Incident Number: nAPP2204056995



Release Assessment and Closure

Pecos Irrigation 1-10 Tank Battery

Unit G, Section 10, Township 23 South, Range 28 East

Facility ID: fAPP2201743006

County: Eddy

Vertex File Number: 22E-00933

Prepared for:

BTA Oil Producers LLC

Prepared by:

Vertex Resource Services Inc.

Date:

July 2023

Release Assessment and Closure July 2023

Release Assessment and Closure
Pecos Irrigation 1-10 Tank Battery
Unit G, Section 10, Township 23 South, Range 28 East
Facility ID: fAPP2201743006

County: Eddy

Prepared for:

BTA Oil Producers LLC 104 S. Pecos Street Midland, Texas 79701

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Artesia, New Mexico 88210

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Fernando Rodriguez, B.Sc.	Date					
INTERMEDIATE BIOLOGIST, REPORTING						
Chance Dixon. B.Sc.	Date					

ii VERSATILITY. EXPERTISE.

PROJECT MANAGER, REPORT REVIEW

Release Assessment and Closure July 2023

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Release Assessment and Closure July 2023

1.0 Introduction

BTA Oil Producers LLC (BTA) retained Vertex Resource Services Inc. (Vertex) to conduct a Release Assessment and Closure for a crude oil release that occurred on February 8, 2022, at Pecos Irrigation 1-10 Tank Battery, Facility ID: fAPP2201743006 (hereafter referred to as the "site"). BTA submitted an initial C-141 Release Notification (Appendix A) to New Mexico Oil Conservation Division (NMOCD) District 2 on February 9, 2022. Incident ID number nAPP2204056995 was assigned to this incident.

This report provides a description of the release assessment and remediation activities associated with the site. The information presented demonstrates that closure criteria established in Table I of 19.15.29.12 of the *New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, 2018) related to NMOCD has been met and all applicable regulations are being followed. This document is intended to serve as a final report to obtain approval from NMOCD for the closure of this release, with the understanding that restoration of the release site will be deferred until such time as all oil and gas activities are terminated and the site is reclaimed as per NMAC 19.15.29.13.

2.0 Incident Description

The release occurred on February 8, 2022, due to a load line that detached at the coupling of the oil tank allowing the tank to release fluids onto the pad. The incident was reported on February 9, 2022, and involved the release of approximately 26 barrels (bbl.) of produced oil on the pad site. Approximately 0 bbl. of free fluid was removed during the initial clean-up. Additional details relevant to the release are presented in the C-141 Report.

3.0 Site Characteristics

The site is located approximately 11 miles southeast of Carlsbad, New Mexico (Google Inc., 2023). The legal location for the site is Unit G, Section 10, Township 23 South and Range 28 East in Eddy County, New Mexico. The release area is located on private property (Rustler Hills II). An aerial photograph and site schematic are presented on Figure 1.

The location is typical of oil and gas exploration and production sites in the Permian Basin and is currently used for oil and gas production and storage. The following sections specifically describe the release area on the constructed pad, outside of the earthen berm containment (Figure 1).

The surface geology at the site primarily comprises Qa – Alluvium from the Holocene to upper Pleistocene ages (New Mexico Bureau of Geology and Mineral Resources, 2023), and the soil at the site is characterized as cobbly and gravelly loam (United States Department of Agriculture, Natural Resources Conservation Service, 2023). Additional soil characteristics include a well-drained drainage class with a high runoff class. The karst geology potential for the site is medium (United States Department of the Interior, Bureau of Land Management, 2018).

The surrounding landscape is associated with ridges and fans with elevations ranging between 1,100 and 4,400 feet. The climate is semiarid with average annual precipitation ranging between 8 and 13 inches. Using information from the United States Department of Agriculture, the dominant vegetation was determined to be a grassland/shrub mix, dominated by grasses, but with shrubs common throughout the site. Black Grama with Mesquite and Creosotebush dominate the historic plant community (United States Department of Agriculture, Natural Resources Conservation

Release Assessment and Closure July 2023

Service, 2023). Limited to no vegetation is allowed to grow on the compacted production pad, right-of-way, and access road.

4.0 Closure Criteria Determination

The nearest active well to the site is a United States Geological Survey (USGS) monitoring well located approximately 0.66 miles southwest of the site (United States Geological Survey, 2023). Data from 2023 shows the USGS borehole recorded a depth to groundwater of 23 feet below ground surface (bgs). Information pertaining to the depth to groundwater determination is included in Appendix B.

There is no surface water present at the site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is the Pecos River located approximately 0.69 miles north of the site (United States Fish and Wildlife Service, 2023).

At the site, there are no continuously flowing watercourses or significant watercourses, lakebeds, sinkholes, playa lakes or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

Release Assessment and Closure July 2023

ite Spec	ific Conditions	Value	Unit	
		74.40		
1	Depth to Groundwater	23	feet	
2	Within 300 feet of any continuously flowing	3,650	feet	
	watercourse or any other significant watercourse	3,030		
	Within 200 feet of any lakebed, sinkhole or playa lake		_	
3	(measured from the ordinary high-water mark)	13,360	feet	
	Within 200 feet from an accoming maideness asked			
4	Within 300 feet from an occupied residence, school,	2,222	feet	
	hospital, institution or church			
	i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for	2 605	foot	
5	domestic or stock watering purposes, or	2,605	feet	
3	domestic of stock watering purposes, o r			
	ii) Within 1000 feet of any fresh water well or spring		feet	
	Within incorporated municipal boundaries or within a			
	defined municipal fresh water field covered under a			
6	municipal ordinance adopted pursuant to Section 3-27-	No	(Y/N)	
Ü	3 NMSA 1978 as amended, unless the municipality		(
	specifically approves			
7	Within 300 feet of a wetland	3,568	feet	
8	Within the area overlying a subsurface mine	No	(Y/N)	
	, and the state of		Critical	
			High	
9	Within an unstable area (Karst Map)	Medium	Medium	
			Low	
10	Within a 100-year Floodplain	500	year	
		Gravelly loam,		
11	Soil Type	cemented, very		
		gravelly loam		
12	Ecological Classification	Shallow		
14	Leorogical classification	Silaliow		
13	Geology	Alluvium		
			<50'	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	<50'	51-100'	
			>100'	

The closure criteria determined for the site are associated with the following constituent concentration limits as presented in Table 2.

Table 2. Closure Criteria for Soils Impacted by a Release							
Minimum depth below any point within the horizontal boundary of the release to groundwater less than	Constituent	Limit					
10,000 mg/l TDS	Constituent	Limit					
	Chloride	600 mg/kg					
< 50 feet	TPH (GRO+DRO+MRO)	100 mg/kg					
	BTEX	50 mg/kg					
	Benzene	10 mg/kg					

TDS - total dissolved solids

TPH - total petroleum hydrocarbons, GRO - gas range organics, DRO - diesel range organics, MRO - motor oil range organics

BTEX - benzene, toluene, ethylbenzene and xylenes

5.0 Remedial Actions Taken

An initial site inspection of the release area was completed on March 24, 2022, which identified the area of the release specified in the initial C-141 Report. The impacted area was determined to be approximately 68 feet long and 68 feet wide; the total affected area was 7,308 square feet. Site characterization activities at the site were conducted by Vertex between March 24 and April 19, 2022. Initial characterization sample locations are presented on Figure 1 and laboratory results are presented in Table 3.

Remediation efforts began on July 17, 2023, and were finalized on July 21, 2023. Vertex personnel supervised the excavation of impacted soils. Field screening was completed during excavation and consisted of analysis using a Photo Ionization Detector (volatile hydrocarbons), Dexsil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons) and Silver Nitrate titrations (chlorides). Field screening results were used to identify areas requiring further remediation. Soils were removed to a depth of 4 feet bgs. Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility. On July 21, 2023, excavation was completed with approximately 880 total yards excavated. The final Daily Field Report, completed on the last day of remedial activities and depicting the final excavation before backfill, is included in Appendix C.

On July 29, 2023, backfill was completed for the excavation. Approximately 880 yards of clean, uncontaminated soil were obtained from R360 disposal in Orla, Texas for this purpose.

Notification that confirmatory samples were being collected was provided to the NMOCD on July 11, 2023, and is included in Appendix D. Confirmatory composite samples were collected from the base and walls of the excavation in 200 square foot increments. A total of 36 samples were collected for laboratory analysis following NMOCD soil sampling procedures (Figure 2). Samples were submitted to Cardinal Laboratories under chain-of-custody protocols and analyzed for BTEX (EPA Method 8021B), total petroleum hydrocarbons (GRO, DRO, MRO – EPA Method 8015D), and total chlorides (EPA Method 300.0). Laboratory results are presented in Table 4, and the laboratory data reports are included in Appendix E. All confirmatory samples collected and analyzed were below the closure criteria for the site.

Release Assessment and Closure July 2023

6.0 Closure Request

Vertex recommends no additional remedial action at the site. Laboratory analyses of confirmation samples collected at the site show final confirmatory values below NMOCD closure criteria for areas where depth to groundwater is less than 50 feet bgs as presented in Table 2. There are no anticipated risks to human, ecological, or hydrological receptors at this site.

The excavation was backfilled with non-waste-containing, uncontaminated, earthen material, sourced locally, and placed to meet the site's existing grade to prevent water ponding and erosion.

Vertex requests that this incident (nAPP2204056995) be closed as all closure requirements set forth in Subsection E of 19.15.29.12 NMAC have been met. BTA certifies that all information in this report and the appendices are correct and that they have complied with all applicable closure requirements and conditions specified in Division rules and directives to meet NMOCD requirements to obtain closure on the site.

Should you have any questions or concerns, please do not hesitate to contact Chance Dixon at 575.988.1472 or cdixon@vertex.ca.

7.0 References

- Google Inc. (2023). Google Earth Pro (Version 7.3.3) [Software]. Retrieved from https://earth.google.com
- New Mexico Bureau of Geology and Mineral Resources. (2023). *Interactive Geologic Map*. Retrieved from https://maps.nmt.edu/
- New Mexico Department of Surface Water Quality Bureau. (2023). *Assessed and Impaired Waters of New Mexico*. Retrieved from https://gis.web.env.nm.gov/oem/?map=swqb
- New Mexico Energy, Minerals and Natural Resources Department. (2023). *OCD Permitting Spill Search*. Retrieved from https://wwwapps.emnrd.nm.gov/ocd/ocdpermitting/Data/Spills/Spills.aspx
- New Mexico Mining and Minerals Division. (2023). *Coal Mine Resources in New Mexico*. Retrieved from https://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=5f80f3b0faa545e58fe747cc7b037a93
- New Mexico Office of the State Engineer. (2023a). *Point of Diversion Location Report New Mexico Water Rights Reporting System*. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/wellSurfaceDiversion.html
- New Mexico Office of the State Engineer. (2023b). Water Column/Average Depth to Water Report New Mexico Water Rights Reporting System. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/waterColumn.html
- New Mexico Office of the State Engineer. (2023c). Well Log/Meter Information Report New Mexico Water Rights Reporting System. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/meterReport.html
- New Mexico Oil Conservation Division. (2018). *New Mexico Administrative Code Natural Resources and Wildlife Oil and Gas Releases*. Santa Fe, New Mexico.
- United States Department of Agriculture, Natural Resources Conservation Service. (2023). Web Soil Survey. Retrieved from https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx
- United States Department of Homeland Security, Federal Emergency Management Agency. (2023). *FEMA Flood Map Service: Search by Address*. Retrieved from https://msc.fema.gov/portal/search?AddressQuery=malaga% 20new%20mexico#searchresultsanchor
- United States Department of the Interior, Bureau of Land Management. (2018). New Mexico Cave/Karst. Retrieved from https://www.nm.blm.gov/shapeFiles/cfo/carlsbad_spatial_data.html
- United States Fish and Wildlife Service. (2023). *National Wetland Inventory Surface Waters and Wetlands*. Retrieved from https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/
- United States Geological Survey. (2023). *National Water Information System: Web Interface*. Retrieved from https://waterdata.usgs.gov/nwis

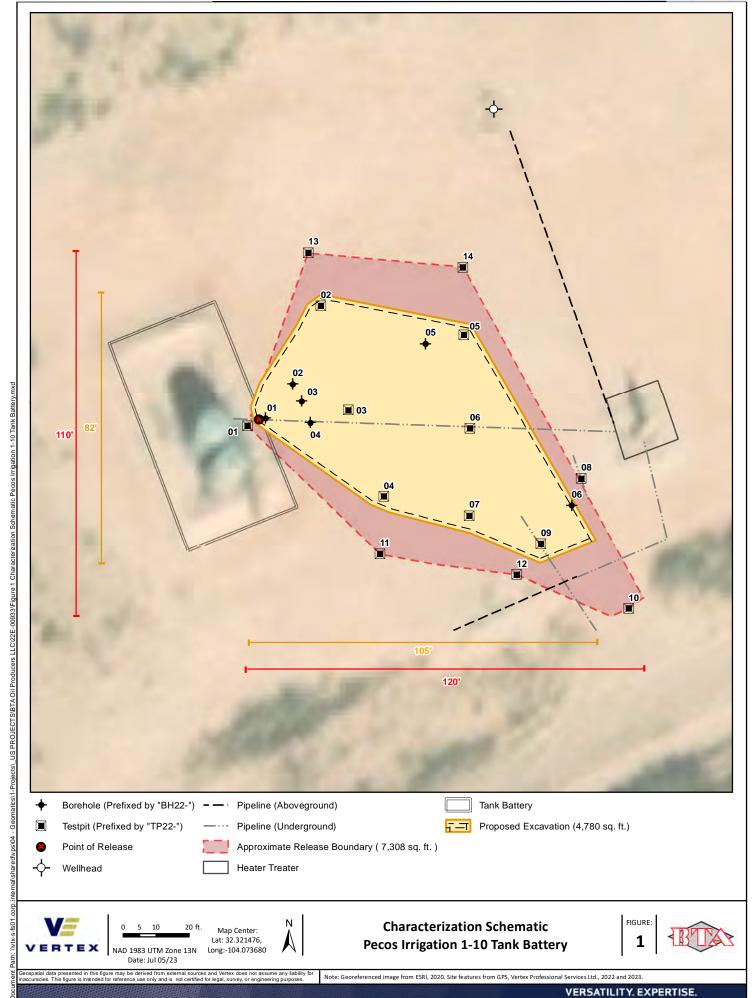
Release Assessment and Closure July 2023

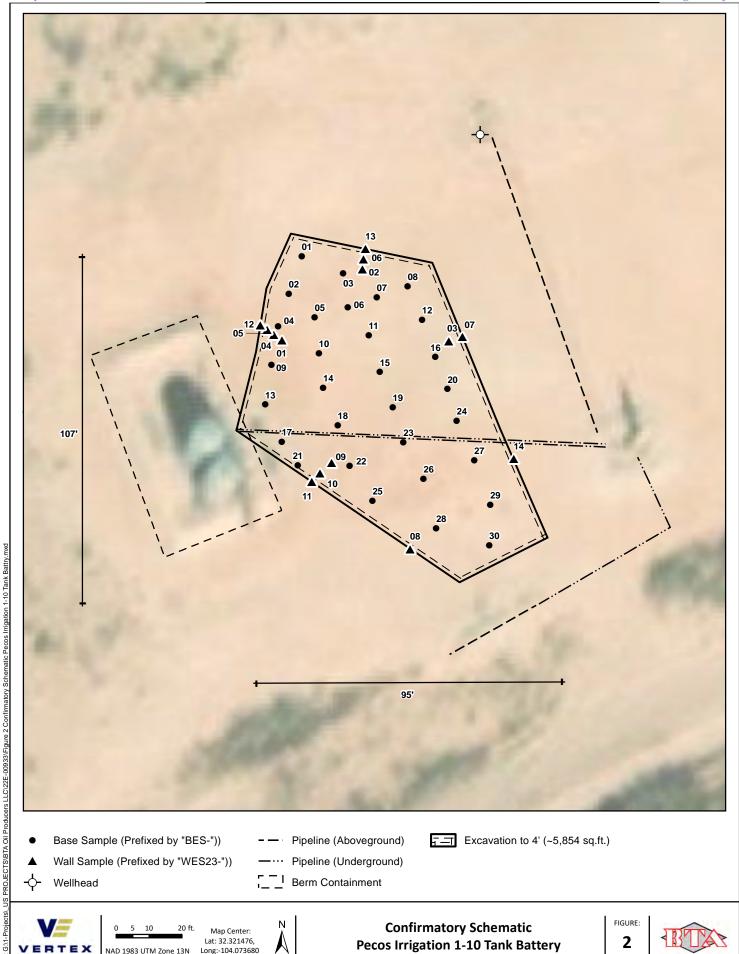
8.0 Limitations

This report has been prepared for the sole benefit of BTA Oil Producers LLC. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division, without the express written consent of Vertex Resource Services Inc. (Vertex) and BTA Oil Producers LLC. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

