Released Volume Calculation

Length 250 feet

Width 120 feet

Thickness 0.5 in

15,000 gal = 357 Est. Total Bbls Released

Volume = L*W*T

Total Released Volume = 15,000 gallons (US, dry)

357 Bbls



Site Characterization Report and Remediation Workplan

August 28, 2025

South Vacuum #274 SWD (SW-392-00) Produced Water Release Incident # nAPP2523985227 Lea County, New Mexico

Prepared For:

Clearwater SWD, LLC P.O. Box 1476 Lovington, New Mexico 88260

Prepared By:

Crain Environmental 2925 East 17th Street Odessa, Texas 79761

grthea K. Csain Cynthia K. Crain, P.G.



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APPENDICES

Appendix A - NMOSE Water Well Records

Appendix B – NMSLO Cultural Resources Cover Sheet

Appendix C – Biological Desktop Review

Appendix D – Laboratory Reports and Chain-of-Custody Documentation

Appendix E – Photographic Documentation



1.0 Introduction

Crain Environmental (CE), on behalf of Clearwater SWD, LLC (Clearwater), has prepared this Site Characterization Report and Remediation Workplan for the produced water release at South Vacuum #274 SWD (Site), located approximately 16 miles west of Hobbs, in Lea County, New Mexico. The global positioning system (GPS) coordinates for the Release Site are 32.714002, -103.439334. The property surface rights are owned by the State of New Mexico. The location of the Site is depicted on Figure 1.

2.0 Background

Clearwater has applied to the New Mexico State Land Office (NMSLO) for a Salt Water Easement (Easement) at the Site. As a result of an Easement application, NMSLO has notified Clearwater that a "NMSLO 2025 field report noted spills around piping at the Salt Water easement" and has requested that Clearwater provide to the Oil Conservation Division (OCD) and NMSLO Environmental Compliance Office (ECO) all relevant information concerning the spills in the form of a site assessment workplan.

On July 7, 2022, Clearwater submitted a Remediation Report and Closure Request to the OCD for Incident #nAPP2209030874 at the South Vacuum #274 SWD. The release covered an area measuring approximately 90' x 80' to the east and southeast of the water tank. The produced water release covered a surface area of approximately 7,200 square feet. The OCD approved closure of the release on July 19, 2022.

On June 9, 2023, Clearwater observed a release from a flow line at the northwest corner of the well pad. Remediation was conducted, but not completed, and the release was not reported to the OCD at that time. A Notice of Release (NOR) was submitted to the OCD on August 28, 2025, and Incident # nAPP2523985227 was assigned. Figure 2 shows the release area.

This Site Characterization Report and Remediation Workplan has been prepared in accordance with 19.15.29.11 New Mexico Administrative Code (NMAC) and provides the results of assessment and remediation activities conducted at Incident # nAPP2523985227 and includes a proposal for completion of soil remediation.

3.0 NMOCD Closure Criteria

Cleanup standards for 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. Three different Closure Criteria are provided in the rule. The most stringent apply to sites where groundwater is found within 50 feet of the ground surface or if the release occurred within one of the following areas:

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
- Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary highwater mark).
- Within 300 feet from an occupied permanent residence, school, hospital, institution or church.



- Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes.
- Within 1,000 feet of any fresh water well or spring.
- Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended.
- Within 300 feet of a wetland.
- Within the area overlying a subsurface mine.
- Within an unstable area such as a karst formation.
- Within a 100-year floodplain.

CE reviewed available information to determine the Closure Criteria for the Site. The findings of this evaluation are summarized below.

3.1 Groundwater Evaluation

A review of the New Mexico Office of the State Engineer (NMOSE) records indicated there are three water wells located within 0.5 mile of the Site, and initial depth to groundwater measurements were provided for each well. Depth to groundwater in the three wells surrounding the Site ranged from 40 to 60 feet below ground surface (bgs). All wells were drilled prior to 1974. All wells located within 0.5 mile from the Site are listed in the table below. Figure 3 provides a 0.5-mile radius circle around the Site and shows the location of the three water wells within that radius. Based on the water well data available in NMOSE records, it will be assumed that depth to groundwater at the Site is less than 50 feet bgs. NMOSE water well records with depth to groundwater listed are provided in Appendix A.

Nearby Water Wells

Well ID	Location from Release Site	Year Installed	Use	Depth to Water (feet bgs)
L 06868	Approx. 2,600 feet to east	1971	N/A	57
L 06869	Approx. 1,800 feet to northeast	1971	N/A	60
L 07129	Approx. 1,600 feet to south	1973	N/A	40

3.2 Surface Features and Other Development

CE reviewed recent aerial photographs, topographic maps, the NMOSE Point of Discharge (POD) GIS website, and information available from the Lea County, New Mexico Central Appraisal District website. As shown on Figure 1, the Site is **not** located:

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
 - No continuously flowing watercourses (rivers, streams, arroyos, etc.) are apparent within 300 feet of the Site in the aerial map (Figure 4).



- Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary highwater mark).
 - The aerial map (Figure 4) indicates there is not a lakebed, sinkhole or playa lake located within 200 feet of the Site; however, freshwater emergent wetlands and located approximately 900 feet northwest and 2,400 feet east of the Site. Additionally, a freshwater pond is located approximately 2,900 feet north of the Site.
- Within 300 feet from an occupied permanent residence, school, hospital, institution or church.
 - The Site Location Map (Figure 1) and information available from the Lea County, New Mexico Central Appraisal District do not show or list any permanent residence, school, hospital, institution or church located within 300 feet of the Site.
- Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes.
 - No wells or springs located within 500 feet of the Site appear in any of the NMOSE records reviewed by CE.
- Within 1,000 feet of any fresh water well or spring.
 - No freshwater wells or springs located within 1,000 feet of the Site appear in any of the records reviewed by CE.
- Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended.
 - Based on the property and other records review by CE, the Site is not located in incorporated municipal boundaries or within a defined municipal fresh water well field.
- Within the area overlying a subsurface mine.
 - Based on the property and other records reviewed by CE, the Site is not located within an area overlying a subsurface mine.

3.3 Wetlands, Floodplain, and Karst Geology

A review of the United States Fish and Wildlife Service (USFWS) wetlands map indicated the Site is not located within 300 feet of a wetland; however, freshwater emergent wetlands and located approximately 900 feet northwest and 2,400 feet east of the Site. Additionally, a freshwater pond is located approximately 2,900 feet north of the Site. The New Mexico Bureau of Land Management (BLM) karst potential map indicates the Site is located within a "low karst potential" area. Finally, a review of the Federal Emergency Management Act (FEMA) floodplain map indicates the release at the Site is located outside of a 100-year floodplain. Figures 4, 5, and 6 depict the USFWS map, the FEMA floodplain map, and the karst potential map, respectively.

3.4 Closure Criteria Currently Assumed Applicable to the Site

Based on the water well data available in NMOSE records, it will be assumed that depth to groundwater at the Site is less than 50 feet bgs and the most stringent NMOCD Closure Criteria associated with groundwater depths of less than 50 feet bgs will apply. A summary of the Closure Criteria is provided in the table below and in Table 1.



NMOCD Closure Criteria

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

Notes: NA = not applicable

bgs = below ground surface
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 Site Assessment/Characterization Results

As per 19.15.29.11 NMAC, a Site Characterization Report will have the components described in Sections 4.1 through 4.5 of this document.

4.1 Site Map

As required by 19.15.29.11 NMAC, a scaled diagram showing significant Site infrastructure, sample point locations, and known subsurface features such as utilities is provided as Figure 2.

4.2 Depth to Groundwater

As discussed in Sections 3.1 and 3.4, depth to groundwater is assumed to be less than 50' bgs, and the most stringent NMOCD Closure Criteria will apply to the Site.

4.3 Wellhead Protection Area

The 0.5-mile wellhead protection area is shown on Figure 3. There were no other water sources, springs, or other sources of freshwater extraction identified within 0.5-mile of the Site.

4.4 Distance to Nearest Significant Watercourse

The horizontal distance to the nearest significant watercourse as defined in Subsection P of 19.15.17.7 NMAC is greater than 0.5-mile from the Site.



4.5 Summary of Delineation/Remediation Activities

As all sample locations were in areas that were not previously disturbed, compliance with the Cultural Properties Protection (CPP) Rule did apply, and an Archaeological Survey was completed by APAC of Carlsbad, New Mexico. The Archaeological Survey (NMCRIS Activity Number: 159334) reports that findings were negative, and no further archaeological review is required. Appendix D provides a copy of the Cultural resources Cover Sheet.

A biological desktop review was conducted, and no sensitive wildlife or plant species were found in proximity to the subject Site. A copy of the U.S. Fish & Wildlife Service database review and the New Mexico Habitat Assessment Tool (NM CHAT) map is included in Appendix E.

Beginning on June 10, 2023, affected soil was excavated from the release area until five-point composite confirmation samples were collected from the sidewalls (S-1 through S-11) and the bottom (S-12 through S-16) on June 21, 2023.

All samples were placed in laboratory prepared containers, properly labeled, immediately placed on ice, and hand delivered to Cardinal Laboratories (Cardinal) of Hobbs, New Mexico for analysis of total petroleum hydrocarbons (TPH) by EPA Method 8015 Modified, benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chlorides by EPA Method 300.0.

Table 1 provides a summary of the laboratory results. Figure 2 shows the sample locations and concentrations. Appendix D provides a copy of the laboratory report and chain-of-custody documentation. Appendix E provides a photographic log that documents assessment activities.

Referring to Table 1, concentrations of benzene and total BTEX were reported below the test method detection limits in each sample. Concentrations of TPH were reported above the Closure Criteria in sample S-1 (118.5 mg/kg), and concentrations of chlorides were reported above the Closure Criteria in all samples except sidewall samples S-4, S-6, and S-9, and in all bottom samples (S-12 through S-16).

Excavation continued until five-point composite samples were collected from the sidewalls (S-1 through S-3, S-5, S-7, S-8, S-10, S-11, and S-17 through S-19) and bottom (S-12 through S-16 and S-20) of the excavation on July 12, 2023, and from the sidewalls (S-1 through S-3, S-5, S-7, S-8, S-10, and S-11) and the bottom (S-12 through S-16) on August 11, 2023, and from sidewall samples (S-1, S-8, and S-11) on August 25, 2023.

All samples were placed in laboratory prepared containers, properly labeled, immediately placed on ice, and hand delivered to Cardinal for analysis of chlorides by EPA Method 300.0. Samples S-17 through S-20 (collected on July 12, 2023) were also analyzed for TPH and BTEX, and sample S-1 (collected on July 12, 2023) was also analyzed for TPH. As previous samples collected from S-1 through S-16 reported BTEX concentrations below the test method detection limits, additional samples from those locations were not analyzed for BTEX.



Table 1 provides a summary of the laboratory results. Figure 2 shows the sample locations and concentrations. Appendix D provides a copy of the laboratory reports and chain-of-custody documentation. Appendix E provides a photographic log that documents assessment activities. Referring to Table 1, concentrations of benzene and BTEX were reported below the test method detection limits or Closure Criteria in each sample. Concentrations of TPH were reported above the Closure Criteria in samples S-18 (297 mg/kg), S-19 (768.4 mg/kg), and S-20 (224.5 mg/kg). All other samples reported TPH concentrations below the test method detection limits or Closure Criteria. Concentrations of chlorides were reported above the Closure Criteria in samples S-17 (22,600 mg/kg), S-18 (15,600 mg/kg), S-19 (5,460 mg/kg), and S-20 (4,720 mg/kg).

