735
 GAINSVILLE TX, 76241
 Fax To:

Received:	06/09/2023	Sampling Date:	06/09/2023
Reported:	06/13/2023	Sampling Type:	Soil
Project Name:	STATE E 14 STRAWN	Sampling Condition:	Cool & Intact
Project Number:	PENROC	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SW - 14 (H232975-06)

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	06/10/2023	ND	2.38	119	2.00	13.4	
Toluene*	<0.050	0.050	06/10/2023	ND	2.37	119	2.00	13.3	
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.34	117	2.00	14.4	
Total Xylenes*	<0.150	0.150	06/10/2023	ND	7.12	119	6.00	13.7	
Total BTEX	<0.300	0.300	06/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	06/09/2023	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	06/09/2023	ND	225	112	200	4.60	
DRO >C10-C28*	<10.0	10.0	06/09/2023	ND	194	96.9	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	06/09/2023	ND					

Surrogate: 1-Chlorooctane 80.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ELITE ENVIRONMENTAL SERVICES
 MIKE HOLDER
 P.O. BOX 735
 GAINSVILLE TX, 76241
 Fax To:

Received:	06/09/2023	Sampling Date:	06/09/2023
Reported:	06/13/2023	Sampling Type:	Soil
Project Name:	STATE E 14 STRAWN	Sampling Condition:	Cool & Intact
Project Number:	PENROC	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: SW - 15 (H232975-07)

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	06/10/2023	ND	2.38	119	2.00	13.4	
Toluene*	<0.050	0.050	06/10/2023	ND	2.37	119	2.00	13.3	
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.34	117	2.00	14.4	
Total Xylenes*	<0.150	0.150	06/10/2023	ND	7.12	119	6.00	13.7	
Total BTEX	<0.300	0.300	06/10/2023	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	06/09/2023	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	06/10/2023	ND	159	79.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	06/10/2023	ND	170	85.0	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	06/10/2023	ND					

Surrogate: 1-Chlorooctane 71.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ELITE ENVIRONMENTAL SERVICES
 MIKE HOLDER
 P.O. BOX 735
 GAINSVILLE TX, 76241
 Fax To:

Received: 06/09/2023
 Reported: 06/13/2023
 Project Name: STATE E 14 STRAWN
 Project Number: PENROC
 Project Location: LEA COUNTY, NM

Sampling Date: 06/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 16 (H232975-08)

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	06/10/2023	ND	2.38	119	2.00	13.4	
Toluene*	<0.050	0.050	06/10/2023	ND	2.37	119	2.00	13.3	
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.34	117	2.00	14.4	
Total Xylenes*	<0.150	0.150	06/10/2023	ND	7.12	119	6.00	13.7	
Total BTEX	<0.300	0.300	06/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	06/09/2023	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	06/10/2023	ND	159	79.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	06/10/2023	ND	170	85.0	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	06/10/2023	ND					

Surrogate: 1-Chlorooctane 81.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ELITE ENVIRONMENTAL SERVICES
 MIKE HOLDER
 P.O. BOX 735
 GAINSVILLE TX, 76241
 Fax To:

Received: 06/09/2023
 Reported: 06/13/2023
 Project Name: STATE E 14 STRAWN
 Project Number: PENROC
 Project Location: LEA COUNTY, NM

Sampling Date: 06/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 17 (H232975-09)

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	06/10/2023	ND	2.38	119	2.00	13.4	
Toluene*	<0.050	0.050	06/10/2023	ND	2.37	119	2.00	13.3	
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.34	117	2.00	14.4	
Total Xylenes*	<0.150	0.150	06/10/2023	ND	7.12	119	6.00	13.7	
Total BTEX	<0.300	0.300	06/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	06/09/2023	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	06/10/2023	ND	159	79.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	06/10/2023	ND	170	85.0	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	06/10/2023	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ELITE ENVIRONMENTAL SERVICES
 MIKE HOLDER
 P.O. BOX 735
 GAINSVILLE TX, 76241
 Fax To:

Received: 06/09/2023
 Reported: 06/13/2023
 Project Name: STATE E 14 STRAWN
 Project Number: PENROC
 Project Location: LEA COUNTY, NM

Sampling Date: 06/09/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 18 (H232975-10)