FIGURES





Date: Jul 25/23

Map Center:

Confirmatory Schematic

Pecos Irrigation 1-10 Tank Battery

FIGURE:

2

TABLES

Client Name: BTA Oil Producers, LLC Site Name: Pecos Irrigation 1-10 Tank Battery NM OCD Tracking #: nAPP2204056995

Project #: 22E-00933

Lab Reports: 2203E18, 2204560, 2204627

Sample ID		Table 3	. Initial Character	ization Sa	mple Field	d Screen a	nd Labora	tory Resu	lts - Depth	to Groun	dwater <5	0 feet bgs	5	
Sample ID	S	Sample Descrip	otion	Fic	eld Screeni	ng			Petrole	um Hydro	carbons			
				ds			Vol	atile			Extractable	•		Inorganic
	Sample ID	Depth (ft)	Sample Date	Volatile Organic Compoun (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Benzene	BTEX (Total)	Range	Diesel Range Organics (DRO)	Range	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
B022-01					(ppm)	(ppm)	(mg/kg)	(mg/kg)				(mg/kg)	(mg/kg)	(mg/kg)
BH22-01	BG22-01	0	3/24/2022	-	-			ND	ND			ND	ND	ND
BH22-01	BG22-01	0.5	3/24/2022	-	-	380	ND	ND	ND	ND	ND	ND	ND	ND
BH22-02										80				850
BH22-02										-				-
BH22-03														2400
BH22-03														7000
BH22-04								ND	28	2300		2328	2328	7800
BH22-05								ND -	ND -			20	104	5200
BH22-05 O 3/24/2022 O 520 4,195 ND ND ND ND ND ND ND N														3200
BH22-06														8600
BH22-06														-
BH22-06 0.5 3/24/2022 0 893 2.641						-	0.38	51.88	890	36000	ND	36890	36890	3700
TP22-01						,								
TP22-01				0	48	257	ND	ND	ND	ND	ND	ND	ND	ND
TP22-02				0	88	320	ND	ND	ND	ND	ND	ND	ND	ND
TP22-02	TP22-02	0	4/11/2022	0	1,046	2,860	-	-	-	-	-	-	-	-
TP22-02 6	TP22-02	2	4/11/2022	0	296	2,641	-	-	-	-	-	-	-	-
TP22-03	TP22-02	4	4/11/2022			,	-	-				-	-	
TP22-03 2 4/11/2022 0 36 2,848 -	TP22-02	6	4/12/2022	0	23	225	ND	ND	ND	ND	ND	ND	ND	ND
TP22-03							-	-	-	-	-	-	-	-
TP22-03 6														
TP22-03 8						_								-
TP22-04														- ND
TP22-04														
TP22-04														
TP22-04 6 4/12/2022 0 25 197 ND ND ND 14 ND 14 14 150 TP22-05 0 4/11/2022 0 1,060 375 -														
TP22-05														150
TP22-05 2 A/11/2022 0 1,149 440 -														
TP22-05 6 4/12/2022 0 53 1,022 -							-	-	-	-	-	-	-	-
TP22-05 8 4/12/2022 0 77 867 ND					-	-	-	-	-	-	-	-	-	-
TP22-05 10 4/18/2022 0 64 300 ND	TP22-05	8		0	77		ND	ND	ND	ND	ND	ND	ND	410
TP22-06 2 4/11/2022 0 626 2,902 -		10		0	64		ND	ND	ND	ND	ND	ND	ND	160
TP22-06 4 4/11/2022 0 281 2,675 -	TP22-06	0	4/11/2022	0	749	2,965	-	-	-	-	-	-	-	-
TP22-06 8 4/12/2022 0 129 1,022 -				0	626	2,902	-	-	-	-	-	-	-	-
TP22-06 10 4/12/2022 0 29 372 ND							-	-	-	-	-	-	-	-
TP22-07 0 4/11/2022 0 640 2,297 ND														
TP22-07 2 4/11/2022 0 529 1,162 -														
TP22-07 6 4/12/2022 0 40 722 -														
TP22-07 8 4/12/2022 0 55 562 ND								-	-			-		<u> </u>
TP22-08 0 4/18/2022 0 96 492 ND								ND -	ND -					200
TP22-08 3 4/18/2022 0 95 388 ND														
TP22-08 6 4/18/2022 0 34 372 -														
TP22-09 0 4/18/2022 0 324 1,040 ND 3.9 440 21000 ND 21440 21440 900 TP22-09 6 4/19/2022 0 840 1,139 ND ND </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>- 14D</td> <td></td> <td>-</td>									-			- 14D		-
TP22-09 6 4/19/2022 0 840 1,139 ND									440			21440		900
TP22-09 9 4/19/2022 0 96 600 ND														
			4/19/2022				-	-	-	-	-	-		-



	Table 3. Initial Characterization Sample Field Screen and Laboratory Results - Depth to Groundwater <50 feet bgs												
Sample Description Field Screening			Petroleum Hydrocarbons										
			g			Volatile Extractable							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
TP22-10	0	4/18/2022	0	5	360	ND	ND	ND	ND	ND	ND	ND	150
TP22-10	2	4/18/2022	0	9	374	ND	ND	ND	ND	ND	ND	ND	150
TP22-11	0	4/19/2022	0	68	428	ND	ND	ND	ND	ND	ND	ND	ND
TP22-11	3	4/19/2022	0	88	567	ND	ND	ND	ND	ND	ND	ND	ND
TP22-11	6	4/19/2022	0	92	507	-	-	-	-	1	-	1	-
TP22-12	0	4/19/2022	0	94	477	ND	ND	ND	ND	ND	ND	ND	ND
TP22-12	3	4/19/2022	0	67	167	ND	ND	ND	ND	ND	ND	ND	ND
TP22-12	6	4/19/2022	0	42	600	-	-	-	-	-	-	-	-
TP22-13	0	4/19/2022	0	47	552	ND	ND	ND	ND	ND	ND	ND	ND
TP22-13	3	4/19/2022	0	18	532	ND	ND	ND	ND	ND	ND	ND	ND
TP22-13	6	4/19/2022	0	22	580	-	-	-	-	-	-		-
TP22-14	0	4/19/2022	0	21	535	ND	ND	ND	ND	ND	ND	ND	ND
TP22-14	3	4/19/2022	0	34	570	ND	ND	ND	ND	ND	ND	ND	ND
TP22-14	6	4/19/2022	0	71	585	-	-	-	-	-	-	-	-

[&]quot;ND" Not Detected at the Reporting Limit

Bold and grey shaded indicates exceedance outside of NM OCD Closure Criteria (on-pad)



[&]quot;-" indicates not analyzed/assessed

 $Table\ 4.\ Initial\ Characterization/Confirmatory\ Laboratory\ Results\ -\ Depth\ to\ Groundwater\ < 50\ feet\ bgs$

BTA Oil Producers LLC

Pecos Irrigation 1-10 Tank Battery
NMOCD Tracking #: nAPP2204056995

Project #: 22E-00933

Lab Report: H233754, H233800 and H233799

	Sample Description					Pe	etroleum H	lydrocarbo	ns				Inorganic
Sample ID	Depth (ft)	Date	euszene (mg/kg)	a e loine ne market ne mar	Ethylbenzene	(Bay Total Xylenes	(Sex (Total)	Gasoline Range Organics (GRO)	Bigging Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	ह हैं हिंदू Total Petroleum Hydrocarbons (TPH)	(a) (chloride Concentration
Criteria	NMOCD - NMAC <5 NMOCD - NMAC 51-1	. ,	10	-	-	-	50 50	-	-	-	1000	100 2500	600 10000
	NMOCD - NMAC >10	00 ft 19.15.29 (2018)	10	-	-	-	50	-	-	-	1000	2500	20000
2023 Base Samples													
BS23-01	4	July 18, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	208
BS23-02	4	July 18, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	496
BS23-03	4	July 19, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	240
BS23-04	4	July 19, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	96
BS23-05	4	July 18, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	80
BS23-06	4	July 18, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	448
BS23-07	4	July 18, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	432
BS23-08	4	July 18, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	448
BS23-09	4	July 18, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	448
BS23-10	4	July 18, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	512
BS23-11	4	July 18, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	480
BS23-12	4	July 18, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	496
BS23-13	4	July 18, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	464
BS23-14	4	July 18, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	464
BS23-15	4	July 20, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	160
BS23-16	4	July 20, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	144
BS23-17	4	July 20, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	80
BS23-18	4	July 20, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	144
BS23-19	4	July 20, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	80
BS23-20	4	July 20, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	96
BS23-21	4	July 20, 2023	ND	ND	ND	ND	ND	ND	71	ND	ND	ND	112
BS23-22	4	July 20, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	144
BS23-23	4	July 20, 2023	ND	ND	ND	ND	ND	ND	11.8	ND	ND	ND	192
BS23-24	4	July 20, 2023	ND	ND	ND	ND	ND	ND	23.8	ND	ND	ND	128
BS23-25	4	July 20, 2023	ND	ND	ND	ND	ND	ND	28.3	ND	ND	ND	144
BS23-26	4	July 20, 2023	ND	ND	ND	ND	ND	ND	41.8	ND	ND	ND	128
BS23-27	4	July 20, 2023	ND	ND	ND	ND	ND	ND	40.4	ND	ND	ND	64
BS23-28	4	July 20, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	80
BS23-29	4	July 20, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	96
BS23-30	4	July 20, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	224
2023 Wall Samples													
WS23-07	4	July 19, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	352
WS23-08	4	July 19, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	128
WS23-11	4	July 19, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	240
WS23-12	4	July 19, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.3
WS23-13	4	July 19, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	320
WS23-14	4	July 19, 2023	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	160

NMAC - New Mexico Administrative Code (Title 19, Chapter 15, Part 29; 2022)

ND - Not Detected at the Reporting Limit

- Denotes no standard/not analyzed



APPENDIX A - NMOCD C-141 Report

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

State of New Mexico Energy Minerals and Natural Resources Department

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

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

Incident ID	nAPP2204056995
District RP	
Facility ID	fAPP2201743006
Application ID	

Release Notification

Responsible Party

Responsible Party: BTA Oil Producers, LLC	OGRID: 260297
Contact Name: Bob Hall	Contact Telephone: 432-682-3753
Contact email: bhall@btaoil.com	Incident # (assigned by OCD) nAPP2204056995
Contact mailing address: 104 S. Pecos St., Midland, TX 79701	

Location of Release Source

Latitude: 32.32146 Longitude: -104.07383

(NAD 83 in decimal degrees to 5 decimal places)								
Site Name: Pecos Irrigation #1-10 Tank Battery					Site Type: Tank Battery			
Date Release	Discovered:	2/8/2022			API# (if appl	licable) Nearest well:		
	T .		Γ					
Unit Letter	Section	Township	Range		Count	ty		
G	10	23S	28E	Edd	У			
Surface Owner: State Federal Private (Name: Rustler Hills II, PO Box 72, Orla, TX 79770)								
Nature and Volume of Release								
Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)								
Crude Oil	Crude Oil Volume Released (bbls) 26 BBL					Volume Recovered (bbls) 0 BBL		

Crude Oil	Volume Released (bbls) 26 BBL	Volume Recovered (bbls) 0 BBL					
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)					
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No					
Condensate	Volume Released (bbls)	Volume Recovered (bbls)					
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)					
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)					
Cause of Release							
Piping Failure.							
Load Line detached a	it coupling for oil tank allowing the tank to em	npty onto the tank battery					
pad. Volume was determined from tank gauge prior to the load line detachment.							
(Spill calculation spreadsheet attached.)							

Page 2

Oil Conservation Division

	Tuge 21 of 2
Incident ID	nAPP2204056995
District RP	
Facility ID	fAPP2201743006
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	The release was larger than 25 BBL fluid.
⊠ Yes □ No	
Z ies L No	
	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
_	nent on NMOCD Permitting Portal that was assigned Incident ID # nAPP2204056995 on
2/9/2022.	
	Initial Response
The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.
	as been secured to protect human health and the environment.
Released materials ha	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and r	ecoverable materials have been removed and managed appropriately.
If all the actions describe	d above have not been undertaken, explain why:
D 10 15 20 0 D (1) ND	
has begun, please attach	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
	ormation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and
public health or the environ	required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have
	gate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
and/or regulations.	
Printed Name: Bob Hal	Title: Environmental Manager
Signature: 3	Date: 2/21/2022
Signature.	Duto. 2, 21, 2022
email: bhall@btaoil.c	om Telephone: 432-682-3753
OCD Only	
_	
Received by:	Date:

Location Pecos Irrigation Load Line API# **Spill Date** 2/8/2022 **Spill Dimensions ENTER** - Length of Spill 68 feet **ENTER** - Width of Spill 68 feet **ENTER** - Saturation Depth of Spill 2.5 inches **ENTER** - Porosity Factor 0.15 decimal Oil Cut - Well Test / Vessel Throughput or Contents Oil 99.999 Water 0.001 Calculated Oil Cut 0.99999 **Volume Recovered in Truck / Containment ENTER** - Recovered Oil **BBL ENTER** - Recovered Water **Calculated Values** calculated Release of Oil in Soil - Unrecovered 26 **BBL** 0 **BBL** Release of Water in Soil - Unrecovered 26 *BBL* **Unrecovered Total Release Calculated Values** calculated 26 *BBL* Total Release of Oil 0 **BBL** Total Release of Water

Types of Soil	Porosity Factor
Gravel	0.25
Sand	0.20
Clay/silt/sand Mix	0.15
Clay	0.05
Caliche	0.03
Unknown	0.25

(Length X Width X Depth X 1 ft/12 in) X Porosity 5.615 ft³ / BBL X Oil Cut
(or Water Cut)

26 *BBL*

Total Release

Page 23 of 211

	1 1180 20 0 1 2
Incident ID	nAPP2204056995
District RP	
Facility ID	fAPP2201743006
Application ID	

Closure

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

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

✓ A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODG	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rendered human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification with 19.15.29.13 NMAC i	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.
Printed Name: Kelton Beaird	
Signature:	Date: 8-1-2023
email: KBeaird@btaoil.com	Telephone: (432) 312-2203
OCD Only	
	D .
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

APPENDIX B – Closure Criteria Research Documentation

Page 25 of 211 **USGS Home Contact USGS** Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:	
Groundwater ~	United States	∨ GO

Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

■ Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site_no list =

321847104044501

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321847104044501 23S.28E.10.333423

Eddy County, New Mexico

Latitude 32°18'47", Longitude 104°04'45" NAD27

Land-surface elevation 2,999 feet above NAVD88

The depth of the well is 196 feet below land surface.

This well is completed in the Other aguifers (N9999OTHER) national aguifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats					
Table of data					
<u>Tab-separated data</u>					
Graph of data					
Reselect period					

Released to Imaging: 1/11/2024 11:08:19 AM

		AM	II I						11	Page 26 of 211
Time	Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
	С	62610		2974.54	NGVD29	1	Z			А
	Г	62611		2976.11	NAVD88	1	Z			А
	Г	72019	22.89			1	Z			Α
	[62610		2977.93	NGVD29	1	Z			А
	Г	62611		2979.50	NAVD88	1	Z			Α
	Г	72019	19.50			1	Z			Α
				2978.11	NGVD29	1	S			Α
				2979.68	NAVD88	1	S			Α
			19.32			1	S			Α
						1	S			Α
				2979.36	NAVD88	1	S			А
						1				Α
						1				Α
				2979.14	NAVD88	1				Α
			19.86			1	S			Α
						1	S			
	С	62611		2975.85	NAVD88	1	S	USGS	S	S A
	Time	Time level date-time accuracy	Time level date-time accuracy Parameter code D 62610 D 62611 D 72019 D 62610 D 62611 D 72019 D 62610 D 62610 D 72019 D 62610 D 72019 D 72019 D 62610 D 72019 D 62610 D 72019 D 62610 D 62611	Time	Time Water-level date-time accuracy	Time	Time Water-level date-time accuracy Parameter code Parameter code	Time Water-level date-level date-level date-level date-level date-level date-level date-level date date datum Parameter code Parameter	Name	Water-level date-time accuracy

Explanation

1

S

USGS

S

Α

2003-01-27

D

72019

23.15

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code 72019		Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement Released to Imaging: 1/11/2024 11:08:19 AM	S	Steel-tape measurement.