All excavated soil (1,728 cubic yards) was disposed of at GM, Inc. (GMI) from June 19 through August 16, 2023. Waste manifests are included in Appendix F.

4.6 Laboratory Analytical Data Quality Assurance/Quality Control Results

Laboratory data in Report Numbers H233220, H233556, H234349, and H234636 generated by Cardinal, 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 D.

5.0 Proposed Remediation and Reclamation Activities

Clearwater proposes to excavate impacted soil encompassing sample points S-17 through S-20 until five-point confirmation samples collected from the bottom and sidewalls of the excavation(s) report TPH and chloride concentrations below the NMOCD Closure Criteria. Complete horizontal and vertical delineation will be conducted during excavation/remediation. As initial BTEX concentrations were reported below the test method detection limits, confirmation samples will not be analyzed for BTEX.

Due to the large footprint of the Site, Clearwater requests a variance from the NMOCD requirement of one soil sample per 200 square feet for confirmation sampling, and requests composite confirmation sample collection be performed for each 400 square feet of excavation floor and each 30 linear feet of excavation sidewall.

All excavated material will be transported under manifest to GMI.

Upon receipt of laboratory results that all TPH and chloride concentrations are below the Closure Criteria, the excavation will be backfilled to grade with non-impacted similar material obtained from a landowner pit. From the base of the excavation to a depth of 2' bgs will be backfilled with caliche, and from a depth of 2' bgs to surface will be backfilled with topsoil. Pursuant to 19.15.29.13 NMAC, the impacted surface areas will be restored to pre-release conditions. Surface grading will be performed to near original conditions and contoured to prevent erosion and ponding, promote stability, and preserve storm water flow patterns.



Seeding of the backfilled excavation area will be conducted during the next favorable growing season following completion of remediation. The remediated area will be re-seeded by seed drill method using the NMSLO Coarse Seed Mix (planted in the amount specified in the pounds live seed [PSL] per acre), and fresh water will be applied for two consecutive weeks following re-seeding.

The affected soil covers a surface area of approximately 7,200 square feet, and it is estimated that a total of approximately 2,000 cubic yards of soil will be excavated and hauled to disposal (272 additional yards).

6.0 Reclamation Monitoring

The Site will be monitored for vegetation growth to ensure that the reclamation activities performed were sufficient. Annual inspections (at a minimum) will take place on the location until revegetation is consistent with local natural vegetation density.

7.0 Schedule of Implementation

Clearwater proposes to begin remediation activities within 60 days of ECO and NMOCD approval of this Site Characterization Report and Remediation Workplan. The ECO will be notified at least 2 business days prior to the start of remediation activities, and sample notifications will be provided to ECO and NMOCD at least 2 business days prior to sample collection(s).

Remediation activities are anticipated to be completed within 90 days of initiation, and a Remediation Summary and Closure Report for Incident # nAPP2523985227 will be submitted to the NMOCD and ECO within 30 days of receiving the laboratory results of final confirmation samples.

Seeding will be conducted during the next favorable growing season following completion of reclamation activities, and a Final Reclamation Report will be submitted to the ECO and NMOCD upon establishment of successful revegetation.

8.0 Distribution

Copy 1: Mike Bratcher

New Mexico Energy, Minerals, and Natural Resources Department

Oil Conservation Division

Via email at: Mike Bratcher@emnrd.nm.gov

Copy 2: Environmental Compliance Office

Via email at: ECO@nmslo.gov



TABLE

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TABLE 1 SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS CLEARWATER SWD, LLC SOUTH VACUUM #274 SWD 30-025-31722 June 9, 2023 Release

Sample ID	Sample Date	Sample Depth	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride
		(feet bgs)						l	per kilogram	(mg/kg)			
NMO	OCD Closu	ure Criteria	a	-	-	-	100	10	-	-	-	50	600
S-1	06/21/23	0-2	Excavated	<10.0	84.6	33.9	118.5	<0.050	<0.050	<0.050	<0.150	<0.300	10,900
	07/12/23	0-2	Excavated	<10.0	10.3	<10.0	10.3						6,400
	08/11/23 08/25/23	<i>0-6</i> 0-6	In Situ										752 416
S-2	06/21/23	0-2	Excavated	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	784
	07/12/23	0-2	Excavated										1,120
	08/11/23	0-6	In Situ										144
S-3	06/21/23	0-2	Excavated	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	7,860
	07/12/23	0-2	Excavated										4,000
	08/11/23	0-6	In Situ										224
S-4	06/21/23	0-2	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	528
S-5	06/21/23	0-2	Excavated	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	22,800
	07/12/23	0-2	Excavated										2,080
	08/11/23	0-6	In Situ										144
S-6	06/21/23	0-2	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0050	<0.150	<0.300	112
S-7	06/21/23	0-2	Excavated	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,960
	07/12/23 08/11/23	<i>0-2</i> 0-4.5	In Situ										2,000 288
S-8	06/21/23	0-2	Excavated	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,840
	07/12/23	0-2	Excavated										4,480
	08/11/23	<i>0-4.5</i> 0-4.5	Excavated In Situ										672 496
	08/25/23												
S-9	06/21/23	0-2	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	528
S-10	06/21/23	0-2	Excavated	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,200
	07/12/23	0-2	Excavated										2,040
	08/11/23	0-4.5	In Situ										64.0
S-11	06/21/23	0-2	Excavated	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,010
	07/12/23	0-2	Excavated										1,440
	08/11/23	0-4	Excavated										1,180
	08/25/23	0-4	In Situ										224
S-12	06/21/23	2	Excavated	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,230
	07/12/23	2.5	Excavated										1,040
	08/11/23	4.5	In Situ										128
S-13	06/21/23	2	Excavated	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	7,060
	07/12/23	2.5	Excavated										640
	08/11/23	4.5	In Situ										48.0
S-14	06/21/23	2	Excavated	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	7,240
	07/12/23	2.5	Excavated										800
	08/11/23	4.5	In Situ										80.0
S-15	06/21/23	2	Excavated	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	20,000
0.10	07/12/23	2.5	Excavated										656
	08/11/23	6	In Situ										80.0
S-16	06/21/23	2	Excavated	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16,800
3-10	06/21/23	2.5	Excavated	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150 	<0.300	1,200
	08/11/23	6	In Situ										176
0.47													
S-17	07/12/23	0-1	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	22,600
S-18	07/12/23	0-1	In Situ	<10.0	174	123	297	<0.050	<0.050	<0.050	<0.150	<0.300	15,600
S-19	07/12/23	0-1	In Situ	<10.0	687	81.4	768.4	<0.050	<0.050	<0.050	<0.150	<0.300	5,460
S-20	07/12/23	1	In Situ	<10.0	133	91.5	224.5	<0.050	<0.050	<0.050	<0.150	<0.300	4,720

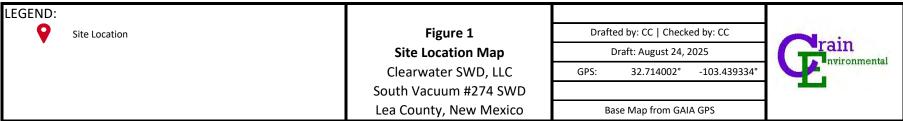
Notes:

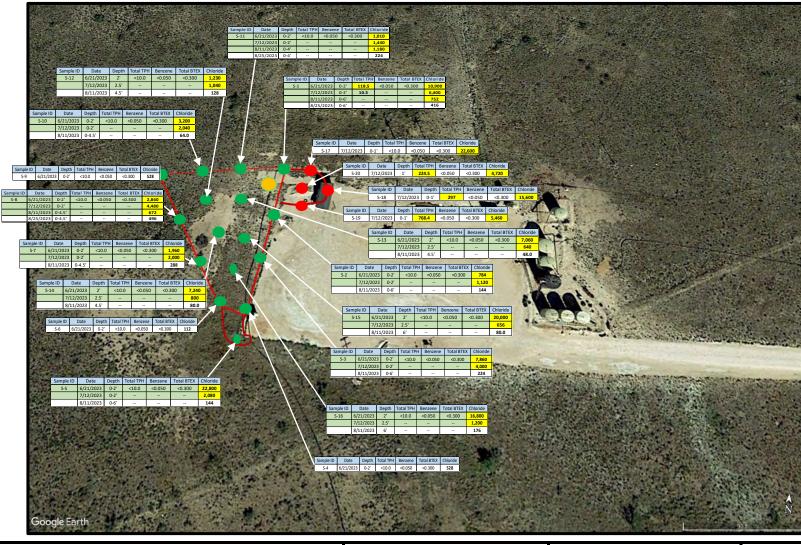
- 1. GRO: Gasoline Range Organics
- 2. DRO: Diesel Range Organics
- 3. MRO: Motor Oil Range Organics
- 4. -: No NMOCD Closure Criteria established.
- ${\it 5.}~{\it Bold}~{\it and}~{\it highlighting}~{\it indicates}~{\it the}~{\it COC}~{\it was}~{\it detected}~{\it above}~{\it the}~{\it NMOCD}~{\it Closure}~{\it Criteria}.$
- 6. < indicates the COC was below the appropriate laboratory method/sample detection limit
- 7. Yellow highlighting indicates the COC concentration exceeds the NMOCD Closure Criteria
- 8. Green highlighting indicates the soil has been excavated and disposed.
- 9. -: Samples were not collected for the constituent.



FIGURES







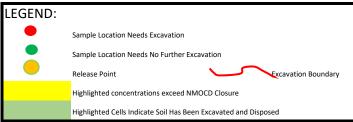


Figure 2 Soil Sample Analytical Results Map Clearwater SWD, LLC South Vacuum #274 SWD June 9, 2023 Release Lea County, New Mexico

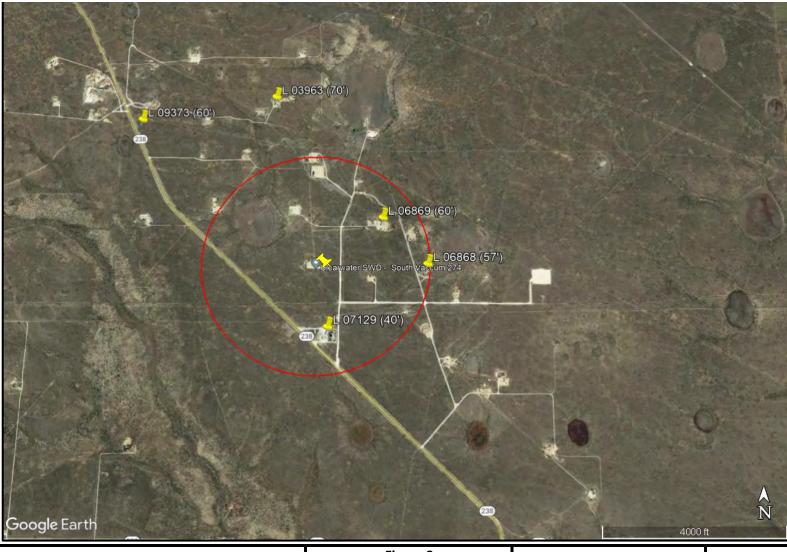
Drafted by: CC | Checked by: CC

Draft: August 24, 2025

GPS: 32.714002° -103.439334°

Base Map from Google Earth









Site and Water Well Locations With Depth to Groundwater (feet below ground surface)