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	06/10/2023	ND	2.38	119	2.00	13.4	
Toluene*	<0.050	0.050	06/10/2023	ND	2.37	119	2.00	13.3	
Ethylbenzene*	<0.050	0.050	06/10/2023	ND	2.34	117	2.00	14.4	
Total Xylenes*	<0.150	0.150	06/10/2023	ND	7.12	119	6.00	13.7	
Total BTEX	<0.300	0.300	06/10/2023	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	64.0	16.0	06/09/2023	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	06/10/2023	ND	159	79.6	200	2.32	
DRO >C10-C28*	<10.0	10.0	06/10/2023	ND	170	85.0	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	06/10/2023	ND					

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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.
BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 1

Company Name: <u>Eldo Environmental</u>	BILL TO	ANALYSIS REQUEST									
Project Manager:		P.O. #:									
Address: <u>P.O. Box 735</u>	Company:										
City: <u>Gainesville</u> State: <u>TX</u> Zip: <u>76241</u>	Attn:										
Phone #: <u>918-740-2766</u> Fax #:	Address:										
Project #: Project Owner: <u>Penrod Oil</u>	City:										
Project Name: <u>State E14 STRAWW</u>	State: Zip:										
Project Location: <u>Lee County, NM</u>	Phone #:										
Sampler Name: <u>Holder</u>	Fax #:										

FOR LAB USE ONLY		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		TPH	BTEX	Chlorides - EPA-4500
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER			
<u>H232975</u>															
<u>1</u>	<u>SW-9</u>	<u>C</u>	<u>1</u>			<u>Y</u>			<u>Y</u>		<u>6-9-23</u>	<u>9:05</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>2</u>	<u>SW-10</u>	<u>C</u>	<u>1</u>			<u>X</u>			<u>Y</u>			<u>9:10</u>			
<u>3</u>	<u>SW-11</u>	<u>C</u>	<u>1</u>			<u>X</u>			<u>Y</u>			<u>9:15</u>			
<u>4</u>	<u>SW-12</u>	<u>C</u>	<u>1</u>			<u>X</u>			<u>X</u>			<u>9:20</u>			
<u>5</u>	<u>SW-13</u>	<u>C</u>	<u>1</u>			<u>X</u>			<u>Y</u>			<u>9:25</u>			
<u>6</u>	<u>SW-14</u>	<u>C</u>	<u>1</u>			<u>X</u>			<u>X</u>			<u>9:30</u>			
<u>7</u>	<u>SW-15</u>	<u>C</u>	<u>1</u>			<u>X</u>			<u>X</u>			<u>9:35</u>			
<u>8</u>	<u>SW-16</u>	<u>C</u>	<u>1</u>			<u>X</u>			<u>X</u>			<u>9:40</u>			
<u>9</u>	<u>SW-17</u>	<u>C</u>	<u>1</u>			<u>X</u>			<u>Y</u>			<u>9:45</u>			
<u>10</u>	<u>SW-18</u>	<u>C</u>	<u>1</u>			<u>X</u>			<u>X</u>			<u>9:50</u>			

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <u>[Signature]</u>	Date: <u>6-9-23</u>	Received By: <u>[Signature]</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address:
Delivered By: (Circle One)	Observed Temp. °C <u>0.8</u>	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
Sampler - UPS - Bus - Other:	Corrected Temp. °C <u>0.2</u>	CHECKED BY: (Initials) <u>[Signature]</u>	Thermometer ID #113 Correction Factor -0.6°C <u>30day</u>

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



Appendix D: Photographic Documentation

Photographic Log
Penroc Oil Corporation
State E 14 Tank Battery



View of well sign (8/31/22).



View to NW of release to E of TB (8/31/22).



View to NW of test hole SP-1 installation 11/9/22.



View to W of test hole SP-2 installation (11/9/22).



View to W of test hole SP-3 installation (11/9/22).



View to W of test hole SP-4 installation (11/9/22).



View to NW of completed remediation (5/22/23).



View to E of completed remediation (5/22/23).

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 232694

CONDITIONS

Operator: PENROC OIL CORP P.O. Box 2769 Hobbs, NM 882412769	OGRID: 17213
	Action Number: 232694
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	9/20/2023