Received by OCD: 8/1/2023 6:41:17 AM			Page 27 of 211
Section	Code	Description	1 uge 27 0/ 211
Method of measurement	Z	Other.	
Measuring agency		Not determined	
Measuring agency	USGS	U.S. Geological Survey	
Source of measurement		Not determined	
Source of measurement	S	Measured by personnel of reporting agency.	
Water-level approval status	Α	Approved for publication Processing and review completed.	

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility FOIA Privacy Policies and Notices

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

Title: Groundwater for USA: Water Levels

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

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2022-03-17 09:30:29 EDT

0.28 0.24 nadww02



Page 28 of 211 **USGS Home Contact USGS** Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:	
Groundwater ~	United States	∨ GO

Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

■ Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site_no list =

321927104033701

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321927104033701 23S.28E.11.114421

Eddy County, New Mexico

Latitude 32°19'27", Longitude 104°03'37" NAD27

Land-surface elevation 2,991 feet above NAVD88

The depth of the well is 100 feet below land surface.

This well is completed in the Other aguifers (N9999OTHER) national aguifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats					
Table of data					
<u>Tab-separated data</u>					
Graph of data					
Reselect period					

Released to Imaging: 1/11/2024 11:08:19 AM

Date	Time	/1/2023 6:41:17 ? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
947-02-07		D	62610		2973.73	NGVD29	1	Z			
947-02-07		D	62611		2975.30	NAVD88	1	Z			
947-02-07		D	72019	15.70			1	Z			
947-09-24		D	62610		2960.82	NGVD29	Р	Z			
947-09-24		D	62611		2962.39	NAVD88	Р	Z			
947-09-24		D	72019	28.61			Р	Z			
948-01-13		D	62610		2960.13	NGVD29	Р	Z			
948-01-13		D	62611		2961.70	NAVD88	Р	Z			
948-01-13		D	72019	29.30			Р	Z			
949-01-29		D	62610		2973.38	NGVD29	1	Z			
949-01-29		D	62611		2974.95	NAVD88	1	Z			
949-01-29		D	72019	16.05			1	Z			
950-01-19		D	62610		2977.81	NGVD29	1	Z			
950-01-19		D	62611		2979.38	NAVD88	1	Z			
950-01-19		D	72019	11.62			1	Z			
951-01-17		D	62610		2976.41	NGVD29	1	Z			
951-01-17		D	62611		2977.98	NAVD88	1	Z			
951-01-17		D	72019	13.02			1	Z			
952-01-14		D	62610		2973.38	NGVD29	1	Z			
952-01-14		D	62611		2974.95	NAVD88	1	Z			
952-01-14		D	72019	16.05			1	Z			
953-01-24		D	62610		2972.31	NGVD29	1	Z			
953-01-24		D	62611		2973.88	NAVD88	1	Z			
953-01-24		D	72019	17.12			1	Z			
954-01-14		D	62610		2970.07	NGVD29	1	Z			
954-01-14		D	62611		2971.64	NAVD88	1	Z			
954-01-14		D	72019	19.36			1	Z			
955-01-18		D	62610		2974.09	NGVD29	1	Z			
955-01-18		D	62611		2975.66	NAVD88	1	Z			
955-01-18	Imagino	D : 1/11/2024 11:		15.34			1	Z			

1956-01-11	D	62610		2978.53	NGVD29	1	Z
1956-01-11	D	62611		2980.10	NAVD88	1	Z
1956-01-11	D	72019	10.90			1	Z
1957-01-09	D	62610		2974.15	NGVD29	1	Z
1957-01-09	D	62611		2975.72	NAVD88	1	Z
1957-01-09	D	72019	15.28			1	Z
1958-01-15	D	62610		2974.29	NGVD29	1	Z
1958-01-15	D	62611		2975.86	NAVD88	1	Z
1958-01-15	D	72019	15.14			1	Z
1959-01-08	D	62610		2975.77	NGVD29	1	Z
1959-01-08	D	62611		2977.34	NAVD88	1	Z
1959-01-08	D	72019	13.66			1	Z
1960-01-14	D	62610		2974.73	NGVD29	1	Z
1960-01-14	D	62611		2976.30	NAVD88	1	Z
1960-01-14	D	72019	14.70			1	Z
1961-01-12	D	62610		2976.15	NGVD29	1	Z
1961-01-12	D	62611		2977.72	NAVD88	1	Z
1961-01-12	D	72019	13.28			1	Z
1962-01-16	D	62610		2974.63	NGVD29	1	Z
1962-01-16	D	62611		2976.20	NAVD88	1	Z
1962-01-16	D	72019	14.80			1	Z
1963-01-17	D	62610		2975.43	NGVD29	1	Z
1963-01-17	D	62611		2977.00	NAVD88	1	Z
1963-01-17	D	72019	14.00			1	Z
1964-01-20	D	62610		2973.48	NGVD29	1	Z
1964-01-20	D	62611		2975.05	NAVD88	1	Z
1964-01-20	D	72019	15.95			1	Z
1965-01-19	D	62610		2967.68	NGVD29	1	Z
1965-01-19	D	62611		2969.25	NAVD88	1	Z
1965-01-19	D	72019	21.75			1	Z
Released to Imaging: 1/11	1/2024 11:08:19	AM					

1966-01-04	D	62610		2970.19	NGVD29	1	Z
1966-01-04	D	62611		2971.76	NAVD88	1	Z
1966-01-04	D	72019	19.24			1	Z
1967-01-26	D	62610		2973.92	NGVD29	1	Z
1967-01-26	D	62611		2975.49	NAVD88	1	Z
1967-01-26	D	72019	15.51			1	Z
1968-01-26	D	62610		2972.76	NGVD29	1	Z
1968-01-26	D	62611		2974.33	NAVD88	1	Z
1968-01-26	D	72019	16.67			1	Z
1969-01-28	D	62610		2971.66	NGVD29	1	Z
1969-01-28	D	62611		2973.23	NAVD88	1	Z
1969-01-28	D	72019	17.77			1	Z
1970-01-22	D	62610		2975.14	NGVD29	1	Z
1970-01-22	D	62611		2976.71	NAVD88	1	Z
1970-01-22	D	72019	14.29			1	Z
1971-01-13	D	62610		2973.33	NGVD29	1	Z
1971-01-13	D	62611		2974.90	NAVD88	1	Z
1971-01-13	D	72019	16.10			1	Z
1972-01-12	D	62610		2968.52	NGVD29	1	Z
1972-01-12	D	62611		2970.09	NAVD88	1	Z
1972-01-12	D	72019	20.91			1	Z
1973-01-12	D	62610		2972.66	NGVD29	1	Z
1973-01-12	D	62611		2974.23	NAVD88	1	Z
1973-01-12	D	72019	16.77			1	Z
1974-01-18	D	62610		2975.74	NGVD29	1	Z
1974-01-18	D	62611		2977.31	NAVD88	1	Z
1974-01-18	D	72019	13.69			1	Z
1975-01-10	D	62610		2976.65	NGVD29	1	Z
1975-01-10	D	62611		2978.22	NAVD88	1	Z
1975-01-10	D	72019	12.78			1	Z
Released to Imaging: 1/11/2024	11:08:19 AM	Ī					

1976-01-14	D	62610		2975.20	NGVD29	1	Z
1976-01-14	D	62611		2976.77	NAVD88	1	Z
1976-01-14	D	72019	14.23			1	Z
1977-01-14	D	62610		2972.40	NGVD29	1	Z
1977-01-14	D	62611		2973.97	NAVD88	1	Z
1977-01-14	D	72019	17.03			1	Z
1978-01-23	D	62610		2970.28	NGVD29	1	Z
1978-01-23	D	62611		2971.85	NAVD88	1	Z
1978-01-23	D	72019	19.15			1	Z
1979-01-18	D	62610		2975.09	NGVD29	1	Z
1979-01-18	D	62611		2976.66	NAVD88	1	Z
1979-01-18	D	72019	14.34			1	Z
1983-01-26	D	62610		2976.40	NGVD29	1	Z
1983-01-26	D	62611		2977.97	NAVD88	1	Z
1983-01-26	D	72019	13.03			1	Z
1988-02-12	D	62610		2973.85	NGVD29	1	Z
1988-02-12	D	62611		2975.42	NAVD88	1	Z
1988-02-12	D	72019	15.58			1	Z
1988-03-17	D	62610		2973.45	NGVD29	1	Z
1988-03-17	D	62611		2975.02	NAVD88	1	Z
1988-03-17	D	72019	15.98			1	Z
1993-02-03	D	62610		2972.12	NGVD29	1	S
1993-02-03	D	62611		2973.69	NAVD88	1	S
1993-02-03	D	72019	17.31			1	S
1995-07-19	D	62610		2971.03	NGVD29	1	S
1995-07-19	D	62611		2972.60	NAVD88	1	S
1995-07-19	D	72019	18.40			1	S
1996-01-25	D	62610		2971.67	NGVD29	1	S
1996-01-25	D	62611		2973.24	NAVD88	1	S
1996-01-25	D	72019	17.76			1	S
Released to Imaging:	1/11/2024 11:08:19 A	l M					

2003-01-27	D	62610		2969.99	NGVD29	1	S	USGS	S	А
2003-01-27	D	62611		2971.56	NAVD88	1	S	USGS	S	А
2003-01-27	D	72019	19.44			1	S	USGS	S	Α

Explanation

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

Questions about sites/data? Feedback on this web site Automated retrievals

<u>Help</u>

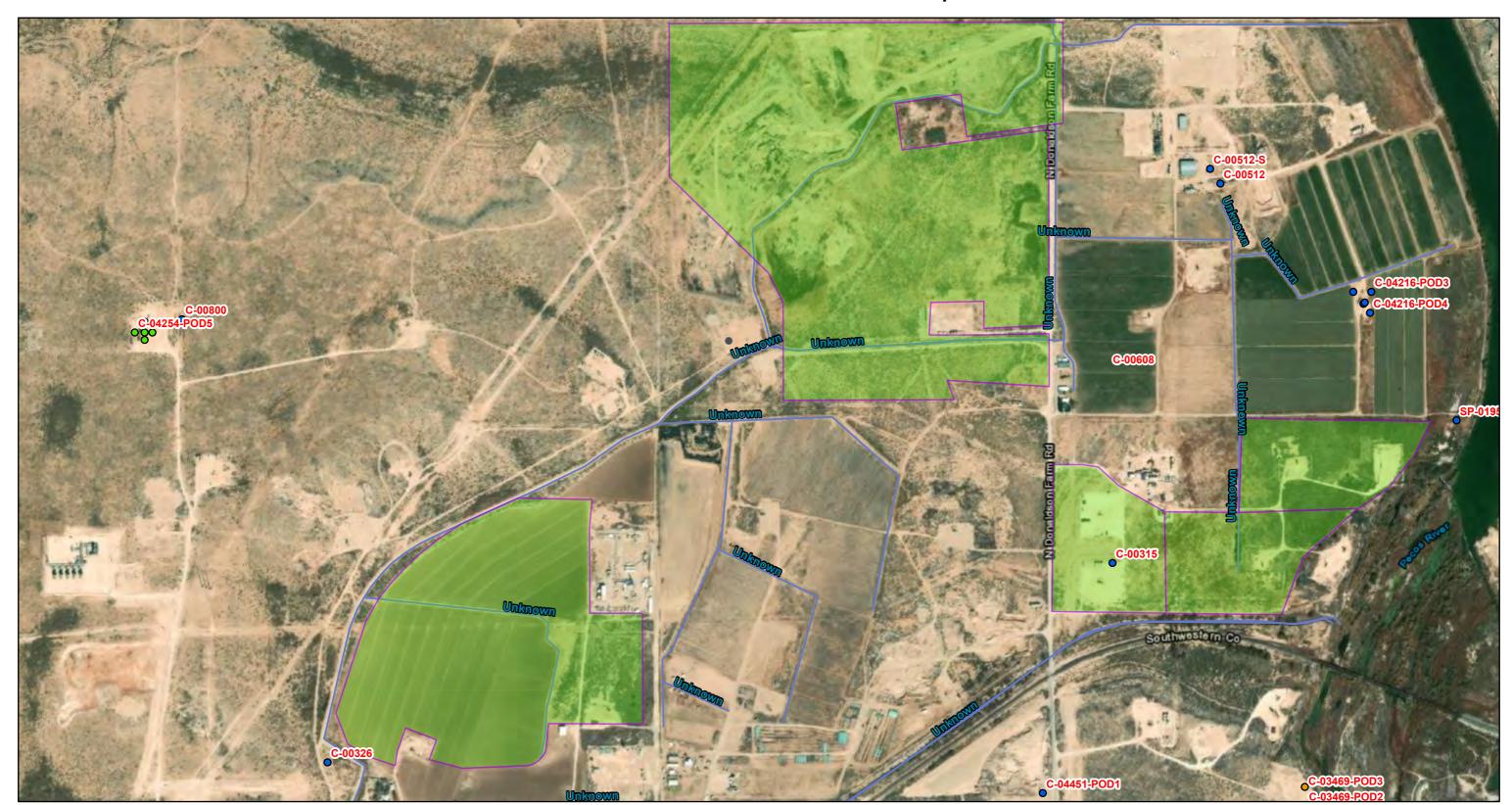
Data Tips

Explanation of terms
Subscribe for system changes

Released to Imaging: 1/11/2024 11:08:19 AM

Page 34 of 211 Received by OCD: 8/1/2023 6:41:17 AM

OSE POD Locations Map



3/17/2022, 10:25:17 AM

GIS WATERS PODs OSE District Boundary Conveyances

Active

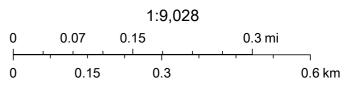
Water Right Regulations

Ditch

Pending

Negative Easement Area SiteBoundaries

Capped



Esri, HERE, GeoTechnologies, Inc., Esri, HERE, Garmin, GeoTechnologies, Inc., U.S. Department of Energy Office of Legacy Management, Maxar



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Qo

Q64 Q16 Q4 Sec Tws Rng

Y

C 00608

3 3 1 11 23S 28E

587970 3576401*

4

Driller License: Driller Company:

Driller Name: NOT CONTRACTED

Drill Start Date: Drill Finish Date:

Plug Date:

Log File Date:

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

7.00 **Depth Well:**

200 feet

Depth Water:

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.