0.5 Mile Radius

Base Map from Google Earth Pro

Figure 3 Wellhead Protection Area Map

Clearwater SWD, LLC South Vacuum #274 SWD Lea County, New Mexico Drafted by: CC | Checked by: CC

Draft: August 24, 2025

GPS: 32.714002° -103.439334



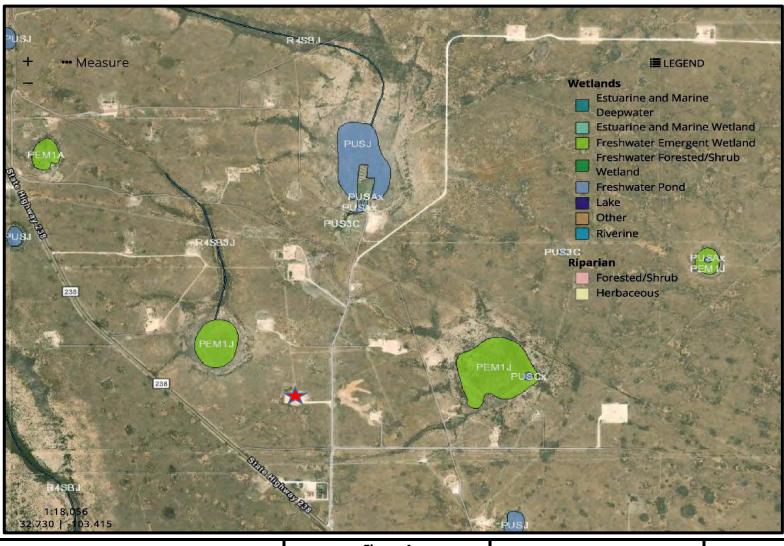




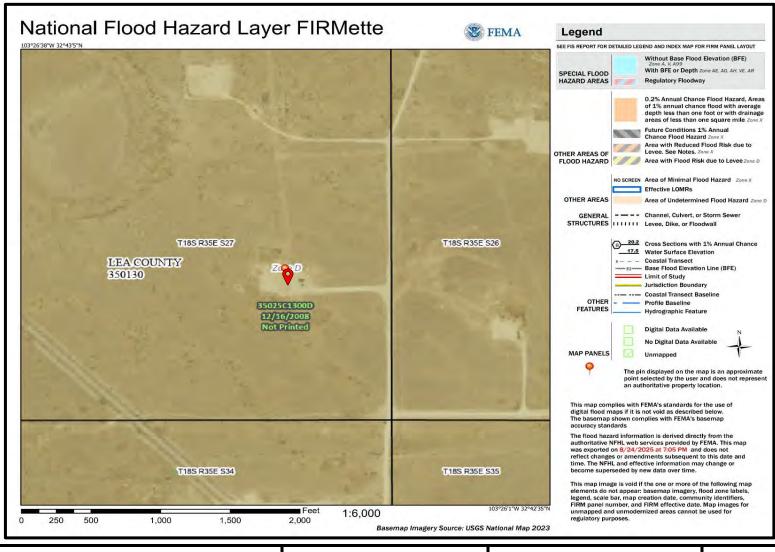
Figure 4
National Wetlands
Inventory Map
Clearwater SWD, LLC
South Vacuum #274 SWD
Lea County, New Mexico

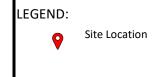
Drafted by: CC | Checked by: CC

Draft: August 24, 2025

GPS: 32.714002° -103.439334°







Base Map from FEMA

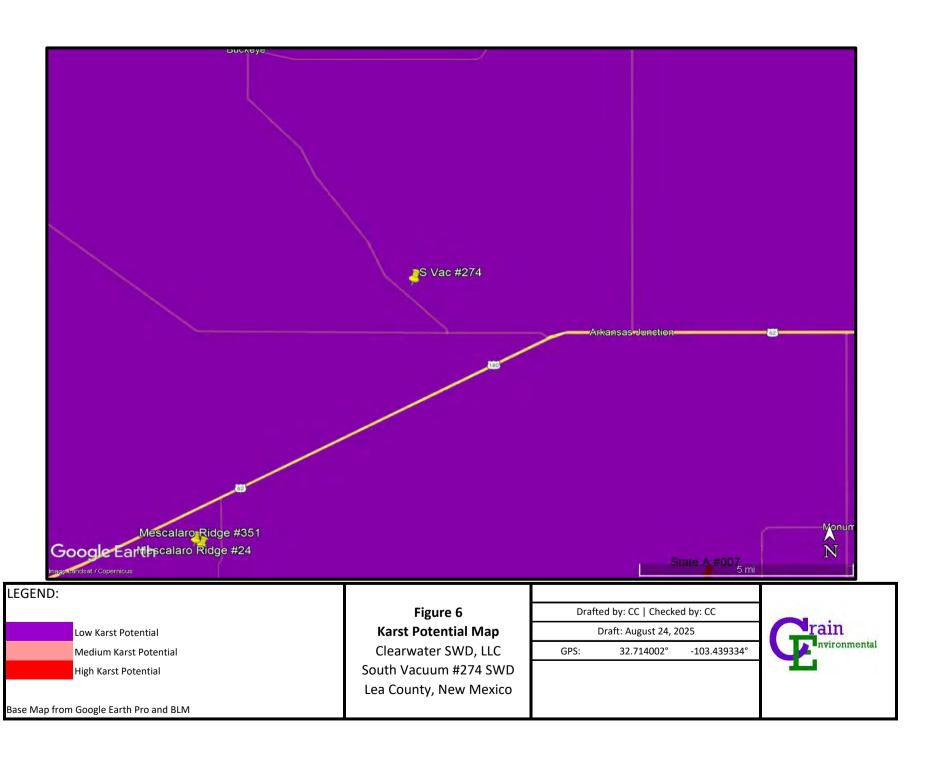
Figure 5
FEMA Floodplain Map
Clearwater SWD, LLC
South Vacuum #274 SWD
Lea County, New Mexico

Drafted by: CC | Checked by: CC

Draft: August 24, 2025

GPS: 32.714002° -103.439334°







APPENDIX A: NMOSE WATER WELL RECORDS

Point of Diversion Summary

Tws

18S

35E

647026.0

Sec

26

quarters are 1=NW 2=NE 3=SW 4=SE
quarters are smallest to largest
NAD83 UTM in meters

Q4

SW

Rng X Y Map

3620666.0 *

* UTM location was derived from PLSS - see Help

Q64

NW

POD Nbr

L 06868

Driller License: 46 **Driller Company:** ABBOTT BROTHERS COMPANY

Q16

SE

Driller Name:

Well Tag

 Drill Start Date:
 1971-10-30
 Drill Finish Date:
 1971-11-01
 Plug Date:
 1972-08-21

 Log File Date:
 1971-11-03
 PCW Rcv Date:
 Source:
 Shallow

Pump Type: Pipe Discharge Size: Estimated Yield:

Casing Size: 6.63 Depth Well: 110 Depth Water: 57

Water Bearing Stratifications:

Тор	Bottom	Description
57	110	Sandstone/Gravel/Conglomerate

Casing Perforations:

Тор	Bottom
68	110

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

8/24/25 12:07 PM MST Point of Diversion Summary

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Driller License:

Point of Diversion Summary

NAD83 UTM in meters

quarters are 1=NW 2=NE 3=SW 4=SE quarters are smallest to largest

Driller Company:

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Υ	Мар
	L 06869		NW	SW	26	18S	35E	646717.0	3620966.0 *	•

* UTM location was derived from PLSS - see Help

531

Driller Name:					
Drill Start Date:	1971-11-09	Drill Finish Date:	1971-11-11	Plug Date:	1972-12-21
Log File Date:	1971-11-16	PCW Rcv Date:		Source:	Shallow
Pump Type: Pipe Discharge Size:				Estimated Yield:	
Casing Size:	7.00	Depth Well:	125	Depth Water:	60

GRIFFIN WATER WELL SERVICE

Water Bearing Stratifications:

Тор	Bottom	Description
70	125	Sandstone/Gravel/Conglomerate

Casing Perforations:

Тор	Bottom
105	125

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

8/24/25 12:09 PM MST Point of Diversion Summary

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Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE quarters are smallest to largest

Depth Well:

NAD83 UTM in meters

Depth Water:

40

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Υ	Мар
	L 07129	SE	SW	SW	34	18S	35E	645237.0	3618830.0 *	•

* UTM location was derived from PLSS - see Help

Driller License: Driller Company: 208 VAN NOY, W.L. **Driller Name:** W L VAN NOY **Drill Start Date:** 1973-10-12 **Drill Finish Date:** 1973-10-15 Plug Date: Shallow Log File Date: 1973-10-24 **PCW Rcv Date:** Source: Pump Type: **Pipe Discharge Size: Estimated Yield:**

60

Water Bearing Stratifications:

6.63

Тор	Bottom	Description
50	60	Other/Unknown

Casing Perforations:

Тор	Bottom
45	55

Casing Size:

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

8/24/25 12:10 PM MST Point of Diversion Summary

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APPENDIX B: NMSLO CULTURAL RESOURCES COVER SHEET



Stephanie Garcia Richard, Commissioner of Public Lands
State of New Mexico

NMSLO Cultural Resources Cover Sheet Exhibit 25-08-04

NMCRIS Activity Number: 159334 (if applicable) Exhibit Type (select one) ARMS Inspection/Review - Summarize the results (select one): (A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area. (B) The entire area of potential effect or project area has been previously surveyed to current standards and cultural properties were found within the survey area. (C) The entire area of potential effect or project area has **not** been previously surveyed or has not been surveyed to current standards. A complete archaeological survey will be conducted and submitted for review. **Archaeological Survey** Findings: ✓ **Negative** - No further archaeological review is required. No Positive - Have avoidance and protection measures been devised? Select one: **Comments:** The cultural survey located no cultural materials in the project area of the proposed South Vacuum #274 SWD Pad reclamation project for Gandy Corporation represented by Crain Environmental. These findings will allow for archaeological clearance to be recommended for **Project Details:** NMSLO Lease Number (if available): Cultural Resources Consultant: APAC Jeffrey Pangburn Project Proponent (Applicant): Gandy Corporation represented by Crain Environmental Project Title/Description: An Archaeological Survey for the Existing South Vacuum #274 SWD Pad Reclamation in Lea County, New Mexico **Project Location:** County(ies): Lea County, New Mexico PLSS/Section/Township/Range): T18S R35E S27 For NMSLO Agency Use Only: NMSLO Lease Number: Acknowledgment-Only: Lease Analyst: Date Exhibit Routed to Cultural Resources Office:

No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule.

Form Revised 12 22



APPENDIX C: BIOLOGICAL DESKTOP REVIEW



United States Department of the Interior



FISH AND WILDLIFE SERVICE

New Mexico Ecological Services Field Office 2105 Osuna Road Ne Albuquerque, NM 87113-1001 Phone: (505) 346-2525 Fax: (505) 346-2542

In Reply Refer To: 08/24/2025 19:10:46 UTC

Project Code: 2025-0140053

Project Name: South Vacuum #274 SWD

Subject: List of threatened and endangered species that may occur in your proposed project

location or may be affected by your proposed project

To Whom It May Concern:

Thank you for your recent request for information on federally listed species and important wildlife habitats that may occur in your project area. The U.S. Fish and Wildlife Service (Service) has responsibility for certain species of New Mexico wildlife under the Endangered Species Act (ESA) of 1973 as amended (16 USC 1531 et seq.), the Migratory Bird Treaty Act as amended (16 USC 701-715), and the Bald and Golden Eagle Protection Act as amended (16 USC 668-668(c)). We are providing the following guidance to assist you in determining which federally imperiled species may or may not occur within your project area, and to recommend some conservation measures that can be included in your project design.