3/17/22 7:54 AM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is closed)

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

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

(In feet)

		POD													
POD Number	Code	Sub- basin	County	_	Q 16	_		Tws	Rnσ	X	Y	DistanceDo	enthWellD	epthWater C	Water Yolumn
C 00608	couc	C	ED				11	23S	28E	587970	3576401*	794	200	epin water c	Olumn
<u>C 00315</u>		CUB	ED	3	1	3	11	23S	28E	587973	3575995*	914	100	45	55
C 00512 CLW198323	О	CUB	ED	4	1	1	11	23S	28E	588167	3576806*	1053	100		
<u>C 00512 S</u>		CUB	ED	4	1	1	11	23S	28E	588167	3576806*	1053	100		
<u>C 00512</u>		CUB	ED	4	1	1	11	23S	28E	588188	3576775	1063	175	15	160
C 00512 EXPL	О	CUB	ED			1	11	23S	28E	588272	3576703*	1124	200	16	184
<u>C 00800</u>		C	ED		4	2	09	23S	28E	586050	3576479*	1127	200	30	170
C 04451 POD1		C	ED	4	4	4	10	23S	28E	587833	3575521	1132	120	57	63
<u>C 00326</u>		CUB	ED	3	3	3	10	23S	28E	586358	3575572*	1197	130	19	111
C 00326 CLW196238	O	CUB	ED	3	3	3	10	23S	28E	586358	3575572*	1197	196	25	171
<u>C 00235</u>		C	ED		2	2	15	23S	28E	587676	3575280*	1267	160		
C 04216 POD2		CUB	ED	1	4	1	11	23S	28E	588465	3576555	1292	20	10	10
<u>C 00109</u>		CUB	ED	1	3	3	04	23S	27E	588486	3576531	1311	168	120	48
C 04216 POD1		CUB	ED	2	4	1	11	23S	28E	588488	3576534	1314	20	10	10
C 04216 POD4		CUB	ED	2	4	1	11	23S	28E	588499	3576513	1323	20	10	10
C 04216 POD3		CUB	ED	1	4	1	11	23S	28E	588501	3576556	1328	23	13	10
C 03469 POD1		CUB	ED	3	4	3	11	23S	28E	588374	3575538	1501	68	38	30
C 03469 POD3		CUB	ED	3	4	3	11	23S	28E	588381	3575538	1506	47		
C 03469 POD2		CUB	ED	3	4	3	11	23S	28E	588382	3575506	1527	48		
<u>C 00321</u>		C	ED		4	2	15	23S	28E	587679	3574874*	1649	120		

Received by OCD: 8/1/2023 6:	41:17 AM	ED		4	2	15	23S	28E	587679	3574874*	9	1649	70	12	58
<u>C 00616</u>	CUB	ED	1	3	1	14	23S	28E	587982	3574978*	9	1673	120	30	90
<u>C 00269</u>	C	ED	4	4	2	15	23S	28E	587778	3574773*	(1776	240	35	205
<u>C 00269 CLW199753</u> C	C	ED	4	4	2	15	23S	28E	587778	3574773*	9	1776	240	35	205
<u>C 00072</u>	CUB	ED	3	3	1	15	23S	28E	586364	3574760*	9	1870	120	54	66
<u>C 04415 POD7</u>	CUB	ED	3	1	4	04	23S	28E	585628	3577518		1884	55	38	17
<u>C 04415 POD3</u>	CUB	ED	4	1	4	04	23S	28E	585645	3577552	6	1890	11		
<u>C 04415 POD2</u>	CUB	ED	4	1	4	04	23S	28E	585653	3577570	9	1894	12		
<u>C 04415 POD8</u>	CUB	ED	4	1	4	04	23S	28E	585656	3577583	9	1899	27	23	4
<u>C 04415 POD1</u>	CUB	ED	4	1	4	04	23S	28E	585657	3577591	9	1903	25	20	5
<u>C 04415 POD5</u>	CUB	ED	4	1	4	04	23S	28E	585652	3577605	9	1916	10		
<u>C 04415 POD6</u>	CUB	ED	4	1	4	04	23S	28E	585652	3577605	9	1916	10		
<u>C 04415 POD4</u>	CUB	ED	3	1	4	04	23S	28E	585628	3577575	9	1917	11		
<u>C 02189</u>	C	ED	1	1	3	14	23S	28E	587985	3574572*	9	2039	48	29	19
<u>C 03762 POD3</u>	CUB	ED	4	2	2	16	23S	28E	586203	3574642	9	2048	40	30	10
<u>C 03460 POD1</u>	CUB	ED	3	1	2	14	23S	28E	588857	3575004	9	2213	100	38	62
<u>C 00311</u>	C	ED	4	2	1	16	23S	28E	585353	3575152*	9	2235	163	55	108
<u>C 00128</u>	C	ED	2	4	4	15	23S	28E	587783	3574162*	9	2362	149		
<u>C 03762 POD2</u>	CUB	ED	4	4	2	17	23S	28E	584893	3575598	9	2435	40	30	10
<u>C 03056</u>	C	ED	3	3	3	04	23S	28E	584772	3577226	9	2528	60	31	29
<u>C 04588 POD1</u>	CUB	ED	2	2	2	04	23S	28E	586043	3578720	9	2542	50		
<u>C 00211</u>	C	ED	4	3	3	15	23S	28E	586570	3573949*	9	2568	89	48	41
<u>C 01336</u>	C	ED	2	1	1	22	23S	28E	586572	3573744*	9	2767	190	30	160
<u>C 01872</u>	C	ED		2	1	22	23S	28E	586878	3573649*	9	2811	68	48	20
<u>C 01216</u>	CUB	ED	4	1	1	13	23S	28E	589801	3575205*		2902	60	45	15
<u>C 04418 POD1</u>	CUB	ED	4	2	1	12	23S	28E	590104	3576851	9	2954	55		
<u>C 01885</u>	C	ED		2	2	21	23S	28E	586070	3573640*	9	3015	104	35	69
<u>C 03762 POD1</u>	CUB	ED	4	4	2	17	23S	28E	585314	3574066	9	3021	40	31	9
C 00520 Released to Imaging: 1/11/202	C 24 11:08:19	ED AM	1	1	3	16	23S	28E	584754	3574538*	•	3083	115	33	82

Page 37 of 211

Received by OCD: 8/1/20 © 00521	023 6:41	:17 AM C	ED	1	1	1 3	3]	16	23S	28E	584754	3574538*	3083	218	33	185
<u>C 00094 AS</u>	C	CUB	ED	1	1	3 2	2 2	22	23S	28E	587183	3573346*	3099	165	40	125
C 00154 CLW194067	O	CUB	ED	3	3 :	2 1	1 2	23	23S	28E	588395	3573566*	3126	150	65	85
<u>C 01108</u>		C	ED	3	3	2 1	1 2	23	23S	28E	588395	3573566*	3126	60	35	25
<u>C 01816</u>		C	ED	1	1	3 1	1 2	23	23S	28E	587992	3573355*	3195	200	40	160
C 01487 CLW201796	O	CUB	ED			3 2	2 2	22	23S	28E	587284	3573247*	3199	90	30	60
<u>C 01253</u>		CUB	ED	1	1	3 1	1 2	22	23S	28E	586375	3573338*	3208	179	50	129
<u>C 00154</u>		CUB	ED	2	4	2 1	1 2	23	23S	28E	588595	3573566*	3209	196	38	158
<u>C 01102</u>		C	ED			1 2	2 2	23	23S	28E	588901	3573672*	3265	100	12	88
<u>C 00504</u>		CUB	ED	3	3	1 4	1 (80	23S	28E	583939	3575949*	3275	230	40	190
<u>C 00094</u>		CUB	ED	3	3 .	4 2	2 2	22	23S	28E	587588	3573151*	3319	100	60	40
<u>C 00094</u>	C	CUB	ED	3	3 4	4 2	2 2	22	23S	28E	587588	3573151*	3319	100	60	40
<u>C 00094 A</u>	C	CUB	ED	3	3 4	4 2	2 2	22	23S	28E	587588	3573151*	3319	166	40	126
<u>C 01487</u>		CUB	ED	3	3 4	4 1	1 2	22	23S	28E	586779	3573142*	3326	150	38	112
<u>C 01217</u>		CUB	ED	4	4	1 3	3]	13	23S	28E	589789	3574371	3334	87	50	37
C 04560 POD2		CUB	ED	1	1 :	3 3	3]	16	23S	28E	584857	3574036	3344	36	25	11
<u>C 01214</u>		CUB	ED	1	1	2 3	3]	13	23S	28E	590010	3574597*	3382	70	20	50
<u>C 00048</u>		CUB	ED	3	3	3 1	1 2	23	23S	28E	587997	3573160	3385	182	75	107
<u>C 00048</u>	C	CUB	ED	3	3	3 1	1 2	23	23S	28E	587997	3573160	3385	182	75	107
C 04490 POD2		CUB	ED	2	2	3 3	3]	13	23S	28E	589899	3574259	3490	23	19	4
<u>C 02847</u>		CUB	ED	2	2	1 4	1 2	22	23S	28E	587386	3572941*	3510	80		
<u>C 02849</u>		CUB	ED	2	2	1 4	1 2	22	23S	28E	587386	3572941*	3510	60		
<u>C 01967</u>		C	ED			2 3	3]	13	23S	28E	590111	3574498*	3521	264	200	64
<u>C 04417 POD1</u>		CUB	ED	2	4	3 3	3 3	36	22S	28E	589736	3578874	3528	55		
<u>C 00453</u>		C	ED	2	2	2 4	1 2	22	23S	28E	587790	3572945*	3553	65		
C 03800 POD1		C	ED	3	3	3 2	2 (05	23S	28E	583927	3577958	3585	97	36	61
<u>C 02796</u>		CUB	ED			2 3	3 2	22	23S	28E	586882	3572838*	3619	200		
<u>C 01215</u>		CUB	ED	2	4	2 3	3]	13	23S	28E	590210	3574397*	3659	104	15	89
C 00443 Released to Imaging: 1/1	11/2024	11:08:19	AM P	4	4 :	2 4	1 2	22	23S	28E	587790	3572745*	3750	171	160	11

Received by OCD. 6/1/20	123 0.41	.1/ AM									•)			
<u>C 02702</u>		C	ED			2	13	23S	28E	590715	3575108*	3782	38	20	18
<u>C 00716</u>		C	ED				21	23S	28E	585471	3573012*	3833	140	69	71
<u>C 00024</u>	O	CUB	ED			3	22	23S	28E	586682	3572629*	3847	242	48	194
<u>C 00327</u>		CUB	ED	3	2	4	21	23S	28E	585974	3572728* 🬗	3906	212		
<u>C 04524 POD1</u>		CUB	ED	1	. 1	2	01	23S	28E	590452	3578629	3936	55		
C 03965 POD5		CUB	ED	4	1	1	24	23S	28E	589864	3573534 🬗	3961	35	31	4
<u>C 01870</u>		C	ED		4	3	22	23S	28E	586885	3572432*	4023	105	48	57
<u>C 00309</u>		CUB	ED	1	. 3	1	08	23S	28E	583129	3576544* 🬗	4049	165	16	149
<u>C 01779</u>		C	ED	3	1	1	08	23S	28E	583128	3576749* 🬗	4060	178	50	128
C 04556 POD1		CUB	ED	4	3	1	24	23S	28E	589720	3573237	4092	40	36	4
<u>C 00869 S-2</u>	O	CUB	ED		3	3	23	23S	28E	588097	3572444*	4105	150	58	92
<u>C 00544</u>		C	ED	3	3	1	21	23S	28E	584762	3573120*	4109	27		
<u>C 02848</u>		CUB	ED	3	3	1	21	23S	28E	584762	3573120*	4109	130		
<u>C 00869</u>		CUB	ED	3	3	4	22	23S	28E	587188	3572335*	4110	360		
C 03965 POD4		CUB	ED		1	4	24	23S	28E	589918	3573381	4110	40	31	9
C 04470 POD1		CUB	ED	3	3 1	3	07	23S	29E	591280	3576086	4118			
<u>C 00500</u>		CUB	ED	4	3	1	24	23S	28E	589811	3573176*	4198	130		
<u>C 00868</u>		CUB	ED	4	3	1	24	23S	28E	589811	3573176*	4198	190		
C 04556 POD2		CUB	ED	4	3	1	24	23S	28E	589891	3573239	4199	40	36	4
C 03974 POD1		C	ED	2	2	1	27	23S	28E	587087	3572220	4225	75	43	32
<u>C 03146</u>		C	ED	1	. 1	3	24	23S	28E	589613	3572970*	4243	82	36	46
C 04539 POD1		CUB	ED	2	2 4	2	01	23S	28E	591034	3578223	4247	55		
C 03216 POD1		C	ED	3	3	1	05	23S	28E	583156	3577913	4280	250		
C 03432 POD1		C	ED	1	. 2	2	27	23S	28E	587527	3572162	4296	115	75	40
<u>C 02243</u>		C	ED	4	4	4	06	23S	28E	582925	3577148*	4309	60	40	20
<u>C 00641</u>		C	ED	2	2 2	1	27	23S	28E	586986	3572126*	4323	115	40	75
C 02141 CLW468812	О	C	ED	2	. 4	4	06	23S	28E	582925	3577348*	4346	65	36	29
C 02846 S Released to Imaging: 1/1	1/2024	CUB 11:08:19	ED AM	4	4	4	07	23S	28E	582926	3575527*	4348	150	40	110

Received by OCD: 8/1/20. © 00851	23 6:41	:17 AM C	ED			3 1	17	23S	28E	583438	3574217*	4352	200	50	150
<u>C 01122</u>		CUB	ED	1	1	1 2	26	23S	28E	587999	3572138*	4384	175	30	145
<u>C 03455 POD1</u>		C	ED	3	3	1 ()5	23S	28E	583040	3577899	4385	57	22	35
C 03472 POD1		CUB	ED	4	4	4 (07	23S	28E	582894	3575479 🌍	4390	140	40	100
<u>C 02141</u>		C	ED		4	4 (06	23S	28E	582826	3577249*	4424	65	36	29
C 02243 CLW469222	O	C	ED		4	4 (06	23S	28E	582826	3577249*	4424	60	40	20
<u>C 00577</u>		C	ED	3	1	3 2	21	23S	28E	584764	3572714*	4443	35	10	25
<u>C 00578</u>		C	ED	3	1	3 2	21	23S	28E	584764	3572714*	4443	28	18	10
<u>C 00643</u>		C	ED	3	1	3 2	21	23S	28E	584764	3572714*	4443	76	10	66
<u>C 00340</u>		C	ED		1	1 2	27	23S	28E	586483	3572022*	4477	117	18	99
C 04490 POD3		CUB	ED	4	1	2 2	24	23S	28E	590596	3573502	4511	37	33	4
<u>C 01634</u>		C	ED		2	4 (06	23S	28E	582825	3577653*	4516	185	85	100
<u>C 01699</u>		C	ED		2	4 (06	23S	28E	582825	3577653*	4516	90	65	25
C 00911 POD2		C	ED	1	2	4 2	20	23S	28E	584359	3572911*	4519	69	34	35
C 00911 POD3		C	ED	1	2	4 2	20	23S	28E	584359	3572911*	4519	218	60	158
<u>C 00036</u>		CUB	ED	3	3	2 3	32	22S	28E	583916	3579583*	4525	106		
<u>C 00236</u>		C	ED	2	2	3 3	32	22S	28E	583723	3579372*	4527	80	39	41
<u>C 00289</u>		CUB	ED	1	1	1 ()5	23S	28E	583128	3578563*	4569		33	
C 04415 POD9		CUB	ED	4	1	4 ()4	23S	28E	585714	3572094 🎒	4589	40	36	4
<u>C 00214</u>		CUB	ED	2	3	3 3	32	22S	28E	583327	3578962*	4599	200		
<u>C 03184</u>		C	ED	2	3	3 3	32	22S	28E	583327	3578962*	4599	157	30	127
<u>C 00650</u>		C	ED	1	3	3 2	21	23S	28E	584767	3572508*	4616	32	12	20
C 04556 POD3		CUB	ED	4	3	1 2	24	23S	28E	590567	3573265	4648	40	36	4
<u>C 00035</u>		CUB	ED	3	3	3 3	32	22S	28E	583127	3578762*	4665	146		
<u>C 00212</u>		CUB	ED	3	3	3 3	32	22S	28E	583127	3578762*	4665	146	30	116
C 00212 CLW193874	O	CUB	ED	3	3	3 3	32	22S	28E	583127	3578762*	4665			
C 03542 POD1		CUB	ED	2	4	4 2	20	23S	28E	584615	3572530	4678	22	16	6
C 03542 POD2		CUB	ED	2	4	4 2	20	23S	28E	584620	3572497	4703	30		
C 90313 Released to Imaging: 1/1	1/2024	11:08:19	AMP	3	3	3 1	17	23S	28E	583136	3573915*	4767	250	75	175

<u>C 00539</u>	C	ED	3 3 3 2	23S 2	8E 584767	3572308*	4787	28	6	22
<u>C 00519</u>	C	ED	2 1 1 28	3 23S 2	8E 584970	3572100*	4873	250		
<u>C 00213</u>	CUB	ED	1 4 1 32	2 22S 2	8E 583517	3579775*	4948	200	35	165
<u>C 03094</u>	C	ED	4 3 1 32	2 22S 2	8E 583317	3579567*	4964	138	53	85

Average Depth to Water:

39 feet

Minimum Depth:

6 feet

Maximum Depth: 200 feet

Record Count: 139

<u>UTMNAD83 Radius Search (in meters):</u>

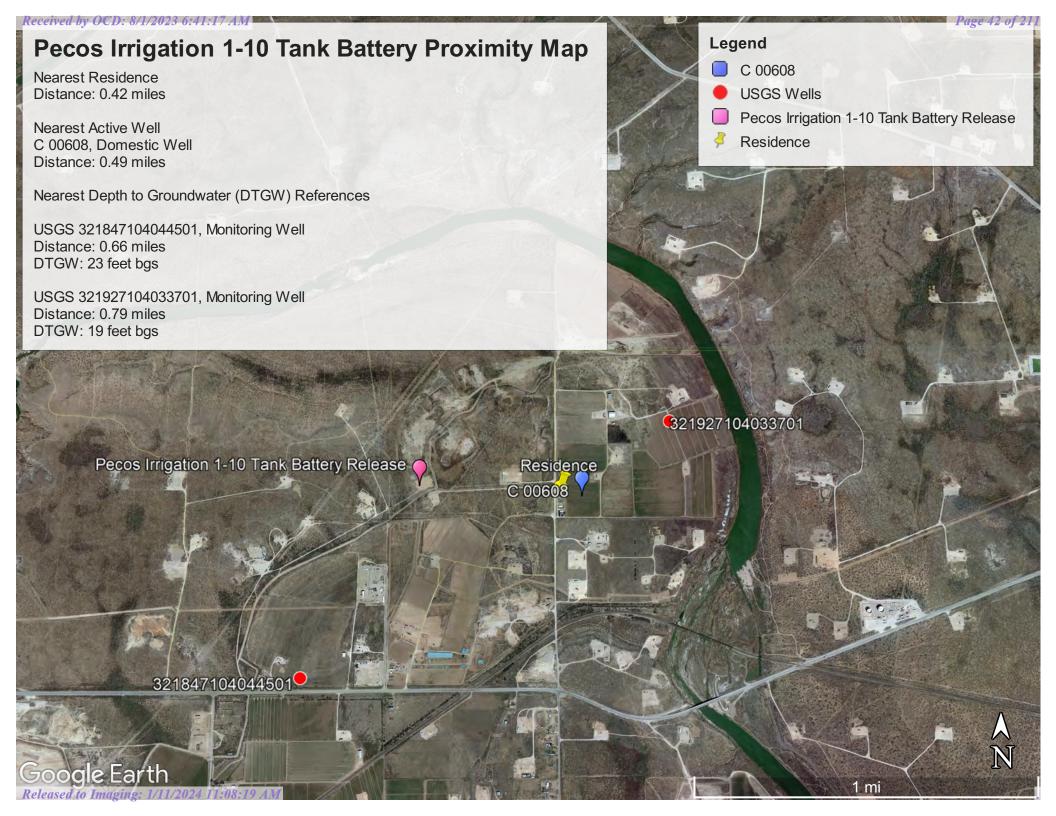
Easting (X): 587177 **Northing (Y):** 3576445 **Radius:** 5000

*UTM location was derived from PLSS - see Help

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

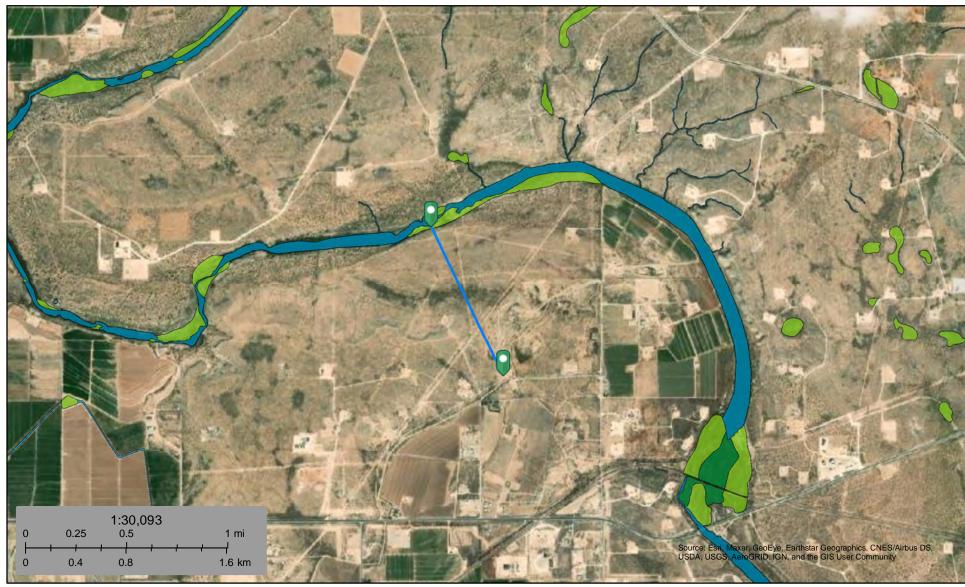
3/17/22 7:24 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER





Pecos River, 3650 feet



March 17, 2022

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

Riverine

Other

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Salt Lake, 13360 feet



March 17, 2022

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Pond

Freshwater Forested/Shrub Wetland

Lake

Other

Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



New Mexico Office of the State Engineer

Water Right Summary

WR File Number: C 00608 Subbasin: C Cross Reference: -

Primary Purpose: DOM 72-12-1 DOMESTIC ONE HOUSEHOLD

Primary Status: CAN CANCELLED

Total Acres: Subfile: - Header: -

Total Diversion: 0 Cause/Case: -

Owner: JOSE AREVALO

Documents on File

Status From/

Trn# Doc File/Act 1 2 Transaction Desc. To Acres Diversion Consumptive

get images 196134 72121 1954-11-24 CAN FIN C 00608 T

Current Points of Diversion

(NAD83 UTM in meters)

 POD Number
 Well Tag
 Source
 64Q16Q4Sec
 Tws Rng
 X
 Y
 Other Location Desc

 C 00608
 3 3 1 11 23S 28E
 587970 3576401*

An () after northing value indicates UTM location was derived from PLSS - see Help

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

3/17/22 7:54 AM WATER RIGHT SUMMARY

Received by OCD: 8/1/2023 6:41:17 AM



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

		(acre	ft per annum)				(R=POD has been replaced an no longer serves this file, C=the file is closed)	(quarte	rs are sm	allest to		SW 4=SE)	JAD83 UTM in me	eters)
WR File Nbr	Sub basin	Use	Diversion Owner	County	POD Number	Well Tag	Code Grant	Source	q q q 64164		Tws	Rng	X Y	Distance
<u>C 00608</u>	C	DOM	0 JOSE AREVALO	ED	<u>C 00608</u>				3 3 1			-		794
<u>C 00315</u>	CUB	IRR	0 JOSE AREVALO	ED	<u>C 00315</u>			Shallow	3 1 3	11	23S	28E 5879	73 3575995*	914
<u>C 00512</u>	CUB	IRR	322.8 ANTONIO C. & GLORIA G. ONSUREZ	ED	<u>C 00512 S</u>			Shallow	4 1 1	11	23S	28E 5881	3576806*	1053
				ED	<u>C 00512</u>			Shallow	4 1 1	11	23S	28E 5881	3576775	1063
<u>C 03536</u>	C	PRO	0 GLENN'S WATER WELL SERVICE	ED	<u>C 00512</u>			Shallow	4 1 1	11	23S	28E 5881	3576775	1063
<u>C 00485</u>	CUB	IRR	0 G.W. CRISP	ED	<u>C 00485</u>				1 1 2	15	23S	28E 5871	70 3575375*	1070
<u>C 00800</u>	C	DOL	0 E.F. ROSSON	ED	<u>C 00800</u>			Shallow	4 2	09	23S	28E 5860	50 3576479*	1127
<u>C 04451</u>	C	DOL	3 ALFRED CARRASCO	ED	<u>C 04451 POD1</u>	20C1F		Shallow	4 4 4	10	23S	28E 5878	3575521	1132
<u>C 04254</u>	CUB	MON	0 OXY USA INC	ED	<u>C 04254 POD3</u>	NA			4 2	09	23S	28E 5859	3576451	1187
<u>C 00326</u>	CUB	IRR	221.45 JACKIE D MCDONALD	ED	<u>C 00326</u>			Shallow	3 3 3	10	23S	28E 5863	58 3575572*	1197
<u>C 04254</u>	CUB	MON	0 BUREAU OF LAND MANAGEMENT	ED	<u>C 04254 POD2</u>	NA			4 2	09	23S	28E 5859	73 3576435	1203
				ED	<u>C 04254 POD1</u>				4 2	09	23S	28E 5859	73 3576451	1203
				ED	<u>C 04254 POD4</u>				4 2	09	23S	28E 5859	73 3576472	1204
				ED	<u>C 04254 POD5</u>				4 2	09	23S	28E 5859	3576451	1224
<u>C 00235</u>	C	STK	3 LEE S. WILLIAMS	ED	<u>C 00235</u>			Shallow	2 2	15	23S	28E 5876	76 3575280*	1267
<u>C 04216</u>	CUB	MON	0 ROCKCLIFF OPERATING NM LLC	ED	<u>C 04216 POD2</u>	NA		Shallow	1 4 1	11	23S	28E 5884	54 3576555	1292
<u>C 00098</u>	CUB	IRR	405.39 JAMES B KENNEY	ED	<u>C 00109</u>	NA		Shallow	1 3 3	04	23S	27E 5884	3576531	1311
<u>C 00109</u>	CUB	IRR	405.39 MONTIE BUNCH	ED	<u>C 00109</u>	NA		Shallow	1 3 3	04	23S	27E 5884	3576531	1311
<u>C 04219</u>	CUB	PRO	0 ATKINS ENGR ASSOC INC	ED	<u>C 00109</u>	NA		Shallow	1 3 3	04	23S	27E 5884	3576531	1311
<u>C 04216</u>	CUB	MON	0 ROCKCLIFF OPERATING NM LLC	ED	<u>C 04216 POD1</u>	NA		Shallow	2 4 1	11	23S	28E 5884	3576534	1314
				ED	<u>C 04216 POD4</u>			Shallow	2 4 1	11	23S	28E 5884	99 3576513	1323
				ED	<u>C 04216 POD3</u>			Shallow	1 4 1	11	23S	28E 5885	3576556	1328
C 03469	CUB	POL	0 BTA OIL PRODUCERS, LLC	ED	C 03469 POD1			Shallow	3 4 3	11	23S	28E 5883	73 3575538	1501
				ED	C 03469 POD3				3 4 3	11	23S	28E 5883	3575538	1506
SP 01955	CUB	IRR	150.8 U.S. BANK NATIONAL ASSO. INTREPID	ED	SP 01955					11	23S	28E 5886	3576294*	1510
C 03469 Released to	CUB Imaging		MINING NM LLC 0 BTA OIL PRODUCERS, LLC 1/2024 11:08:19 AM	ED	<u>C 03469 POD2</u>				3 4 3	11	23S	28E 5883	3575506	1527

Received by (OCD: 8/4/2/02	23 6:41:17sAMalencia	ED <u>C 04268</u>	20772	1 3 1 14 23S 28E	587894	3575069Page 47 of 211
<u>C 00321</u>	C DOM	0 W.J. BAILEY	ED <u>C 00321</u>		4 2 15 23S 28E	587679 3	574874*
<u>C 02503</u>	C DOM	3 JIMMY G TARVIN SR	ED <u>C 02503</u>		Shallow 4 2 15 23S 28E	587679 3	574874*
<u>C 00616</u>	CUB IRR	0 LEE & WELMA VOIGT	ED <u>C 00616</u>		Shallow 1 3 1 14 23S 28E	587982 3	1673
<u>C 01328</u>	CUB IRR	0 URQUIDEZ VICENTE L	ED <u>C 01328</u>		3 3 2 15 23S 28E	587173 3	1676
<u>C 02810</u>	C DOM	3 JOHN REID	ED <u>C 02810</u>		4 3 2 15 23S 28E	587373 3	574769*
<u>C 02926</u>	C STK	3 JOHNNY L REID	ED <u>C 02926</u>		4 3 2 15 23S 28E	587373 3	574769*
<u>C 00001</u>	CUB IRR	0 W H SWEARINGEN	ED <u>C 00001</u>		Shallow 2 4 04 23S 28E	586037 3	1690
<u>SP 00302</u>	CUB IND	4639.5 INTREPID MINING NM LLC US BANK NATIONAL ASSOCIATION	ED <u>SP 00302</u>		1 4 11 23S 28E	588886 3	576107*
<u>SP 01942</u>	CUB IND	10868 INTREPID MINING NM LLC US BANK NATIONAL ASSOCIATION	ED <u>SP 01942</u>		1 4 11 23S 28E	588886 3	576107*
<u>SP 02045</u>	CUB IND	18100 INTREPID MINING NM LLC US BANK NATIONAL ASSOCIATION	ED <u>SP 02045</u>		1 4 11 23S 28E	588886 3	576107*
<u>C 02928</u>	C PUB	0 NEW MEXICO STATE HIGHWAY & T.D	ED <u>C 02928</u>		2 1 14 23S 28E	588486 3	575290*
<u>C 01450</u>	C PUB	0 GARDNER BRIDGE CO.	ED <u>C 01450</u>		2 2 1 14 23S 28E	588585 3	1760
<u>C 00269</u>	C IRR	3 JOHNNY GIOVENGO JR.	ED <u>C 00269</u>		Shallow 4 4 2 15 23S 28E	587778 3	1776
<u>C 01352</u>	C DOM	3 DH MAGBY	ED <u>C 00269</u>		Shallow 4 4 2 15 23S 28E	587778 3	1776
			ED <u>C 01352</u>		4 4 2 15 23S 28E	587778 3	1776
<u>C 01364</u>	C DOM	3 DANIEL H MAGBY	ED <u>C 00269</u>		Shallow 4 4 2 15 23S 28E	587778 3	1776
<u>C 00072</u>	CUB IRR	552 JL NYMEYER	ED <u>C 00072</u>		Shallow 3 3 1 15 23S 28E	586364 3	1870
<u>C 04415</u>	CUB MON	0 DEVON ENERGY CORP	ED <u>C 04415 POD13</u>	NA	4 1 4 04 23S 28E	585677	3577582
			ED <u>C 04415 POD7</u>		Shallow 3 1 4 04 23S 28E	585627	3577518 1884
			ED <u>C 04415 POD3</u>		4 1 4 04 23S 28E	585644	3577552 1890
			ED <u>C 04415 POD2</u>		4 1 4 04 23S 28E	585653	3577570 1894
			ED <u>C 04415 POD11</u>		4 1 4 04 23S 28E	585652	3577570 1895
			ED <u>C 04415 POD8</u>		Shallow 4 1 4 04 23S 28E	585656	3577583 1899
			ED <u>C 04415 POD17</u>		4 1 4 04 23S 28E	585677	3577614 1901
			ED <u>C 04415 POD1</u>		Shallow 4 1 4 04 23S 28E	585657	3577591 1903
			ED <u>C 04415 POD21</u>		4 1 4 04 23S 28E	585648	3577585
			ED <u>C 04415 POD10</u>		4 1 4 04 23S 28E	585656	3577597 1907
			ED <u>C 04415 POD20</u>		3 1 4 04 23S 28E	585624	3577562
			ED <u>C 04415 POD5</u>		4 1 4 04 23S 28E	585651	3577605
			ED <u>C 04415 POD6</u>		4 1 4 04 23S 28E	585651	3577605
			ED <u>C 04415 POD4</u>		3 1 4 04 23S 28E	585628	3577575
Released to I	maoino· 1/11	1/2024 11:08:19 AM	ED <u>C 04415 POD12</u>		3 1 4 04 23S 28E	585627	3577585 1923