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the ESA of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the ESA, the accuracy of this species list should be verified after 90 days. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the ESA is to provide a means whereby threatened and endangered species and

08/24/2025 19:10:46 UTC

Project code: 2025-0140053

the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the ESA and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (NEPA; 42 USC 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at https://www.fws.gov/sites/default/files/documents/ endangered-species-consultation-handbook.pdf.

Candidate Species and Other Sensitive Species

A list of candidate and other sensitive species in your area is also attached. Candidate species and other sensitive species are species that have no legal protection under the ESA, although we recommend that candidate and other sensitive species be included in your surveys and considered for planning purposes. The Service monitors the status of these species. If significant declines occur, these species could potentially be listed. Therefore, actions that may contribute to their decline should be avoided.

Lists of sensitive species including State-listed endangered and threatened species are compiled by New Mexico State agencies. These lists, along with species information, can be found at the following websites.

Biota Information System of New Mexico (BISON-M): www.bison-m.org

New Mexico State Forestry. The New Mexico Endangered Plant Program: https://www.emnrd.nm.gov/sfd/rare-plants/

New Mexico Rare Plant Technical Council, New Mexico Rare Plants: nmrareplants.unm.edu

Natural Heritage New Mexico, online species database: nhnm.unm.edu

WETLANDS AND FLOODPLAINS

Under Executive Orders 11988 and 11990, Federal agencies are required to minimize the destruction, loss, or degradation of wetlands and floodplains, and preserve and enhance their natural and beneficial values. These habitats should be conserved through avoidance, or mitigated to ensure that there would be no net loss of wetlands function and value.

We encourage you to use the National Wetland Inventory (NWI) maps in conjunction with ground-truthing to identify wetlands occurring in your project area. The Service's NWI program website, www.fws.gov/wetlands/Data/Mapper.html, integrates digital map data with other resource information. We also recommend you contact the U.S. Army Corps of Engineers for permitting requirements under section 404 of the Clean Water Act if your proposed action could impact floodplains or wetlands.

MIGRATORY BIRDS

In addition to responsibilities to protect threatened and endangered species under the ESA, there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the Service (50 CFR 10.12 and 16 USC 668(a)). For more information regarding these Acts, see https://www.fws.gov/program/migratory-bird-permit/what-we-do.

It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a Federal nexus) or a Bird/Eagle Conservation Plan (when there is no Federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see https://www.fws.gov/library/collections/threats-birds. We also recommend review of the Birds of Conservation Concern list (https://www.fws.gov/media/birds-conservation-concern-2021) to fully evaluate the effects to the birds at your site. This list identifies migratory and non-migratory bird species (beyond those already designated as federally threatened or endangered) that represent top conservation priorities for the Service, and are potentially threatened by disturbance, habitat impacts, or other project development activities.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 thereby provides additional protection for both migratory birds and migratory bird habitat. Please visit https://www.fws.gov/partner/council-conservation-migratory-birds for information regarding the implementation of Executive Order 13186.

We suggest you contact the New Mexico Department of Game and Fish, and the New Mexico

Energy, Minerals, and Natural Resources Department, Forestry Division for information regarding State protected and at-risk species fish, wildlife, and plants.

For further consultation with the Service we recommend submitting inquiries or assessments electronically to our incoming email box at nmesfo@fws.gov, where it will be more promptly routed to the appropriate biologist for review.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
- Bald & Golden Eagles
- Migratory Birds

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New Mexico Ecological Services Field Office 2105 Osuna Road Ne Albuquerque, NM 87113-1001 (505) 346-2525

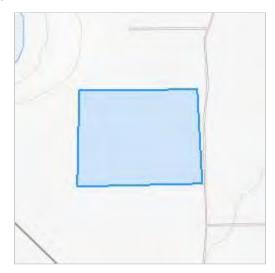
PROJECT SUMMARY

Project Code: 2025-0140053

Project Name: South Vacuum #274 SWD
Project Type: Easement / Right-of-Way
Project Description: Salt Water Disposal facility

Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@32.71384279999995,-103.43867655987142,14z



Counties: Lea County, New Mexico

ENDANGERED SPECIES ACT SPECIES

There is a total of 3 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

BIRDS

NAME **STATUS**

Lesser Prairie-chicken Tympanuchus pallidicinctus

Endangered

Population: Southern DPS

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1924

General project design guidelines:

https://ipac.ecosphere.fws.gov/project/DHHTOZQJMRCTZMGKTKVYJMPNWA/

documents/generated/9126.pdf

Northern Aplomado Falcon Falco femoralis septentrionalis

Population: U.S.A (AZ, NM)

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1923

General project design guidelines:

https://ipac.ecosphere.fws.gov/project/DHHTOZQJMRCTZMGKTKVYJMPNWA/

documents/generated/8928.pdf

Experimental

Population, Non-Essential

INSECTS

NAME **STATUS**

Monarch Butterfly *Danaus plexippus*

Proposed

There is **proposed** critical habitat for this species. Your location does not overlap the critical

Species profile: https://ecos.fws.gov/ecp/species/9743

Threatened

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

BALD & GOLDEN EAGLES

Bald and Golden Eagles are protected under the Bald and Golden Eagle Protection Act ² and the Migratory Bird Treaty Act (MBTA) ¹. Any person or organization who plans or conducts activities that may result in impacts to Bald or Golden Eagles, or their habitats, should follow appropriate regulations and consider implementing appropriate avoidance and minimization measures, as described in the various links on this page.

- 1. The Bald and Golden Eagle Protection Act of 1940.
- 2. The Migratory Birds Treaty Act of 1918.
- 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

Bald and Golden Eagles are protected under the Bald and Golden Eagle Protection Act and the Migratory Bird Treaty Act (MBTA). Any person or organization who plans or conducts activities that may result in impacts to Bald or Golden Eagles, or their nests, should follow appropriate regulations and implement required avoidance and minimization measures, as described in the various links on this page.

The data in this location indicates that no eagles have been observed in this area. This does not mean eagles are not present in your project area, especially if the area is difficult to survey. Please review the 'Steps to Take When No Results Are Returned' section of the Supplemental Information on Migratory Birds and Eagles document to determine if your project is in a poorly surveyed area. If it is, you may need to rely on other resources to determine if eagles may be present (e.g. your local FWS field office, state surveys, your own surveys).

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats, should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "Supplemental Information on Migratory Birds and Eagles".

MIGRATORY BIRDS

The Migratory Bird Treaty Act (MBTA) ¹ prohibits the take (including killing, capturing, selling, trading, and transport) of protected migratory bird species without prior authorization by the Department of Interior U.S. Fish and Wildlife Service (Service).

- 1. The Migratory Birds Treaty Act of 1918.
- 2. The Bald and Golden Eagle Protection Act of 1940.
- 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the "Probability of Presence Summary" below to see when these birds are most likely to be present and breeding in your project area.

NAME BREEDING SEASON

Chestnut-collared Longspur *Calcarius ornatus*

Breeds May 1 to Aug 10

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecp/species/9437

PROBABILITY OF PRESENCE SUMMARY

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "Supplemental Information on Migratory Birds and Eagles", specifically the FAQ section titled "Proper

Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

Breeding Season (

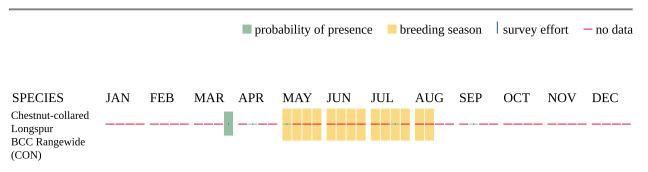
Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

Survey Effort (|)

Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data (-)

A week is marked as having no data if there were no survey events for that week.



Additional information can be found using the following links:

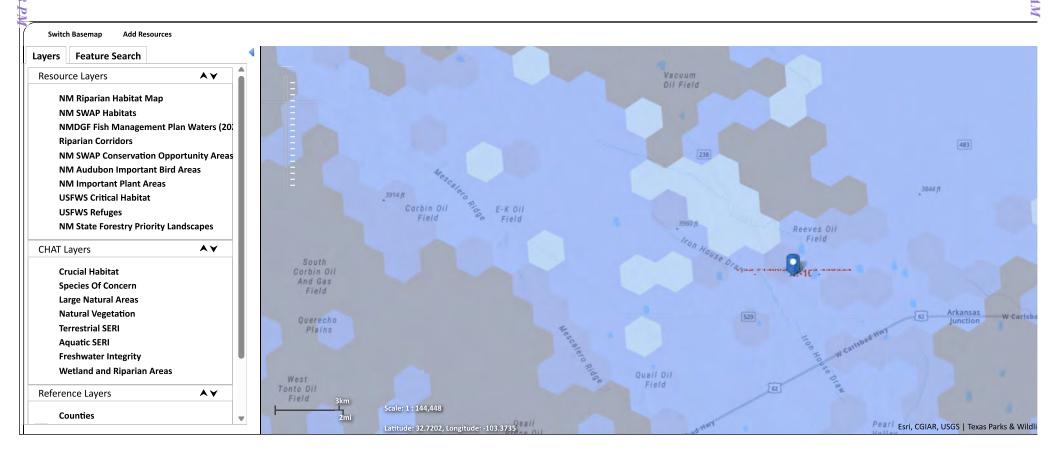
- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide avoidance and minimization measures for birds
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

eleased to Imaging:

9/79/2025

- new mexico department of game and fish (http://www.wildlife.state.nm.us/)
 New Mexico Conservation Information System (https://nhnm.unm.edu/data)
- BISON-M (http://www.bison-m.org/)
- NM ERT (https://nmert.org)
- NM CHAT (http://nmchat.org/)
- SWAP (http://nmswap.org/)
- Share with Wildlife (http://www.wildlife.state.nm.us/conservation/share-with-wildlife/)

Environmental Review Tool



Received by OCD: 8/28/2025 10:40:47



APPENDIX D: LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

South Vacuum #274 SWD Site Characterization Report and Remediation Workplan



June 26, 2023

CINDY CRAIN

CRAIN ENVIROMENTAL

2925 E. 17TH ST.

ODESSA, TX 79761

RE: SOUTH VACUUM #274 FLOW LINE

Enclosed are the results of analyses for samples received by the laboratory on 06/21/23 14:53.