Received by C	OCD: 8/1/202	23 6:41:17 AM	ED <u>C 04415 POD16</u>		3 1 4 04 238 28E 585636 3577608 Page 48 Qf2	211
<u>C 00501</u>	CUB IRR	93.51 EQUITABLE LIFE ASSURANCE SOCIETY	ED <u>C 00501</u>		1 2 3 15 23S 28E 586772 3574559* 👝 192	.8
<u>C 00501 C</u>	CUB IRR	2.67 CARRASCO CANDELARIO JR	ED <u>C 00501</u>		1 2 3 15 23S 28E 586772 3574559* 192	.8
<u>C 00501 CA</u>	CUB IRR	111 NORWEST BANK NEW MEXICO AS MORTGAGEE	ED <u>C 00501</u>		1 2 3 15 23S 28E 586772 3574559* 6 192	.8
<u>C 04415</u>	CUB MON	0 WSP USA	ED <u>C 04415 POD22</u>	NA	3 1 4 04 23S 28E 585578 3577532 193	3
			ED <u>C 04415 POD15</u>		3 1 4 04 23S 28E 585587 3577580 195	3
			ED <u>C 04415 POD14</u>		3 1 4 01 23S 28E 585555 3577636 201	2
<u>C 02189</u>	C PRO	0 RB OPERATING COMPANY	ED <u>C 02189</u>		Shallow 1 1 3 14 23S 28E 587985 3574572* 203	9
<u>C 03762</u>	CUB MON	0 SOUTHWEST ENGINEERING INC	ED <u>C 03762 POD3</u>		Shallow 4 2 2 16 23S 28E 586203 3574642 204	-8
SD 01094	CUB IND	381.6 UNITED STATES POTASH COMPANY	ED <u>SD 01094</u>		02 23S 28E 588668 3577916* 2 09	4
<u>C 00501</u>	CUB IRR	(NSL) A CORP. 93.51 EQUITABLE LIFE ASSURANCE SOCIETY	ED <u>C 00501 A-S</u>		Shallow 3 2 3 15 23S 28E 586772 3574359* 212	.4
			ED <u>C 00501 AS</u>		Shallow 3 2 3 15 23S 28E 586766 3574353 213	1
<u>C 00501 A</u>	CUB IRR	443.64 HENRY E MCDONALD	ED <u>C 00501 AS</u>		Shallow 3 2 3 15 23S 28E 586766 3574353 213	1
<u>C 00501 D</u>	CUB IRR	296.46 NELDA ONSUREZ	ED <u>C 00501 AS</u>		Shallow 3 2 3 15 23S 28E 586766 3574353 213	1
<u>C 01257</u>	CUB EXP	0 U.S. BORAX & CHEM. CORP.	ED <u>C 01257</u>		4 1 2 14 23S 28E 588990 3575194* 220	2
<u>C 03460</u>	CUB EXP	0 HUNGRY HORSE, LLC	ED <u>C 03460 POD1</u>		Shallow 3 1 2 14 23S 28E 588857 3575004 221	.3
<u>C 00311</u>	C DOM	3 CARTER FARMS CO.	ED <u>C 00311</u>		Shallow 4 2 1 16 23S 28E 585353 3575152* 223	,5
<u>C 00002</u>	CUB IRR	0 W H SWEARINGEN	ED <u>C 00002</u>		Shallow 2 2 3 04 23S 28E 585345 3577785* 226	,9
<u>C 01446</u>	C PUB	0 NM STATE HWY DEPT.	ED <u>C 01446</u>		14 23S 28E 588692 3574670* 233	3
<u>C 00128</u>	C DOL	3 YLARIO URQUIDEZ	ED <u>C 00128</u>		Shallow 2 4 4 15 23S 28E 587783 3574162* 236	2
<u>C 01256</u>	CUB EXP	0 U.S. BORAX & CHEM. CORP.	ED <u>C 01256</u>		3 2 2 14 23S 28E 589196 3575199* O 237	2
<u>C 04121</u>	C SAN	1 CENTURION PIPELINE LTD PRTNRSH	ED <u>C 04121 POD1</u>	NA	1 3 3 12 23S 28E 589536 3575898 242	.2
<u>C 03762</u>	CUB MON	0 VILLAGE OF LOVING	ED <u>C 03762 POD2</u>		Shallow 4 4 2 17 23S 28E 584892 3575598 243	,5
<u>C 00501 A</u>	CUB IRR	443.64 HENRY E MCDONALD	ED <u>C 00501 A</u>		Shallow 3 3 4 15 23S 28E 587179 3573958* 248	.7
<u>C 00501 B</u>	CUB IRR	194.49 UFFIE LAND CO	ED <u>C 00501 A</u>		Shallow 3 3 4 15 23S 28E 587179 3573958* 248	7
<u>C 03056</u>	C DOL	3 BRANTLEY BROTHERS	ED <u>C 03056</u>		Shallow 3 3 3 04 238 28E 584772 3577226 252	.8
<u>C 04588</u>	CUB MON	0 NOVO OIL & GAS NORTHERN DE LLC	ED <u>C 04588 POD1</u>	NA	Shallow 2 2 2 04 23S 28E 586043 3578720 254	,2
<u>C 00211</u>	C DOM	3 DAVID A. CARPENTER	ED <u>C 00211</u>		Shallow 4 3 3 15 23S 28E 586570 3573949* 256	8
<u>C 00127</u>	CUB IRR	0 C.E. HICKS	ED <u>C 00127</u>		2 2 1 22 23S 28E 586977 3573748* 270	4
<u>C 00757</u>	CUB EXP	0 E.F. ROSSON	ED <u>C 00757</u>		2 4 08 23S 28E 584444 3576055* 276	0
<u>C 01336</u>	C DOM	3 JAMES NYMEYER	ED <u>C 01336</u>		Shallow 2 1 1 22 23S 28E 586572 3573744* 276	7
<u>C 03801</u>	C STK	0 DRAPER BRANTLEY	ED <u>C 03801 POD1</u>		4 4 4 05 23S 28E 584459 3577112 279	8
<u>C 01872</u>	C DOL	3 PEGGY JUNE DOYLE	ED <u>C 01872</u>		Shallow 2 1 22 23S 28E 586878 3573649* 281	.1
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Received by	OCD: 8/1/2023	6:41;17;4Mon north am expl & prod	ED <u>C 04252 POD1</u>	NA		4 4 3 14 23S 28E	588513	3573957 Page 49 of 211
<u>C 00791</u>	CUB MIN	0 MISSISSIPPI CHEMICAL COMPANY	ED <u>C 00791</u>			1 3 1 13 23S 28E	589603	3574999* 2824
<u>C 01212</u>	CUB EXP	0 U.S. BORAX & CHEM. CORP.	ED <u>C 01212</u>			1 3 1 13 23S 28E	589603	3574999* 2824
<u>C 01293</u>	CUB EXP	0 U.S. BORAX & CHEM. CORP.	ED <u>C 01293</u>			1 3 1 13 23S 28E	589603	3574999* 2824
<u>C 00333</u>	CUB IRR	585.6 CURTIS K. AND CAROLE D. SKEEN	ED <u>C 00333 S-2</u>			3 4 2 08 23S 28E	584343	3576360* 2835
<u>C 01216</u>	CUB EXP	0 U.S. BORAX & CHEM. CORP.	ED <u>C 01216</u>		Shallov	w 4 1 1 13 23S 28E	589801	3575205* 2902
<u>C 00004</u>	CUB IRR	0 WH SWEARINGEN	ED <u>C 00004</u>			2 2 4 05 23S 28E	584542	3577775* 2951
<u>C 04418</u>	CUB MON	0 WPX ENERGY	ED <u>C 04418 POD1</u>	NA		4 2 1 12 23S 28E	590103	3576851 2954
<u>C 01885</u>	C DOM	3 FRANK LONDON	ED <u>C 01885</u>		Shallov	w 2 2 21 23S 28E	586070	3573640* 3015
<u>C 03762</u>	CUB MON	0 SOUTHWEST ENGINEERING INC	ED <u>C 03762 POD1</u>		Shallov	w 4 4 2 17 23S 28E	585313	3574066 3021
<u>C 00003</u>	CUB IRR	0 W H SWEARINGEN	ED <u>C 00003</u>			4 4 2 05 23S 28E	584543	3577979* 3048
<u>C 01255</u>	CUB EXP	0 U.S. BORAX & CHEM. CORP.	ED <u>C 01255</u>			1 1 3 13 23S 28E	589606	3574593* 3054
<u>C 00333</u>	CUB IRR	585.6 FARM CREDIT BANK OF NEW MEXICO	ED <u>C 00333 S</u>			4 1 2 08 23S 28E	584138	3576760* 3055
<u>C 00520</u>	C DOM	3 CARTER FARMS CO.	ED <u>C 00520</u>		Shallov	w 1 1 3 16 23S 28E	584754	3574538* 3083
<u>C 00521</u>	C STK	3 CARTER FARMS CO.	ED <u>C 00521</u>		Shallov	w 1 1 3 16 23S 28E	584754	3574538* 3083
<u>C 00094 A</u>	CUB CLS	0 DOROTHY W. QUEEN	ED <u>C 00094 AS</u>	C	Shallov	w 1 3 2 22 23S 28E	587183	3573346* 3099
<u>C 00048 A</u>	CUB CLS	0 WILLIAM & MARIA T STENNIS REVOCABLE TRUST	ED <u>C 00154 POD2</u>	C		3 2 1 23 23S 28E	588395	3573566*
<u>C 00154</u>	CUB CLS	0 JOHNNY L. REID	ED <u>C 00154 POD2</u>			3 2 1 23 23S 28E	588395	3573566*
<u>C 01108</u>	C STK	3 CLARENCE REID	ED <u>C 01108</u>		Shallov	w 3 2 1 23 23S 28E	588395	3573566* 3126
<u>C 04463</u>	C DOL	3 HENRY MCDONALD	ED <u>C 04463 POD1</u>	20C6E		1 3 1 22 23S 28E	586276	3573423 3152
<u>C 01258</u>	CUB EXP	0 US BORAX & CHEM. CORP.	ED <u>C 01258</u>			3 1 3 13 23S 28E	589606	3574393* 3179
<u>C 01816</u>	C DOL	3 A R DONALDSON	ED <u>C 01816</u>		Shallov	w 1 3 1 23 23S 28E	587992	3573355*
<u>C 01253</u>	CUB IRR	277.644 NEW MEXICO INTERSTATE STREAM	ED <u>C 01253</u>		Shallov	w 1 3 1 22 23S 28E	586375	3573338* 3208
<u>C 00154</u>	CUB CLS	0 JOHNNY L. REID	ED <u>C 00154</u>		Shallov	w 4 2 1 23 23S 28E	588595	3573566* 3209
<u>C 04584</u>	CUB MON	0 MOSAIC POTASH CARLSBAD INC	ED <u>C 04584 POD1</u>	NA		3 1 4 12 23S 28E	590391	3576064 3237
<u>C 01236</u>	C DOM	3 MARY G. POLK	ED <u>C 01236</u>			2 17 23S 28E	584245	3575035* 3253
<u>C 01102</u>	C STK	3 C. L. REID	ED <u>C 01102</u>		Shallov	w 1 2 23 23S 28E	588901	3573672* 3265
<u>C 00504</u>	CUB IRR	214.5 GUMESINDA ONSUREZ TRUST	ED <u>C 00504</u>		Shallov	w 3 1 4 08 23S 28E	583939	3575949*
<u>C 00048</u>	CUB CLS	0 JACKIE REID	ED <u>C 00094</u>	С	Shallov	w 3 4 2 22 23S 28E	587588	3573151* 3319
<u>C 00094 A</u>	CUB CLS	0 DOROTHY W. QUEEN	ED <u>C 00094</u>	С	Shallov	w 3 4 2 22 23S 28E	587588	3573151* 3319
			ED <u>C 00094 A</u>	С	Shallov	w 3 4 2 22 23S 28E	587588	3573151* 3319
<u>C 00154</u>	CUB CLS	0 JOHNNY L. REID	ED <u>C 00094</u>		Shallov	w 3 4 2 22 23S 28E	587588	3573151* 3319
C 00585 Released to	CUB IRR Imaging: 1/11/	0 FRANK L. LONDON 2024 11:08:19 AM	ED <u>C 00585</u>			3 1 2 21 23S 28E	585566	3573535* 3326

Received by	OCD: 8/1/202	3 6:41:17 AM 220:8 JAVIER'S.& BRETHA A. JASSO	ED <u>C 01487</u>		Shallow 3 4 1 22 23S 28E	586779 3573142 Page 50 af 211
<u>C 02913</u>	C DOL	3 JAVIER S JASSO	ED <u>C 02913</u>		3 4 1 22 23S 28E	586779 3573142* 3326
<u>C 01217</u>	CUB COM	150 INTREPID MINING NM LLC US BANK	ED <u>C 01217</u>		Shallow 4 1 3 13 23S 28E	589788 3574371 3334
SP 00302	CUB IND	NATIONAL ASSOCIATION 4639.5 INTREPID MINING NM LLC US BANK	ED <u>C 01217</u>		Shallow 4 1 3 13 23S 28E	589788 3574371 3334
C 01213	CUB EXP	NATIONAL ASSOCIATION 0 U.S. BORAX & CHEM. CORP.	ED <u>C 01213</u>		4 1 3 13 23S 28E	589806 3574393* 3335
<u>C 04560</u>	CUB MON	0 VILLAGE OF LOVING	ED <u>C 04560 POD2</u>	NA	Shallow 1 3 3 16 23S 28E	584856 3574036 3344
<u>C 04584</u>	CUB MON	0 MOSAIC POTASH CARLSBAD INC	ED <u>C 04584 POD2</u>	NA	4 2 1 13 23S 28E	590250 3575123 3345
C 00793	CUB EXP	0 E.F. ROSSON	ED <u>C 00793</u>		08 23S 28E	583834 3576237* 3349
<u>C 01214</u>	CUB EXP	0 U.S. BORAX & CHEM. CORP.	ED <u>C 01214</u>		Shallow 1 2 3 13 23S 28E	590010 3574597* 3382
<u>C 00048</u>	CUB CLS	0 JOHHNY L. REID	ED <u>C 00048</u>	C	Shallow 3 3 1 23 23S 28E	587997 3573160 3385
C 00048 1	CUB IRR	124.589 JOHNNY L REID	ED C 00048		Shallow 3 3 1 23 23S 28E	587997 3573160 3385
C 00048 2	CUB STO	0.739 JACKIE REID	ED C 00048		Shallow 3 3 1 23 23S 28E	587997 3573160 3385
C 00048 A	CUB CLS	0 WILLIAM & MARIA T STENNIS	ED C 00048	C	Shallow 3 3 1 23 23S 28E	587997 3573160 3385
C 00154	CUB CLS	REVOCABLE TRUST 0 JOHNNY L. REID	ED C 00048		Shallow 3 3 1 23 23S 28E	587997 3573160 3385
C 04490	CUB MON	0 MOSAIC POTASH CARLSBAD INC	ED C 04490 POD2	NA	Shallow 2 3 3 13 23S 28E	589898 3574259 3490
C 02847	CUB COM	40 DRAPER BRANTLEY JR.	ED C 02847		2 1 4 22 23S 28E	587386 3572941* 3510
C 02849	CUB COM	40 HENRY MCDONALD	ED C 02849		2 1 4 22 23S 28E	587386 3572941* 3510
C 01967	C DOM	3 RAE COLEMAN	ED <u>C 01967</u>		Shallow 2 3 13 23S 28E	590111 3574498* 3521
C 04417	CUB MON	0 WPX ENERGY	ED C 04417 POD1	NA	4 3 3 36 22S 28E	589735 3578874 3528
C 00453	C DOM	3 MAXIMIANO JASSO	ED C 00453		2 2 4 22 23S 28E	587790 3572945* 3 553
C 03800	C STK	3 DRAPER BRANTLEY	ED C 03800 POD1	2231C	Shallow 3 3 2 05 23S 28E	583926 3577958 3585
C 01961	C DOL	0 DRAPER BRANTLEY JR	ED C 01961	22310	1 4 22 23S 28E	587287 3572842* 3604
C 02796	CUB MON	0 IMC	ED C 02796		2 3 22 23S 28E	586882 3572838* 3619
<u>C 02790</u> <u>C 02322</u>	C DOM	3 EULINE KELLY	ED <u>C 02322</u>		05 23S 28E	583832 3577858* 3631
C 01215	CUB EXP	0 U.S. BORAX & CHEM.	ED C 01215		Shallow 4 2 3 13 23S 28E	590210 3574397* 3 659
C 00024	CUB IRR	246.959 JACKIE D MCDONALD	ED <u>C 00024 S</u>		1 3 22 23S 28E	586478 3572834* 3678
<u>C 00306</u>	CUB IRR	210 HAYDEN EDWARD & DEBRA ANN	ED <u>C 00306 S</u>		Shallow 3 3 2 21 23S 28E	585568 3573129* 3685
		KIMBLEY				_
C 00306 A	CUB IRR	170.062 HENRY E MCDONALD	ED <u>C 00306 S</u>		Shallow 3 3 2 21 23S 28E	585568 3573129* 3685
C 00306 B	CUB IRR	225.6 DEBRA ANN KIMBLEY	ED <u>C 00306 S</u>		Shallow 3 3 2 21 23S 28E	585568 3573129* 3685
<u>C 01773</u>	CUB IRR	0 A. C. BURKHAM	ED <u>C 01773 S</u>		3 3 2 21 23S 28E	585568 3573129* 3685
<u>C 01218</u>	CUB EXP	0 U.S. BORAX & CHEM. CORP.	ED <u>C 01218</u>		3 4 3 13 23S 28E	590012 3573991* 3749
<u>C 00443</u>	C DOM	3 NIEVES B. JASSO	ED <u>C 00443</u>	27.	Shallow 4 2 4 22 23S 28E	587790 3572745* 3750
C 03965 Released to	CUB MON Imaging: 1/11	0 ARCADIS US INC-CHEVRON /2024 11:08:19 AM	ED <u>C 03965 POD11</u>	NA	2 4 2 23 23S 28E	589503 3573464 3781