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 accreditated 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)

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



06/21/2023

Cool & Intact

Tamara Oldaker

Soil

Analytical Results For:

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

Fax To:

Received: 06/21/2023 Reported: 06/26/2023

06/26/2023 Sampling Type: SOUTH VACUUM #274 FLOW LINE Sampling Condition:

Sampling Date:

Sample Received By:

Project Name: SOUTH VACUUM
Project Number: NONE GIVEN

Project Location: GANDY - LEA CO NM

Sample ID: S - 1 (H233220-01)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/23/2023	ND	2.16	108	2.00	2.48	
Toluene*	<0.050	0.050	06/23/2023	ND	2.11	106	2.00	2.50	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.06	103	2.00	1.98	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.21	103	6.00	2.24	
Total BTEX	<0.300	0.300	06/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10900	16.0	06/22/2023	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/23/2023	ND	176	88.2	200	1.01	
DRO >C10-C28*	84.6	10.0	06/23/2023	ND	167	83.7	200	0.836	
EXT DRO >C28-C36	33.9	10.0	06/23/2023	ND					
Surrogate: 1-Chlorooctane	96.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.2	% 49.1-14	8						

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 and any other cause whistoever 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 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 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. Keine



Analytical Results For:

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

Fax To:

Received: 06/21/2023 Reported: 06/26/2023

SOUTH VACUUM #274 FLOW LINE

Project Name: Project Number: NONE GIVEN

Project Location: GANDY - LEA CO NM Sampling Date: 06/21/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: S - 2 (H233220-02)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/23/2023	ND	2.16	108	2.00	2.48	
Toluene*	<0.050	0.050	06/23/2023	ND	2.11	106	2.00	2.50	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.06	103	2.00	1.98	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.21	103	6.00	2.24	
Total BTEX	<0.300	0.300	06/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	06/22/2023	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/23/2023	ND	176	88.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	167	83.7	200	0.836	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					
Surrogate: 1-Chlorooctane	93.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.3	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 06/21/2023 Reported: 06/26/2023

SOUTH VACUUM #274 FLOW LINE

mg/kg

Project Name: SOUTH VACU
Project Number: NONE GIVEN

Project Location: GANDY - LEA CO NM

Sampling Date: 06/21/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 3 (H233220-03)

BTEX 8021B

	9/	9	7111411720						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/23/2023	ND	2.16	108	2.00	2.48	
Toluene*	<0.050	0.050	06/23/2023	ND	2.11	106	2.00	2.50	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.06	103	2.00	1.98	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.21	103	6.00	2.24	
Total BTEX	<0.300	0.300	06/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7860	16.0	06/22/2023	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/23/2023	ND	176	88.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	167	83.7	200	0.836	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					
Surrogate: 1-Chlorooctane	95.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.5	% 49.1-14	8						

Analyzed By: MS

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Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 06/21/2023 Reported: 06/26/2023

SOUTH VACUUM #274 FLOW LINE

Project Name: SOUTH VACU
Project Number: NONE GIVEN

Project Location: GANDY - LEA CO NM

Sampling Date: 06/21/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 4 (H233220-04)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/23/2023	ND	2.16	108	2.00	2.48	
Toluene*	<0.050	0.050	06/23/2023	ND	2.11	106	2.00	2.50	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.06	103	2.00	1.98	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.21	103	6.00	2.24	
Total BTEX	<0.300	0.300	06/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	06/22/2023	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/23/2023	ND	176	88.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	167	83.7	200	0.836	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					
Surrogate: 1-Chlorooctane	94.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.8	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Fax To:

Received: 06/21/2023 Reported: 06/26/2023

SOUTH VACUUM #274 FLOW LINE

Project Name: SOUTH VACU
Project Number: NONE GIVEN

Project Location: GANDY - LEA CO NM

Sampling Date: 06/21/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 5 (H233220-05)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/23/2023	ND	2.16	108	2.00	2.48	
Toluene*	<0.050	0.050	06/23/2023	ND	2.11	106	2.00	2.50	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.06	103	2.00	1.98	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.21	103	6.00	2.24	
Total BTEX	<0.300	0.300	06/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22800	16.0	06/22/2023	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/23/2023	ND	176	88.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	167	83.7	200	0.836	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					
Surrogate: 1-Chlorooctane	88.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.2	% 49.1-14	8						

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Analytical Results For:

CRAIN ENVIROMENTAL **CINDY CRAIN** 2925 E. 17TH ST. ODESSA TX, 79761 Fax To:

Received: 06/21/2023

06/26/2023

Project Name: SOUTH VACUUM #274 FLOW LINE

NONE GIVEN

Project Location: GANDY - LEA CO NM Sampling Date: 06/21/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: S - 6 (H233220-06)

Reported:

Project Number:

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/23/2023	ND	2.16	108	2.00	2.48	
Toluene*	<0.050	0.050	06/23/2023	ND	2.11	106	2.00	2.50	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.06	103	2.00	1.98	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.21	103	6.00	2.24	
Total BTEX	<0.300	0.300	06/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/22/2023	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/23/2023	ND	176	88.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	167	83.7	200	0.836	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					
Surrogate: 1-Chlorooctane	94.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.1	% 49.1-14	8						

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Analytical Results For:

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

Fax To:

Received: 06/21/2023 Reported: 06/26/2023

SOUTH VACUUM #274 FLOW LINE

Project Name: Project Number: NONE GIVEN

Project Location: GANDY - LEA CO NM Sampling Date: 06/21/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: S - 7 (H233220-07)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/23/2023	ND	2.16	108	2.00	2.48	
Toluene*	<0.050	0.050	06/23/2023	ND	2.11	106	2.00	2.50	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.06	103	2.00	1.98	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.21	103	6.00	2.24	
Total BTEX	<0.300	0.300	06/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1960	16.0	06/22/2023	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/23/2023	ND	176	88.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	167	83.7	200	0.836	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					
Surrogate: 1-Chlorooctane	88.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.2	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 06/21/2023 Reported: 06/26/2023

SOUTH VACUUM #274 FLOW LINE

Project Name: Project Number: NONE GIVEN

Project Location: GANDY - LEA CO NM Sampling Date: 06/21/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: S - 8 (H233220-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/23/2023	ND	2.16	108	2.00	2.48	
Toluene*	<0.050	0.050	06/23/2023	ND	2.11	106	2.00	2.50	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.06	103	2.00	1.98	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.21	103	6.00	2.24	
Total BTEX	<0.300	0.300	06/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2840	16.0	06/22/2023	ND	416	104	400	3.77	QM-07
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/23/2023	ND	176	88.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	167	83.7	200	0.836	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					
Surrogate: 1-Chlorooctane	89.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.7	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

CRAIN ENVIROMENTAL **CINDY CRAIN** 2925 E. 17TH ST. ODESSA TX, 79761 Fax To:

06/21/2023 06/26/2023

SOUTH VACUUM #274 FLOW LINE

Project Number: NONE GIVEN

Project Location: GANDY - LEA CO NM Sampling Date: 06/21/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: S - 9 (H233220-09)

Received:

Reported:

Project Name:

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/23/2023	ND	2.16	108	2.00	2.48	
Toluene*	<0.050	0.050	06/23/2023	ND	2.11	106	2.00	2.50	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.06	103	2.00	1.98	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.21	103	6.00	2.24	
Total BTEX	<0.300	0.300	06/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	06/22/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/23/2023	ND	176	88.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	167	83.7	200	0.836	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					
Surrogate: 1-Chlorooctane	93.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.2	% 49.1-14	8						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received: 06/21/2023 Reported: 06/26/2023

SOUTH VACUUM #274 FLOW LINE

Project Number: NONE GIVEN

Project Location: GANDY - LEA CO NM

Sampling Date: 06/21/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 10 (H233220-10)

Project Name:

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/23/2023	ND	2.16	108	2.00	2.48	
Toluene*	<0.050	0.050	06/23/2023	ND	2.11	106	2.00	2.50	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.06	103	2.00	1.98	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.21	103	6.00	2.24	
Total BTEX	<0.300	0.300	06/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	06/22/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/23/2023	ND	176	88.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	167	83.7	200	0.836	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					
Surrogate: 1-Chlorooctane	88.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.4	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Received: 06/21/2023 Reported: 06/26/2023

SOUTH VACUUM #274 FLOW LINE

Project Number: NONE GIVEN

Project Location: GANDY - LEA CO NM

Sampling Date: 06/21/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 11 (H233220-11)

Project Name:

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/23/2023	ND	2.16	108	2.00	2.48	
Toluene*	<0.050	0.050	06/23/2023	ND	2.11	106	2.00	2.50	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.06	103	2.00	1.98	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.21	103	6.00	2.24	
Total BTEX	<0.300	0.300	06/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	06/22/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/23/2023	ND	176	88.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	167	83.7	200	0.836	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					
Surrogate: 1-Chlorooctane	76.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	67.8	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 06/21/2023 Reported: 06/26/2023

SOUTH VACUUM #274 FLOW LINE

Project Number: NONE GIVEN

Project Location: GANDY - LEA CO NM Sampling Date: 06/21/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: S - 12 (H233220-12)

Project Name:

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/23/2023	ND	2.16	108	2.00	2.48	
Toluene*	<0.050	0.050	06/23/2023	ND	2.11	106	2.00	2.50	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.06	103	2.00	1.98	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.21	103	6.00	2.24	
Total BTEX	<0.300	0.300	06/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	06/22/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/23/2023	ND	176	88.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	167	83.7	200	0.836	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					
Surrogate: 1-Chlorooctane	90.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.4	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 06/21/2023 Reported: 06/26/2023

SOUTH VACUUM #274 FLOW LINE

Project Number: NONE GIVEN

Project Location: GANDY - LEA CO NM

Sampling Date: 06/21/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 13 (H233220-13)

Project Name:

Analyte Result Reporting Limit Analyzed Method Blank BS % Benzene* <0.050 0.050 06/23/2023 ND 2.16 7 Toluene* <0.050 0.050 06/23/2023 ND 2.11 2.06 Ethylbenzene* <0.050 0.050 06/23/2023 ND 2.06 2.06 Total Xylenes* <0.150 0.150 06/23/2023 ND 6.21 6.21 Total BTEX <0.300 0.300 06/23/2023 ND 6.21 6.21	108 106 103 103	2.00 2.00 2.00 2.00 6.00	RPD 2.48 2.50 1.98	Qualifier
Toluene* <0.050 0.050 06/23/2023 ND 2.11 Ethylbenzene* <0.050 0.050 06/23/2023 ND 2.06 Total Xylenes* <0.150 0.150 06/23/2023 ND 6.21	106 103	2.00 2.00	2.50	
Ethylbenzene* <0.050 0.050 06/23/2023 ND 2.06 Total Xylenes* <0.150 0.150 06/23/2023 ND 6.21	103	2.00		
Total Xylenes* <0.150 0.150 06/23/2023 ND 6.21			1.98	
	103	6.00		
Total BTEX <0.300 0.300 06/23/2023 ND			2.24	
Surrogate: 4-Bromofluorobenzene (PID 104 % 71.5-134				
Chloride, SM4500Cl-B mg/kg Analyzed By: AC				
Analyte Result Reporting Limit Analyzed Method Blank BS %	6 Recovery	True Value QC	RPD	Qualifier
Chloride 7060 16.0 06/22/2023 ND 416	104	400	3.77	
TPH 8015M mg/kg Analyzed By: MS				
Analyte Result Reporting Limit Analyzed Method Blank BS %	6 Recovery	True Value QC	RPD	Qualifier
GRO C6-C10* <10.0 10.0 06/23/2023 ND 176	88.2	200	1.01	
DRO >C10-C28* <10.0 10.0 06/23/2023 ND 167	83.7	200	0.836	
EXT DRO >C28-C36 <10.0 10.0 06/23/2023 ND				
Surrogate: 1-Chlorooctane 72.3 % 48.2-134				
Surrogate: 1-Chlorooctadecane 64.7 % 49.1-148				

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Celey D. Keine



Analytical Results For:

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

Fax To:

Received: 06/21/2023 Reported: 06/26/2023

Project Name: SOUTH VACUUM #274 FLOW LINE

ma/ka

Project Number: NONE GIVEN

Project Location: GANDY - LEA CO NM

Sampling Date: 06/21/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 14 (H233220-14)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/23/2023	ND	2.16	108	2.00	2.48	
Toluene*	<0.050	0.050	06/23/2023	ND	2.11	106	2.00	2.50	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.06	103	2.00	1.98	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.21	103	6.00	2.24	
Total BTEX	<0.300	0.300	06/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7240	16.0	06/22/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/23/2023	ND	176	88.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	167	83.7	200	0.836	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					
Surrogate: 1-Chlorooctane	88.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.8	% 49.1-14	8						

Applyzod By: MC

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Analytical Results For:

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

Fax To:

Received: 06/21/2023 Reported:

06/26/2023 SOUTH VACUUM #274 FLOW LINE

79.0 %

49.1-148

Project Name: Project Number: NONE GIVEN

Project Location: GANDY - LEA CO NM Sampling Date: 06/21/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: S - 15 (H233220-15)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/23/2023	ND	2.16	108	2.00	2.48	
Toluene*	<0.050	0.050	06/23/2023	ND	2.11	106	2.00	2.50	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.06	103	2.00	1.98	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.21	103	6.00	2.24	
Total BTEX	<0.300	0.300	06/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20000	16.0	06/22/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/23/2023	ND	176	88.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	167	83.7	200	0.836	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					
Surrogate: 1-Chlorooctane	86.3	% 48.2-13	4						

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Surrogate: 1-Chlorooctadecane



Analytical Results For:

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

Fax To:

Received: 06/21/2023 Reported: 06/26/2023

SOUTH VACUUM #274 FLOW LINE

Project Number: NONE GIVEN

Project Location: GANDY - LEA CO NM Sampling Date: 06/21/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Tamara Oldaker

Sample ID: S - 16 (H233220-16)

Project Name:

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/23/2023	ND	2.16	108	2.00	2.48	
Toluene*	<0.050	0.050	06/23/2023	ND	2.11	106	2.00	2.50	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.06	103	2.00	1.98	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.21	103	6.00	2.24	
Total BTEX	<0.300	0.300	06/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16800	16.0	06/22/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/22/2023	ND	161	80.7	200	7.25	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	181	90.4	200	7.10	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					
Surrogate: 1-Chlorooctane	84.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.7	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240

Page 10f2

Page 19 of 20

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(575) 393-2326 FAX (575) 393-	2476																41.7/2	10	DEC	HEC.	-		
Company Name:											LI	L TO	-				AN	ALYS	SIS	KEQ	UES	1		$\overline{}$
roject Manager	: Cindy Crain								. #:		_	N												
Address: 25	925 E. 17th St.			F								ndy Ca	P.											
City: Oc	VESSA State: TX	Zip):	79	16)							randy												
	5) 441-7244 Fax#: -							Add	dres	s: P.	0.	Box 1	474											
Project #:	- Project Own	ner: (YPE	arm	ter			City	<i>y</i> : .	Lovi	29	ton.												
Project Name:	South Yacuum #274 Fle	W L	in	0				Sta	te:	NM	Zi	ip: 88	260											
	Lea Co., NM											5)399-												
Sampler Name:	/\ /\ /\ \								_		_	396-												
FOR LAB USE ONLY	- /		Γ		M	ATRI	X	-	PRE	SERV.	1	SAMP	LING	3		V)	. 1							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMF	N N	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL ~		DATE	TIME	774 8015	BTB	Chloride								
120000	5-1	C	1			X				X	4	1/21/23		\geq	\times	>		_	-	-	-		-	-
2	5-2										L		1005	\sim	\geq	\geq	-	-	+	-	-	-	-	-
3	5-3									1	L		1010	X	\times	\geq	-	+	+	+	+	-	-	-
4	5-4		Ш							1	l		1015	\times	\times			-	+	-	+	+		
5	5-5	_	\perp			1	+	Н		+	ŀ		1020	X		$\langle \rangle$	-	+	+	-	-	\pm	_	
6	5-6	-	1	H	-	H	+	H		+	ŀ	-	1025					1	\pm	_				
7	5-7		\mathbb{H}	1	-	+	+	H		-	ł	-	1030	K					+					
8	5-8	-	+	1		+	+				1		1040	\times	X									
9	5-9				,		+			V	t	V	1045	X	\times									
10	5 - 10	for any cl	aim ari	sing who	ther ba	sed in o	contract	or ton	t, shall	be limited	i to t	the amount paid		r 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 consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

ffiliates or successors arising out of or related to the pe	formance of services hereunder by Cardina Date: 6/9///2 Re	I, regardless of whether such claim is base eceived By:	d upon any of the above stated r	Verbal Result: □ Yes ♣ No Add All Results are emailed. Please provide E	l'I Phone #:
Cirdy Crain Relinquished By:	Time: 453	Sullette La	1//////////////////////////////////////	The state of the s	Logardy @ gardy corporation. con
	Time:				/ Canada
Delivered By: (Circle One)	Observed Temp. °C 5	Sample Condition Cool Intact	CHECKED BY: (Initials)	Turnaround Time: Standard Rush	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C ☐ Yes ☐ Yes
Sampler - UPS - Bus - Other:	Corrected Temp. °C	9 Yes Yes	Ao.	Thermometer ID #113 Correction Factor -0.6°C	□ Nc □ No Corrected Temp. °C

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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Tage 2 of	2

Page 20 of 20

(575) 393-2326 FAX (575) 393-24. Company Name: Crain Environmental		_			_				1	BIL	L TO					ANAL	/SIS	RE	QUES	T	
Project Manager: Cindy Crain							P.C). #:													
Address: 2925 E. 17th 5t.							Co	mpa	ny	: 6	andy a	rp.									
A second	Zip:	7	19	761					1		Garo										
Phone #: (575) 441-7244 Fax #:								dres)		/									
	1	lon	-M	inte	,		Cit	y:													
Project Name: South Vacuum # 274 Flor							Sta	te:		- 2	Zip:										
Project Location: Lea Con NM							Ph	one	#:				2								
Sampler Name: Cindy Crain							Fa	x #:					8		Ι.						
FOR LAB USE ONLY				M	ATRI	IX		PRE	ESE	RV.	SAMP	LING	13		7						- 1
Lab I.D. Sample I.D. H23322 // 5-1/ 12 5-12 13 5-13 14 5-14 15 5-15 16 5-16	(□) (G)RAB OR (C)OMP	-#CONTAINERS	GROUNDWATER	WASTEWATER		SLUDGE	OTHER:	ACID/BASE:	XICE/COOL V	OTHER:	DATE 4/21/23	TIME 1050 1055 1100 1105 1110 1115	28 K-L XXXXX	XXXXX BYE	Charles Charles						
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July 17, 2023

CINDY CRAIN

CRAIN ENVIRONMENTAL

2925 E. 17TH STREET

ODESSA, TX 79761

RE: SOUTH VACUUM #274 FLOW LINE

Enclosed are the results of analyses for samples received by the laboratory on 07/12/23 12:37.

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 accreditated 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)

Celey D. Keene

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,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

CRAIN ENVIRONMENTAL CINDY CRAIN 2925 E. 17TH STREET ODESSA TX, 79761

Fax To: (432) 272-0304

Received: 07/12/2023 Sampling Date: 07/12/2023
Reported: 07/17/2023 Sampling Type: Soil

Project Name: SOUTH VACUUM #274 FLOW LINE Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: LEA CO., NM

Sample ID: S - 1 (H233556-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	07/13/2023	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	213	106	200	0.650	
DRO >C10-C28*	10.3	10.0	07/14/2023	ND	206	103	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					
Surrogate: 1-Chlorooctane	88.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.3	% 49.1-14	8						

Sample ID: S - 2 (H233556-02)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	07/13/2023	ND	416	104	400	3.77	

Sample ID: S - 3 (H233556-03)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	07/13/2023	ND	416	104	400	3.77	

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Analytical Results For:

CRAIN ENVIRONMENTAL CINDY CRAIN 2925 E. 17TH STREET ODESSA TX, 79761

Fax To: (432) 272-0304

Received: 07/12/2023 Sampling Date: 07/12/2023

Reported: 07/17/2023 Sampling Type: Soil

Project Name: SOUTH VACUUM #274 FLOW LINE Sampling Condition: ** (See Notes) Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: LEA CO., NM

Sample ID: S - 5 (H233556-04)

Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	07/13/2023	ND	416	104	400	3.77	
Sample ID: S - 7 (H233556	-05)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					

-	•	-	
Chloride, SM4	500CI-B		mg/kg

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	07/13/2023	ND	416	104	400	3.77	

Sample ID: S - 8 (H233556-06)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	07/13/2023	ND	416	104	400	3.77	

Sample ID: S - 10 (H233556-07)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	07/13/2023	ND	416	104	400	3.77	

Sample ID: S - 11 (H233556-08)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	07/13/2023	ND	416	104	400	3.77	

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Analytical Results For:

CRAIN ENVIRONMENTAL CINDY CRAIN 2925 E. 17TH STREET ODESSA TX, 79761

Fax To: (432) 272-0304

Received: 07/12/2023 Sampling Date: 07/12/2023

Reported: 07/17/2023 Sampling Type: Soil

Project Name: SOUTH VACUUM #274 FLOW LINE Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: LEA CO., NM

Sample ID: S - 12 (H233556-09)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	07/13/2023	ND	416	104	400	3.77	
Sample ID: S - 13 (H23355	56-10)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	07/13/2023	ND	416	104	400	3.77	
Sample ID: S - 14 (H23355	56-11)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	07/13/2023	ND	416	104	400	3.77	
Sample ID: S - 15 (H23355	56-12)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	07/13/2023	ND	416	104	400	3.77	
Sample ID: S - 16 (H23355	56-13)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	07/13/2023	ND	416	104	400	3.77	

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Analytical Results For:

CRAIN ENVIRONMENTAL CINDY CRAIN 2925 E. 17TH STREET ODESSA TX, 79761

Fax To: (432) 272-0304

Received: 07/12/2023 Sampling Date: 07/12/2023

Reported: 07/17/2023 Sampling Type: Soil

Project Name: SOUTH VACUUM #274 FLOW LINE Sampling Condition: ** (See Notes)

Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: LEA CO., NM

Sample ID: S - 17 (H233556-14)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	1.99	99.5	2.00	1.53	
Toluene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	1.32	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	1.99	99.4	2.00	1.23	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	5.87	97.8	6.00	1.40	
Total BTEX	<0.300	0.300	07/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22600	16.0	07/13/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	213	106	200	0.650	
DRO >C10-C28*	<10.0	10.0	07/14/2023	ND	206	103	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	07/14/2023	ND					
Surrogate: 1-Chlorooctane	98.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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Analytical Results For:

CRAIN ENVIRONMENTAL CINDY CRAIN 2925 E. 17TH STREET ODESSA TX, 79761

Fax To: (432) 272-0304

Received: 07/12/2023 Sampling Date: 07/12/2023

Reported: 07/17/2023 Sampling Type: Soil

Project Name: SOUTH VACUUM #274 FLOW LINE Sampling Condition: ** (See Notes) Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: LEA CO., NM

Sample ID: S - 18 (H233556-15)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2023	ND	1.99	99.5	2.00	1.53	
Toluene*	<0.050	0.050	07/13/2023	ND	1.99	99.3	2.00	1.32	
Ethylbenzene*	< 0.050	0.050	07/13/2023	ND	1.99	99.4	2.00	1.23	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	5.87	97.8	6.00	1.40	
Total BTEX	<0.300	0.300	07/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 %	6 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15600	16.0	07/13/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	213	106	200	0.650	
DRO >C10-C28*	174	10.0	07/14/2023	ND	206	103	200	2.60	
EXT DRO >C28-C36	123	10.0	07/14/2023	ND					
Surrogate: 1-Chlorooctane	94.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 9	6 49.1-14	8						