Received by	OCD: 8/1/2023	6:41:17 AM IMC KALIUM	ED <u>C 02702</u>		Shallow 2 13 23S 28E	590715 3575108*Page 51 of 211
<u>C 02703</u>	С	0 IMC KALIUM	ED <u>C 02703</u>		2 13 23S 28E	590715 3575108* 3782
C 03965	CUB MON	0 ARCADIS US INC-CHEVRON	ED <u>C 03965 POD8</u>	NA	4 1 1 24 23S 28E	589722 3573587 3827
<u>C 00605</u>	C IRR	0 LOVING MUNICIPAL SCHOOLS	ED <u>C 00605</u>		21 23S 28E	585471 3573012* 3833
<u>C 00716</u>	C DOM	3 MRS. LEONARD JONES	ED <u>C 00716</u>		Shallow 21 23S 28E	585471 3573012* 3833
<u>C 00024</u>	CUB IRR	246.959 HENRY E MCDONALD	ED <u>C 00327</u>		Shallow 3 2 4 21 23S 28E	585974 3572728* 3906
<u>C 00327</u>	CUB IRR	269.881 HENRY E MCDONALD	ED <u>C 00327</u>		Shallow 3 2 4 21 23S 28E	585974 3572728* 3906
<u>C 03965</u>	CUB MON	0 ARCADIS US INC-CHEVRON	ED <u>C 03965 POD9</u>	NA	1 3 1 24 23S 28E	589707 3573460 3912
			ED <u>C 03965 POD7</u>		4 1 1 24 23S 28E	589883 3573599 3927
<u>C 04524</u>	CUB MON	0 NOVO OIL & GAS NORTHERN	ED <u>C 04524 POD1</u>	NA	1 1 2 01 23S 28E	590451 3578629 3936
<u>C 01819</u>	CUB EXP	0 CITY OF CARLSBAD	ED <u>C 01819 M-7</u>		1 4 1 33 22S 28E	585119 3579801* 3936
<u>C 04584</u>	CUB MON	0 MOSAIC POTASH CARLSBAD INC	ED <u>C 04584 POD3</u>	NA	3 2 2 13 23S 28E	590887 3575127 3936
<u>C 03965</u>	CUB MON	0 ARCADIS US INC-CHEVRON	ED <u>C 03965 POD5</u>		Shallow 4 1 1 24 23S 28E	589864 3573534 3961
			ED <u>C 03965 POD1</u>		2 3 1 24 23S 28E	589799 3573463 3970
<u>C 02912</u>	C DOL	0 BILL H KIRKES	ED <u>C 02912 POD2</u>		3 3 1 08 23S 28E	583157 3576430 4019
<u>C 01870</u>	C DOL	3 JAMES L MCCLARY	ED <u>C 01870</u>		Shallow 4 3 22 23S 28E	586885 3572432* 4023
<u>C 03965</u>	CUB MON	0 ARCADIS US INC-CHEVRON	ED <u>C 03965 POD2</u>		2 3 1 24 23S 28E	589891 3573473 4024
<u>C 00309</u>	C IRR	42.903 BILL H. KIRKES	ED <u>C 00309</u>		Shallow 1 3 1 08 23S 28E	583129 3576544* 4049
<u>C 00309 A</u>	CUB IRR	292.497 JOSE H. & MIQUELA C. VILLA	ED <u>C 00309</u>		Shallow 1 3 1 08 23S 28E	583129 3576544* 4049
<u>C 02912</u>	C DOL	0 BILL H KIRKES	ED <u>C 02912</u>	R	3 3 1 08 23S 28E	583129 3576344 4049
<u>C 04564</u>	CUB MON	0 ARCADIS US INC-CHEVRON ENVIRO	ED <u>C 04564 POD1</u>	NA	3 3 1 24 23S 28E	589705 3573277 4053
<u>C 03965</u>	CUB MON	0 ARCADIS US INC-CHEVRON	ED <u>C 03965 POD10</u>	NA	2 3 1 24 23S 28E	589813 3573358 4059
<u>C 01779</u>	C DOM	3 JOSE VILLA	ED <u>C 01779</u>		Shallow 3 1 1 08 23S 28E	583128 3576749* 4060
<u>C 03173</u>	C PRO	0 OXY PARTNERS	ED <u>C 01779</u>		Shallow 3 1 1 08 23S 28E	583128 3576749* 4060
<u>C 03965</u>	CUB MON	0 ARCADIS US INC-CHEVRON	ED <u>C 03965 POD3</u>		3 2 1 24 23S 28E	590013 3573527 4069
			ED <u>C 03965 POD6</u>		3 2 1 24 23S 28E	590020 3573526 4074
<u>C 04556</u>	CUB MON	0 ARCADIS US INC/CHEVRON ENVIRO	ED <u>C 04556 POD1</u>	NA	Shallow 4 3 1 24 23S 28E	589719 3573237 4092
<u>C 04564</u>	CUB MON	0 ARCADIS US INC-CHEVRON ENVIRO	ED <u>C 04564 POD2</u>	NA	4 3 1 24 23S 28E	589719 3573237 4092
<u>C 04490</u>	CUB MON	0 MOSAIC POTASH CARLSBAD INC	ED <u>C 04490 POD4</u>	NA	4 2 1 24 23S 28E	590205 3573676 4103
<u>C 00306</u>	CUB IRR	210 HAYDEN EDWARD & DEBRA ANN KIMBLEY	ED <u>C 00306</u>		3 3 1 21 23S 28E	584762 3573120* 4109
<u>C 00306 A</u>	CUB IRR	170.062 JACKIE D MCDONALD	ED <u>C 00306</u>		3 3 1 21 23S 28E	584762 3573120* 4109
<u>C 00306 B</u>	CUB IRR	225.6 DEBRA ANN KIMBLEY	ED <u>C 00306</u>		3 3 1 21 23S 28E	584762 3573120* 4109
C 00544 Released to	C DOM Imaging: 1/11/	3 W. J. DAVIS 2024 11:08:19 AM	ED <u>C 00544</u>		Shallow 3 3 1 21 23S 28E	584762 3573120* 4109

Received by	y OCD: 8/1/202 CUB EXP	3 6:41:17 AM 0 T.J. KIMBLEY	ED	<u>C 01341</u>			3 3 1 21	23S 28E	584762	3573120* Page 5	2 of 211
<u>C 01773</u>	CUB IRR	0 A. C. BURKHAM	ED	<u>C 01773</u>			3 3 1 21	23S 28E	584762	3573120*	4109
<u>C 02848</u>	CUB COM	120 HENRY MCDONALD	ED	<u>C 02848</u>		Shallow	3 3 1 21	23S 28E	584762	3573120*	4109
<u>C 00868</u>	CUB IRR	936.42 DRAPER BRANTLEY, JR.	ED	<u>C 00869</u>		Shallow	3 3 4 22	23S 28E	587188	3572335*	4110
<u>C 00868 A</u>	CUB IRR	528.671 JACKIE D MC DONALD	ED	<u>C 00869</u>		Shallow	3 3 4 22	23S 28E	587188	3572335*	4110
<u>C 00868 B</u>	CUB IRR	300 HENRY E. OR JACKIE DALE MCDONALD	ED	<u>C 00869</u>		Shallow	3 3 4 22	23S 28E	587188	3572335*	4110
<u>C 03965</u>	CUB MON	0 ARCADIS US INC-CHEVRON	ED	<u>C 03965 POD4</u>		Shallow	1 4 24	23S 28E	589918	3573381	4110
<u>C 00868</u>	CUB IRR	936.42 DRAPER BRANTLEY, JR.	ED	<u>C 00869 S</u>		Shallow	4 3 4 22	23S 28E	587388	3572335*	4115
<u>C 00868 A</u>	CUB IRR	528.671 JACKIE D MC DONALD	ED	<u>C 00869 S</u>		Shallow	4 3 4 22	23S 28E	587388	3572335*	4115
<u>C 04470</u>	CUB MON	0 MARATHON OIL	ED	C 04470 POD1	NA		3 1 3 07	23S 29E	591280	3576086	4118
<u>C 00868</u>	CUB IRR	936.42 DRAPER BRANTLEY, JR.	ED	<u>C 00869 S2</u>		Shallow	3 3 3 23	23S 28E	587996	3572343*	4182
<u>C 00868 A</u>	CUB IRR	528.671 HENRY E MC DONALD	ED	<u>C 00869 S2</u>		Shallow	3 3 3 23	23S 28E	587996	3572343*	4182
<u>C 00868 B</u>	CUB IRR	300 HENRY E. OR JACKIE DALE MCDONALD	ED	<u>C 00869 S2</u>		Shallow	3 3 3 23	23S 28E	587996	3572343*	4182
<u>C 00500</u>	CUB IRR	200.13 C.A. CARRASCO, JR.	ED	<u>C 00500</u>			4 3 1 24	23S 28E	589811	3573176*	4198
<u>C 00868</u>	CUB IRR	936.42 DRAPER BRANTLEY, JR.	ED	<u>C 00868</u>		Shallow	4 3 1 24	23S 28E	589811	3573176*	4198
<u>C 00868 A</u>	CUB IRR	528.671 HENRY E MC DONALD	ED	<u>C 00868</u>		Shallow	4 3 1 24	23S 28E	589811	3573176*	4198
<u>C 00868 B</u>	CUB IRR	300 HENRY E. OR JACKIE DALE MCDONALD	ED	<u>C 00868</u>		Shallow	4 3 1 24	23S 28E	589811	3573176*	4198
<u>C 04556</u>	CUB MON	0 ARCADIS US INC/CHEVRON ENVIRO	ED	<u>C 04556 POD2</u>	NA	Shallow	4 3 1 24	23S 28E	589890	3573239	4199
<u>C 03974</u>	C DOM	1 JAVIER SIERRA	ED	<u>C 03974 POD1</u>		Shallow	2 2 1 27	23S 28E	587087	3572220	4225
<u>C 03146</u>	C DOL	3 DRAPER BRANTLEY JR	ED	<u>C 03146</u>		Shallow	1 1 3 24	23S 28E	589613	3572970*	4243
<u>C 04539</u>	CUB MON	0 DEVON ENERGY CORPORATION	ED	<u>C 04539 POD1</u>	NA		2 4 2 01	23S 28E	591034	3578223	4247
<u>C 03216</u>	C DOL	0 JUDY PARKER	ED	C 03216 POD1			3 3 1 05	23S 28E	583156	3577913	4280
<u>C 03432</u>	C DOM	1 RAYMOND LUNSFORD	ED	<u>C 03432 POD1</u>		Shallow	1 2 2 27	23S 28E	587527	3572162	4296
<u>C 03436</u>	C DOM	1 JOE L. HERNANDEZ	ED	C 03436 POD1			2 1 2 27	23S 28E	587348	3572143	4304
<u>C 02243</u>	C DOL	3 EDGAR MAGBY	ED	<u>C 02243</u>		Shallow	4 4 4 06	23S 28E	582925	3577148*	4309
<u>C 00641</u>	C DOM	3 SANTOS PARRAZ	ED	<u>C 00641</u>		Shallow	2 2 1 27	23S 28E	586986	3572126*	4323
<u>C 02599</u>	C DOM	0 DS DUNN	ED	<u>C 02599</u>			2 2 1 27	23S 28E	586986	3572126*	4323
<u>C 03175</u>	C DOM	0 RAYMOND LUNSFORD	ED	<u>C 03175</u>			1 2 2 27	23S 28E	587595	3572134*	4331
<u>C 00868</u>	CUB IRR	936.42 DRAPER BRANTLEY, JR.	ED	<u>C 02846 S</u>		Shallow	4 4 4 07	23S 28E	582926	3575527*	4348
<u>C 02846</u>	CUB COM	66.03 BRANTLEY BROTHERS	ED	<u>C 02846 ENL-S</u>		Shallow	4 4 4 07	23S 28E	582926	3575527*	4348
			ED	<u>C 02846 ENLGD S</u>			4 4 4 07	23S 28E	582926	3575527*	4348
			ED	<u>C 02846 S</u>		Shallow	4 4 4 07	23S 28E	582926	3575527*	4348
C 00851 Released to	C DOL Imaging: 1/11	3 CARTER FARMS COMPANY /2024 11:08:19 AM	ED	<u>C 00851</u>		Shallow	3 17	23S 28E	583438	3574217*	4352

Received by	OCD: 8/1/202	23 6:41:17 AM 2233.727 NEW MEXICO INTERSTATE STREAM	ED <u>C 01892</u>			Shallow 2 3 2 20	23S 28E	584151	3573313* Page	53 of 211
<u>C 01891 A</u>	CUB IRR	1183.779 RUSTLER HILLS II LIMITED	ED <u>C 01892</u>		;	Shallow 2 3 2 20	23S 28E	584151	3573313*	4355
<u>C 01892</u>	CUB IRR	PARTNERSHIP 89.097 RUSTLER HILLS II LIMITED	ED <u>C 01892</u>		:	Shallow 2 3 2 20	23S 28E	584151	3573313*	4355
<u>C 01122</u>	CUB IRR	PARTNERSHIP 0 VICTOR QUEEN	ED <u>C 01122</u>		;	Shallow 1 1 1 26	23S 28E	587999	3572138*	4384
<u>C 03455</u>	C DOL	3 GAYNEL CHASE	ED <u>C 03455 POD1</u>		:	Shallow 3 3 1 05	23S 28E	583039	3577899	4385
<u>C 03472</u>	CUB EXP	0 BRANTLEY BROTHERS	ED <u>C 03472 POD1</u>		:	Shallow 4 4 4 07	23S 28E	582893	3575479	4390
<u>C 01766</u>	CUB IRR	375 ROXIE L. WILLIAMS TRUST	ED <u>C 01766</u>			3 3 4 23	23S 28E	588806	3572354*	4403
<u>C 01766 A</u>	CUB IRR	15 WOODROW AND RUBY BURKHAM	ED <u>C 01766</u>			3 3 4 23	23S 28E	588806	3572354*	4403
<u>C 00664</u>	C DOM	3 L.C. BURKHAM	ED <u>C 00664</u>			1 4 3 21	23S 28E	585170	3572513*	4414
<u>C 01448</u>	CUB IRR	0 GOMEZ RAMON	ED <u>C 01448</u>			4 4 06	23S 28E	582826	3577249*	4424
<u>C 02141</u>	C DOL	3 EDGAR MAGBY	ED <u>C 02141</u>		:	Shallow 4 4 06	23S 28E	582826	3577249*	4424
<u>C 00577</u>	C DOM	0 M. L. COPE	ED <u>C 00577</u>		:	Shallow 3 1 3 21	23S 28E	584764	3572714*	4443
<u>C 00578</u>	C DOM	3 CARL H. NICHOLS	ED <u>C 00578</u>		:	Shallow 3 1 3 21	23S 28E	584764	3572714*	4443
<u>C 00643</u>	C DOM	3 J. H. HINTON	ED <u>C 00643</u>		:	Shallow 3 1 3 21	23S 28E	584764	3572714*	4443
<u>C 00706</u>	C DOM	3 M.L. COPE	ED <u>C 00577</u>		:	Shallow 3 1 3 21	23S 28E	584764	3572714*	4443
<u>C 00340</u>	C DOM	3 SERAPIO PARROZ	ED <u>C 00340</u>		:	Shallow 1 1 27	23S 28E	586483	3572022*	4477
<u>C 04490</u>	CUB MON	0 GOLDER ASSOCIATES INC	ED <u>C 04490 POD3</u>	NA	:	Shallow 4 1 2 24	23S 28E	590596	3573502	4511
<u>C 01634</u>	C DOL	3 GRADY O. DODSON	ED <u>C 01634</u>		:	Shallow 2 4 06	23S 28E	582825	3577653*	4516
<u>C 01699</u>	C DOL	3 TOM MCILVAIN	ED <u>C 01699</u>		:	Shallow 2 4 06	23S 28E	582825	3577653*	4516
<u>C 00911</u>	C DOL	3 TOM BRANTLEY	ED <u>C 00911</u>			1 2 4 20	23S 28E	584359	3572911*	4519
			ED <u>C 00911 POD2</u>		:	Shallow 1 2 4 20	23S 28E	584359	3572911*	4519
			ED <u>C 00911 POD3</u>		:	Shallow 1 2 4 20	23S 28E	584359	3572911*	4519
<u>C 03737</u>	C DOL	0 JOHNNY REID	ED <u>C 03737 POD1</u>			2 2 1 26	23S 28E	588519	3572124	4523
<u>C 00036</u>	CUB IRR	0 R T SPENCE	ED <u>C 00036</u>		:	Shallow 3 3 2 32	22S 28E	583916	3579583*	4525
<u>C 00236</u>	C DOM	3 DAVID A. FAULK	ED <u>C 00236</u>		:	Shallow 2 2 3 32	22S 28E	583723	3579372*	4527
<u>C 00289</u>	CUB IRR	291 KELLY MRS P O	ED <u>C 00289</u>		:	Shallow 1 1 1 05	23S 28E	583128	3578563*	4569
<u>C 01891</u>	CUB IRR	2233.727 NEW MEXICO INTERSTATE STREAM	ED <u>C 01891</u>		:	Shallow 1 2 2 18	23S 28E	582728	3575323*	4588
<u>C 01891 A</u>	CUB IRR	1183.779 RUSTLER HILLS II LIMITED PARTNERSHIP	ED <u>C 01891</u>		:	Shallow 1 2 2 18	23S 28E	582728	3575323*	4588
<u>C 04415</u>	CUB MON	0 DEVON ENERGY CORP	ED <u>C 04415 POD9</u>	NA	:	Shallow 4 1 4 04	23S 28E	585713	3572094	4589
<u>C 00214</u>	CUB IRR	0 HAROLD FAULK	ED <u>C 00214</u>			2 3 3 32	22S 28E	583327	3578962*	4599
<u>C 03184</u>	C DOL	3 DAVID FAULK	ED <u>C 03184</u>		;	Shallow 2 3 3 32	22S 28E	583327	3578962*	4599
<u>C 01819</u>	CUB EXP	0 CITY OF CARLSBAD	ED <u>C 01819 M-6</u>			2 2 2 32	22S 28E	584510	3580194*	4600
Released to	C DOM Imaging: 1/11	3 TROY CAVINESS /2024 11:08:19 AM	ED <u>C 00650</u>		:	Shallow 1 3 3 21	23S 28E	584767	3572508*	4616