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Analytical Results For:

CRAIN ENVIRONMENTAL CINDY CRAIN 2925 E. 17TH STREET ODESSA TX, 79761 Fax To: (432) 272-0304

ma/ka

Received: 07/12/2023 Sampling Date: 07/12/2023 Reported: 07/17/2023 Sampling Type: Soil

Project Name: SOUTH VACUUM #274 FLOW LINE Sampling Condition: ** (See Notes) Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Applyzod By: MC

Project Location: LEA CO., NM

Sample ID: S - 19 (H233556-16)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2023	ND	1.99	99.5	2.00	1.53	
Toluene*	<0.050	0.050	07/14/2023	ND	1.99	99.3	2.00	1.32	
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	1.99	99.4	2.00	1.23	
Total Xylenes*	<0.150	0.150	07/14/2023	ND	5.87	97.8	6.00	1.40	
Total BTEX	<0.300	0.300	07/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5460	16.0	07/13/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	213	106	200	0.650	
DRO >C10-C28*	687	10.0	07/14/2023	ND	206	103	200	2.60	
EXT DRO >C28-C36	81.4	10.0	07/14/2023	ND					
Surrogate: 1-Chlorooctane	90.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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Analytical Results For:

CRAIN ENVIRONMENTAL
CINDY CRAIN
2925 E. 17TH STREET
ODESSA TX, 79761
Fax To: (432) 272-0304

ma/ka

Received: 07/12/2023 Sampling Date: 07/12/2023
Reported: 07/17/2023 Sampling Type: Soil

Project Name: SOUTH VACUUM #274 FLOW LINE Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: LEA CO., NM

Sample ID: S - 20 (H233556-17)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/14/2023	ND	1.99	99.5	2.00	1.53	
Toluene*	<0.050	0.050	07/14/2023	ND	1.99	99.3	2.00	1.32	
Ethylbenzene*	<0.050	0.050	07/14/2023	ND	1.99	99.4	2.00	1.23	
Total Xylenes*	<0.150	0.150	07/14/2023	ND	5.87	97.8	6.00	1.40	
Total BTEX	<0.300	0.300	07/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	07/13/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/14/2023	ND	213	106	200	0.650	
DRO >C10-C28*	133	10.0	07/14/2023	ND	206	103	200	2.60	
EXT DRO >C28-C36	91.5	10.0	07/14/2023	ND					
Surrogate: 1-Chlorooctane	91.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.3	% 49.1-14	8						

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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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Page 10 of 11



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Project Manag	ne: Crain Environmen	tal		B	ILL TO	2	ANAL VEIC	PEOUSO	
	LIMI (CAIN)			P.O. #:			ANALTSIS	REQUEST	-
city: On	725 E. 17th St.			Company:	Sandy Corp.	1			1
ity: Uo	lessa state	e: 沈 Zip: 7	9761	Attn: Larry	Goody.	1			
	5 441 - 7244 Fax #	_		Address: P	0. Box 1476	1			
roject #: -	Projec	t Owner: Clean	water	City: Lovic	V. Dex 1414	1			
roject Name:	-outh vocuum # 274	Flow Line		State: NM	Zip: 88266	1			1 1
roject Locatio	on: Lea Co., NM			Phone # /e	Zip: 002(00	1			1 1
ampler Name:	on: Lea Co., NM : Cirdy Crain			Fav #. (57	75)399-5721 5)396-0797				
FOR LAB USE ONLY			MATRIX	PRESERV.	SAMPLING	I	111		
		₩.	~		OAM LING	5			1 1
Lab I.D.		(C)OMP	ER ER			H 8015 Varides			- 1 - 1
Lab I.D.	Sample I.D.	AINE	MAT	SE:		100			
1722000		(G)RAB OR (C)C # CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE ICE / COOL OTHER:		天文			
233536	CI	(9) #	SOIL SOIL	OTHER ACID/BA ICE / CC OTHER	DATE TIME	F 39	1 1 1		
	S-1 S-2	CI	X	X	7/12/23 1100				
d	5.3	- 1111			1105				
9	5-5				1110				
7	5-7				1115				
7	5-8				1120				-
-	5-10				1125				-
	5-11	. 1111	11111		1130				+ +
9	5-12	- 11111			1135				++
in	5-13				1140				+ +
E NOTE: Liability and	Damages. Cardinal's liability and client's exclusive rer those for negligence and any other cause whatsoeve dinal be liable for incidental or	nedy for any claim arising w	hether based in contract or h	ort shall be limited to a	V 1145				1
						applicable			
nquished By:	related to the periormance of services herei	nder by Cardinal, recordless	s of whether such claim is be	ased upon any of the at	bove stated reasons or otherwise.				
under /	Date:7//2	23		MI	All Results a	ilt: ☐ Yes No re emailed. Please pr	The state of the s		
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		Received	Ву:		REMARKS:	5.01.0	Lagardi	10 opray corpora	dien.com
	Time:							3	
vered By: (Circ	- Tablita itali	p. °C 228	Sample Condition	CHECKED	BY: Turnaround	Flower Give			
pler - UPS - Bu	us - Other: Corrected Tem		Cool Intact	(Initials	()	Rush	Bacteria (o	nly) Sample Conditio	n
FORIVI-000 R	3.3 07/16/22		No No	A.O.	Thermometer II	tor -0.000 7/12	- Joor mitac	d Observed Temp	i. °C

Sampler - UPS - Bus - Other:

Released to Imaging: 9/19/2025 1:35:48 PM

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Project Manager:	n Environmenta	1							-	BI	LL TO						ΔΝ	ΙΔΙ Υ	SIS	REQU	ECT		
Address: 1915	Crain St.							P.O.	#:				T	1	T			T.	313 1	KEQU	ES1		
City: Odesso								Com	pany:	:6	way (050	7										
	State: 7X	Zi	p:	797	161			Attn	Lar	w	Gard	,									1		
Phone #: (575)441.	7244 Fax#: -							Add		7	- Company				1								
Project #:	Project Own	er: /	Cle	arn	ate	er		City:						1									
Project Name: South Vo	14 J74 A	Ton	11	ine				State	:		Zip:		1	1									
Project Location: Lea Casampler Name: Circly C	NM							Phor	e #:				1										- 1
FOR LAB USE ONLY	rain							Fax #					1										- 1
TON DAB USE ONLY			Г		MA	TRIX		PI	RESER	۲V.	SAM	PLING	0154						1				- 1
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Lab I.D. Sar	mple I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL			1.					00		1	20							
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ASE NOTE: Liability and Damages. Cardinal's lia rses. All claims: including those for negligence are ce. In no event shall Cardinal be liable for incident tes or successors arising out of or related to the con-	oliny and client's exclusive remedy for and d any other cause whatsoever shall be of	ny claim a deemed w	arising valved	whether unless n	based in	n contra	ct or to	rt, shall	e limited	to the	amount paid t	by the client for	the										
ce. In no event shall Cardinal be liable for incident tes or successors arising out of or related to the plinquished By:	tal or consequental damages, including erformance of services hereunder by C	without li	imitatio egardie	n, busine	ess inter	ruptions	, loss o	of use, or	loss of pr	within rofits i	30 days after of incurred by clie	completion of the nt, its subsidiar	e applicable les,										
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livered By: (Circle One)	Observed Temp. °C																						

☐ Yes ☐ Yes ☐ Nc ☐ No Correction Factor 0.5°C † Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

20

Cool Intact
Yes Yes
No No

Corrected Temp. °C

CHECKED BY:

(Initials)

Turnaround Time:

Thermometer ID #113

Standard

Bacteria (only) Sample Condition

Observed Temp. °C

Corrected Temp. °C

Cool Intact



August 17, 2023

CINDY CRAIN

CRAIN ENVIROMENTAL

2925 E. 17TH ST.

ODESSA, TX 79761

RE: SOUTH VACUUM #274 FLOW LINE

Enclosed are the results of analyses for samples received by the laboratory on 08/11/23 11:34.

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 accreditated 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)

Celey D. Keene

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,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Fax To:

Received: 08/11/2023 Reported: 08/17/2023

SOUTH VACUUM #274 FLOW LINE

Project Name: SOUTH VACU
Project Number: NONE GIVEN

Project Location: GANDY - LEA CO NM

Sampling Date: 08/11/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 1 (H234349-01)

	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	08/15/2023	ND	400	100	400	3.92	
Sample ID: S - 2 (H234349-02)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/15/2023	ND	400	100	400	3.92	
Sample ID: S - 3 (H234349-03)								
Sample ID: S - 3 (H234349-03 Chloride, SM4500Cl-B) mg	/kg	Analyze	d By: AC					
•	•	/kg Reporting Limit	Analyze Analyzed	d By: AC Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride, SM4500Cl-B	mg				BS 400	% Recovery	True Value QC 400	RPD 3.92	Qualifier
Chloride, SM4500CI-B Analyte	Result	Reporting Limit	Analyzed	Method Blank		•	•		Qualifier
Chloride, SM4500CI-B Analyte Chloride	Result	Reporting Limit	Analyzed 08/15/2023	Method Blank		•	•		Qualifier
Chloride, SM4500CI-B Analyte Chloride Sample ID: S - 5 (H234349-04	Result 224	Reporting Limit	Analyzed 08/15/2023	Method Blank ND		•	•		Qualifier

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 08/11/2023 Reported: 08/17/2023

Project Name: SOUTH VACUUM #274 FLOW LINE

Project Number: NONE GIVEN

Project Location: GANDY - LEA CO NM

Sampling Date: 08/11/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

rame

Sample ID: S - 7 (H234349-05)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	08/15/2023	ND	400	100	400	3.92	
Sample ID: S - 8 (H234349-06))								
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	08/15/2023	ND	400	100	400	3.92	

Sample ID: S - 10 (H234349-07)

Chloride, SM4500Cl-B	le, 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	08/15/2023	ND	400	100	400	3.92	

Sample ID: S - 11 (H234349-08)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	08/15/2023	ND	400	100	400	3.92	

Sample ID: S - 12 (H234349-09)

Chloride, SM4500Cl-B	mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/15/2023	ND	400	100	400	3.92	

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 08/11/2023 Reported: 08/17/2023

Project Name: SOUTH VACUUM #274 FLOW LINE

176

16.0

Project Number: NONE GIVEN

Project Location: GANDY - LEA CO NM Sampling Date: 08/11/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Tamara Oldaker

Sample ID: S - 13 (H234349-10)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/15/2023	ND	400	100	400	3.92	
Sample ID: S - 14 (H2343	349-11)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/15/2023	ND	400	100	400	3.92	
Sample ID: S - 15 (H2343	349-12)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/15/2023	ND	400	100	400	3.92	
Sample ID: S - 16 (H2343	349-13)								
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

08/15/2023

Cardinal Laboratories

Chloride

*=Accredited Analyte

3.92

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ND

400

100

400

Celeg D. Keine



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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

Received by OCD: 8/28/2025 10:40:47

101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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	(575) 393-2326 FAX (575) 393-2	2476												-1	WWW.	OT
Company Name:	mpany Name: Conin Environmental								BIL	LL TO	_			ANALYSIS REQUE	:51	
Project Manager	· Lindy Crain						-	_	. #:			~				
Address:	1925 E. 17th St.							Company: Gardy Corp.								
	Vessa State: TR	Zip	: ;	79761					Attn: Larry		Attn: Larry Crardy		1 1			
	(5)441-7244 Fax#: -							Address: P.		Address: P.O. Box 1476						
Project #: -		er: (Yes	vw	ate	25		City	1: 4	oving	gton			1		
	South Vacuum # 274 Flor	vino	0					Sta	te:/	VM	Zip: 8	82	260			
	n: Lea Co., NM												1-572	<i>l</i>		
Sampler Name:	// //												0797	4		
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Lab I.D.	Sample I.D.	(G)RAB OR (C)OM	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL OTHER:	DAT		TIME	Ch Jaride		
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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 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 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 analyses. All claims including those for negligence and any other cause whatsoever shall cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service.

affiliates or successors arising out of or related to the per Relinquished By:	Date: 8/11/23	Received By:	OAA I I a	Verbal Result: □ Yes Ø No Add'l Phone #: All Results are emailed. Please provide Email address:
(inderain	Time:/34	Muara de	dasse	cindy crain@gmail.com + Lgardy@gardycorporation.com
Relinquished By:	Date:	Received By:		REMARNS:
	Time:			
Delivered By: (Circle One)	Observed Temp. °C	COOI IIILACL	CHECKED BY: (Initials)	Turnaround Time: Standard Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Thermometer ID #442 #1/40
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Yes Yes	As.	Thermometer ID #443 #1440 S/11/23 Yes Yes Correction Factor -0.5°C YO. S/11/23 No No Corrected Temp. °C

Received by OCD: 8/28/2025 10:40:47 AM

Company Name:

Project Manager:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

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

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Page 2 of.	Je 7
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city: Ode	055a	State:	Zip	: 7	19%	161	*	A	ttn:	L	ari	y Gaz	14			
Phone #: (5)	15)441-724	4 Fax #: -						Α	Address:							
City: Ode550 State:77 Zip: 79761 Phone #: (575)441-7244 Fax #: — Project #: Project Owner: Clearwater					С	ity:										
Project Name:	South Vacuus	n#274 Flo	w	ine				s	tate			Zip:		1		
	: Lea Co.							Р	hon	e #:						11
Sampler Name:	/1- /							F	ax#	t:						
FOR LAB USE ONLY	,			П		MA	TRIX	-	PF	RESE	RV.	SAMP	LING	n		11
Lab I.D.	Sampl	le I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Charist		
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analyses. All claims includi	ing those for negligence and an ardinal be liable for incidental cing out of or related to the perfo	and client's exclusive remedy for a yother cause whatsoever shall be reconsequental damages, including transce of services hereunder by Date: 8/11/2 Time: / 34/ Date: Time:	deeming without Cardina	ed waive out limitat	d unless tion, bus dless of red B	made iness in whether	in writin terrupt	ions, los	s of us	e, or los	ss of pr	within 30 days after rofits incurred by c	fient, its subsidia asons or otherw Verbal Re All Result	esult:	PYes PNo Add'l Phone #: Tailed. Please provide Email address: Parail. Com + Lgardy @ gardycorpa	phion
Delivered By: (0		Observed Temp. °C		0.0	Sa	ample ool	Inta	nditio Yes No	n	CH		KED BY:	Turnarou	eter ID	Standard Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes Yes No No Corrected Temp. °C	

BILL TO

P.O. #:



August 30, 2023

CINDY CRAIN CRAIN ENVIROMENTAL 2925 E. 17TH ST.

ODESSA, TX 79761

RE: SOUTH VACUUM #274 FLOW LINE

Enclosed are the results of analyses for samples received by the laboratory on 08/25/23 12:02.

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 accreditated 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.

Celey D. Keene

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



Analytical Results For:

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

Received: 08/25/2023

08/30/2023 Sam

Project Name: SOUTH VACUUM #274 FLOW LINE

Project Number: NONE GIVEN

Project Location: GANDY - LEA CO NM

Sampling Date: 08/25/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 1 (H234636-01)

Reported:

Chloride, SM4500Cl-B mg/kg Analyzed By: AC Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Oualifier Analyte Result Chloride 416 16.0 08/29/2023 ND 432 108 400 0.00

Sample ID: S - 8 (H234636-02)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 496 16.0 08/29/2023 ND 432 108 400 0.00

Sample ID: S - 11 (H234636-03)

Chloride, SM4500Cl-B Analyzed By: AC mg/kg Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 224 16.0 08/29/2023 ND 400 0.00 432 108

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Received by OCD: 8/28/2025 10:40:4

Page 4 of

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Copin Engranmental		BILL TO	ANALYSIS REQUEST
Project Manager. Ciraly Cain		P.O. #: -	
Address: 2925 E. 17th 5t.		Company: Gardy Corp.	1
City: Odessa State: 及 Zip:	79761	Attn: Larry Gardy]
Phone #: (575) 441 - 7244 Fax #:		Address: P.O. Box 1476]
Project #: Project Owner: C/e		City: Lovington]
Project Name: South Vacuum # 274 Flowline		State: NM Zip: 88260]
Project Location: Lea Co. NH		Phone #: (575)399-5721	
Sampler Name: Circly Crain		Fax #: (575) 396-0797	1
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D. #CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL	ACID/BASE: ICE / COOL OTHER: BMIL BMIL	Christes
2 5-8 2 5-8 3 5-11 C1	X	X 8/25/23 0900 X 8/25/23 0910 X 8/25/23 0920	
PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising			

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 consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

Relinquished By:	9/25/23	Received By:	101111	Verbal Result: ☐ Yes ☒ No Add'l Phone #: All Results are emailed. Please provide Email address:
Relinquished By:		Received By:	useryk	Cindy. Crain @ gmail. com of Lgardy@ gardy corporation.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 5	Sample Condition Cool Intact Yes Yes No No	CHECKED BY:	Turnaround Time: Standard Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Thermometer ID #443 #1/40 Correction Factor 9.566 70 8/25/23 Nc No Corrected Temp. °C

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



APPENDIX E: PHOTOGRAPHIC DOCUMENTATION

South Vacuum #274 SWD Site Characterization Report and Remediation Workplan

Appendix E Clearwater SWD, LLC South Vacuum #274 SWD



View to N of excavation (6/21/23).



View to NE of excavation (6/21/23).



View to E of excavation (6/21/23).



View to NE of excavation and stockpile (6/21/23).



View to NW of excavation (7/12/23).



View to N of excavation (7/12/23).

Appendix E Clearwater SWD, LLC South Vacuum #274 SWD



View to W of excavation (7/12/23).



View to SW of excavation (7/12/23).



View to N of excavation (8/11/23).



View to S of excavation (8/11/23).



View to SW of excavation (8/11/23).



View to N of excavation (8/25/23).

Sante Fe Main Office Phone: (505) 476-3441 General Information

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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS

Action 500171

QUESTIONS

Operator:	OGRID:
CLEARWATER SWD, LLC	371101
P.O. Box 1476	Action Number:
Lovington, NM 88260	500171
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites							
Incident ID (n#)	nAPP2523985227						
Incident Name	NAPP2523985227 SOUTH VACUUM #274 SWD @ 30-025-37122						
Incident Type	Produced Water Release						
Incident Status	Remediation Plan Received						
Incident Well	[30-025-37122] SOUTH VACUUM #274						

Location of Release Source								
Please answer all the questions in this group.								
Site Name	South Vacuum #274 SWD							
Date Release Discovered	06/09/2023							
Surface Owner	State							

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

Nature and Volume of Release		
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Not answered.	
Produced Water Released (bbls) Details	Cause: Normal Operations Flow Line - Injection Produced Water Released: 357 BBL Recovered: 0 BBL Lost: 357 BBL.	
Is the concentration of chloride in the produced water >10,000 mg/l	Yes	
Condensate Released (bbls) Details	Not answered.	
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Not answered.	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.	

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QUESTIONS, Page 2

Action 500171

QUESTIONS (continued)

Operator: CLEARWATER SWD, LLC	OGRID: 371101
P.O. Box 1476	Action Number:
Lovington, NM 88260	500171
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
In Wal Danier	
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s The source of the release has been stopped	T ·
	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of the dor if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Cindy Crain Email: cindy.crain@gmail.com Date: 08/28/2025

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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 3

Action 500171

QUESTIONS (continued)

Operator:	OGRID:
CLEARWATER SWD, LLC	371101
P.O. Box 1476	Action Number:
Lovington, NM 88260	500171
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan		
Please answer all the questions the	at apply or are indicated. This information must be provided to t	the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation p	olan approval with this submission	Yes
Attach a comprehensive report den	nonstrating the lateral and vertical extents of soil contamination	associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical	extents of contamination been fully delineated	Yes
Was this release entirely co	ntained within a lined containment area	No
Soil Contamination Sampling:	(Provide the highest observable value for each, in mil	ligrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI B)	22800
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	768.4
GRO+DRO	(EPA SW-846 Method 8015M)	687
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
	MAC unless the site characterization report includes completed lines for beginning and completing the remediation.	efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will	the remediation commence	09/15/2025
On what date will (or did) th	e final sampling or liner inspection occur	10/10/2025
On what date will (or was) the	ne remediation complete(d)	10/31/2025
What is the estimated surface	ce area (in square feet) that will be reclaimed	7200
What is the estimated volum	ne (in cubic yards) that will be reclaimed	2000
What is the estimated surface	ce area (in square feet) that will be remediated	7200
What is the estimated volum	ne (in cubic yards) that will be remediated	2000
These estimated dates and measur	ements are recognized to be the best guess or calculation at the	time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 500171

QUESTIONS (continued)

Operator:	OGRID:
CLEARWATER SWD, LLC	371101
P.O. Box 1476	Action Number:
Lovington, NM 88260	500171
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
Yes		
fAB0000000061 TNM-55-95		
Not answered.		

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

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

Name: Cindy Crain
Email: cindy.crain@gmail.com
Date: 08/28/2025

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 500171

QUESTIONS (continued)

Operator:	OGRID:
CLEARWATER SWD, LLC	371101
P.O. Box 1476	Action Number:
Lovington, NM 88260	500171
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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QUESTIONS, Page 6

Action 500171

QUESTIONS (continued)

QUES I	ions (continued)
Operator: CLEARWATER SWD, LLC	OGRID: 371101
P.O. Box 1476	Action Number:
Lovington, NM 88260	500171 Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)
QUESTIONS	
Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}
Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all	remediation steps have been completed.
Requesting a remediation closure approval with this submission	No
	•

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CONDITIONS

Action 500171

CONDITIONS

Operator:	OGRID:
CLEARWATER SWD, LLC	371101
P.O. Box 1476	Action Number:
Lovington, NM 88260	500171
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation plan is approved as written except with the following conditions; 1. Clearwater SWD, LLC (Clearwater) request to forgo BTEX analysis from any future final sampling is approved. 2. Alternative sampling plan request not to exceed 400 square feet (ft.2) for each five (5) point composite (5pc) from the excavation floor per 19.15.29.12D (1b) NMAC is approved. Sidewall confirmation sample(s) will abide at 200 ft.2 for each 5pc per 19.15.29.12D (1c) NMAC. All other provisions addressed in 19.15.29.12D NMAC remain in effect. 3. Prior to backfilling the open excavation per 19.15.29.12D (2) NMAC, Clearwater must collect a minimum of one (1) 5pcs from the media being used as backfill to verify that it meets non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division.	9/19/2025
nvelez	This is especially important for the material being used within the top four (4) feet from the ground surface. 4. Please submit as a reclamation report if reseeding is completed prior to its submittal. 5. Clearwater has 90-days (December 18, 2025) to submit to OCD its appropriate or final remediation closure report.	9/19/2025