Received by	OCD: 8/1/20 CUB MON	023 6:41:17 AM 0 ARCADIS US INC/CHEVRON ENVIRO	ED <u>C 04556 POD3</u>	NA	Shallow 4 3 1 24 23S	28E 590567	Page 54 of 211 3573265 4648
<u>C 00035</u>	CUB IRR	0 R T SPENCE	ED <u>C 00035</u>		Shallow 3 3 3 32 22S	28E 583127	3578762* 4665
<u>C 00035 A</u>	CUB IRR	0 POKELLEY	ED <u>C 00035</u>		Shallow 3 3 3 32 22S	28E 583127	3578762* 4665
<u>C 00212</u>	CUB IRR	794.46 HAROLD FAULK	ED <u>C 00212</u>		Shallow 3 3 3 32 22S	28E 583127	3578762* 4665
<u>C 00213</u>	CUB IRR	0 HAROLD FAULK	ED <u>C 00212</u>		Shallow 3 3 3 32 22S	28E 583127	3578762* 4665
<u>C 03131</u>	C PRO	0 NADEL & GUSSMAN OIL	ED <u>C 00212</u>		Shallow 3 3 3 32 22S	28E 583127	3578762* 4665
<u>C 03191</u>	C PRO	0 NADEL & GUSSMAN	ED <u>C 00212</u>		Shallow 3 3 3 32 22S	28E 583127	3578762* 4665
<u>C 03542</u>	CUB MON	0 ALLSUPS CONVENIENCE STORE #220	ED <u>C 03542 POD1</u>		Shallow 2 4 4 20 23S	28E 584615	3572530 4678
			ED <u>C 03542 POD2</u>		Shallow 2 4 4 20 23S	28E 584619	3572497 4703
<u>C 00313</u>	CUB IRR	1239 CARTER FARMS COMPANY	ED <u>C 00313</u>		Shallow 3 3 3 17 23S	28E 583136	3573915* 4767
<u>C 00333 A</u>	CUB IRR	480 HENRY E MCDONALD	ED <u>C 00312 S</u>		Shallow 3 3 3 17 23S	28E 583136	3573915* 4767
<u>C 04408</u>	C DOL	3 BERNICE MOORE	ED <u>C 04408 POD1</u>	22381	1 1 4 24 23S	28E 590445	3572955 4781
<u>C 01891</u>	CUB IRR	2233.727 NEW MEXICO INTERSTATE STREAM	ED <u>C 01892 S</u>		Shallow 4 4 1 20 23S	28E 583746	3573110* 4784
<u>C 01891 A</u>	CUB IRR	1183.779 RUSTLER HILLS II LIMITED PARTNERSHIP	ED <u>C 01892 S</u>		Shallow 4 4 1 20 23S	28E 583746	3573110* 4784
<u>C 01892</u>	CUB IRR	89.097 RUSTLER HILLS II LIMITED PARTNERSHIP	ED <u>C 01892 S</u>		Shallow 4 4 1 20 23S	28E 583746	3573110* 4784
<u>C 00539</u>	C DOM	3 JOHNNIE S. HILL	ED <u>C 00539</u>		Shallow 3 3 3 21 23S	28E 584767	3572308* 4787
<u>C 00348</u>	C DOM	3 CID	ED <u>C 00348</u>		20 23S	28E 583849	3573002* 4788
<u>C 01852</u>	C DOM	0 DORINDA URQUIDEZ	ED <u>C 01852</u>		4 20 23S	28E 584258	3572605* 4823
<u>C 01819</u>	CUB EXP	0 CITY OF CARLSBAD	ED <u>C 01819 M-5</u>		1 3 3 28 22S	28E 584698	3580604* 4841
<u>C 04546</u>	CUB EXP	0 HENRY MCDONALD	ED <u>C 04546 POD1</u>	NA	3 3 3 17 23S	28E 583065	3573857 4858
<u>C 00519</u>	C DOM	0 ELI CANADY	ED <u>C 00519</u>		2 1 1 28 23S	28E 584970	3572100* 4873
<u>C 00212</u>	CUB IRR	794.46 HAROLD FAULK	ED <u>C 00213</u>		Shallow 1 4 1 32 22S	28E 583517	3579775* 4948
<u>C 00213</u>	CUB IRR	0 HAROLD FAULK	ED <u>C 00213</u>		Shallow 1 4 1 32 22S	28E 583517	3579775* 4948
<u>C 03094</u>	C DOL	3 VICKYE FAULK	ED <u>C 03094</u>		Shallow 4 3 1 32 22S	28E 583317	3579567* 4964

Record Count: 281

UTMNAD83 Radius Search (in meters):

Easting (X): 587177 **Northing (Y):** 3576445 **Radius:** 5000

Sorted by: Distance

*UTM location was derived from PLSS - see Help

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

ACTIVE & INACTIVE POINTS OF DIVERSION 3/17/22 7:24 AM

U.S. Fish and Wildlife Service National Wetlands Inventory

Wetland, 3568 feet



March 17, 2022

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

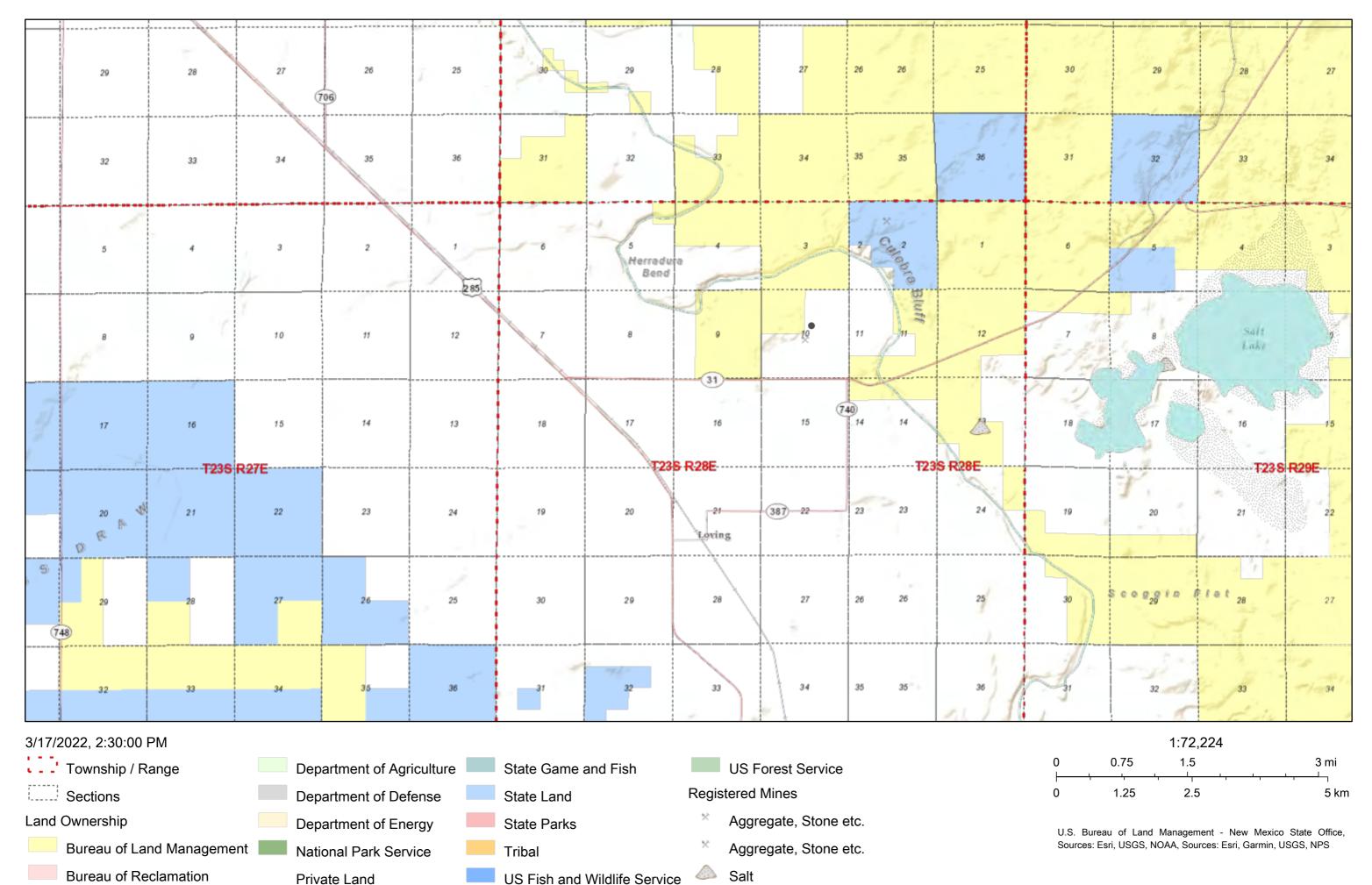
Other

Riverine

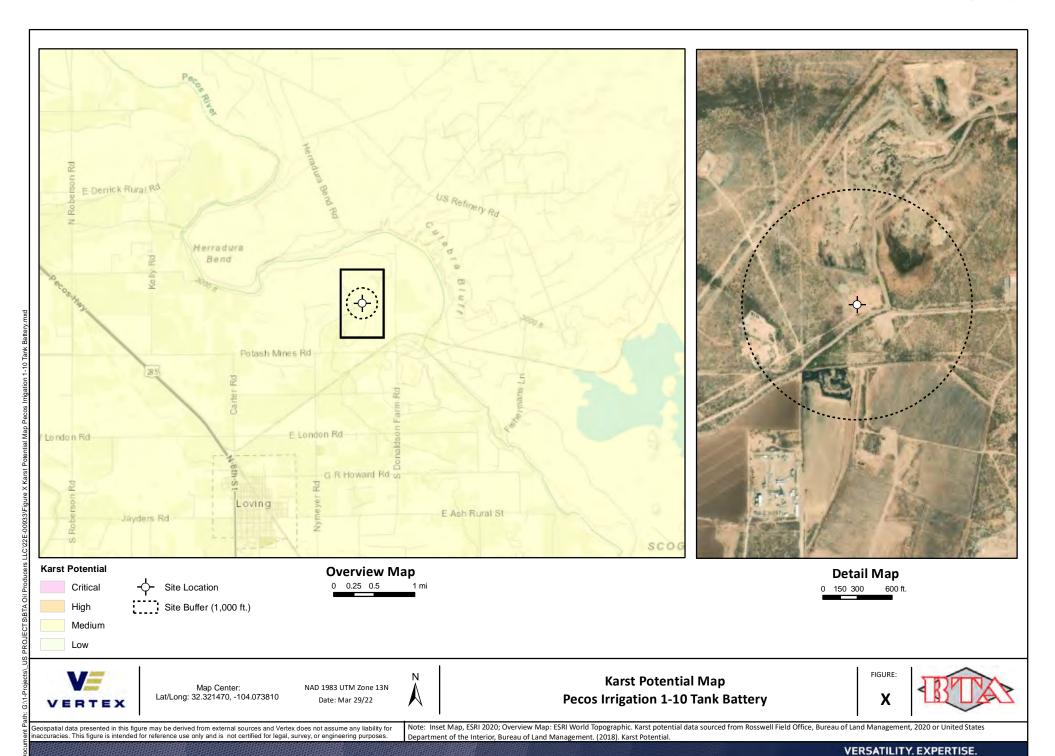
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

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Active Mines in New Mexico



Received by OCD: 8/1/2023 6:41:17 AM



Received by OCD: 8/1/2023 6:41:17 AM National Flood Hazard Layer FIRMette



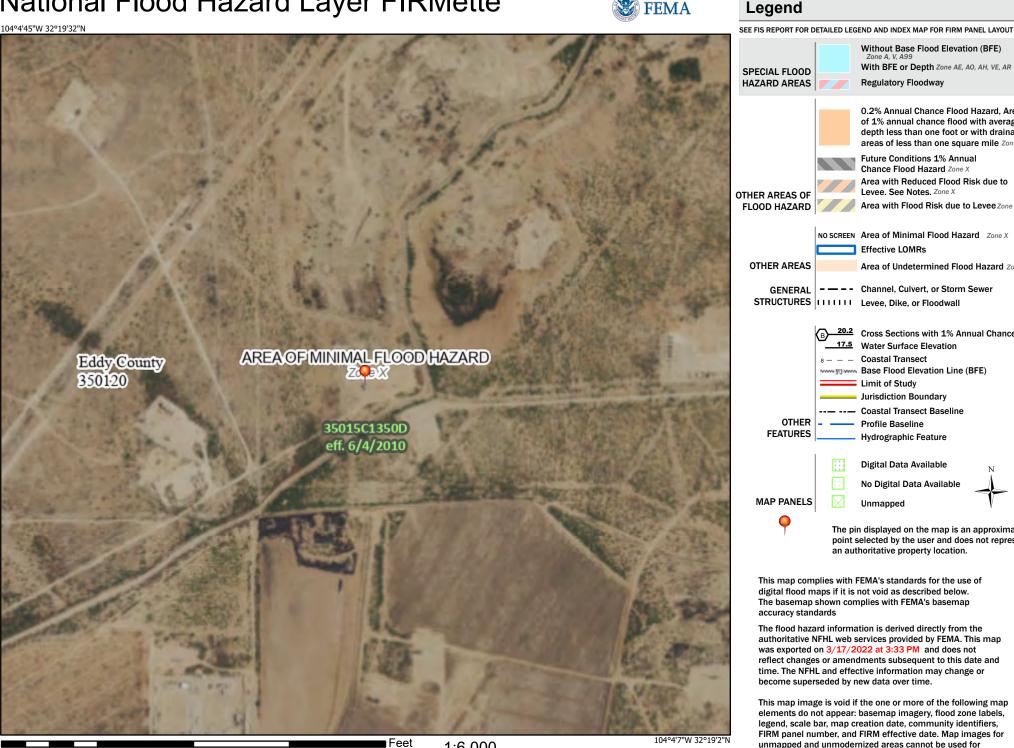


Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF FLOOD HAZARD Area with Flood Risk due to Levee Zone D NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D - - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLIL Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect** Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary **Coastal Transect Baseline** OTHER **Profile Baseline FEATURES** Hydrographic Feature Digital Data Available No Digital Data Available MAP PANELS Unmapped The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location. This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below.

The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/17/2022 at 3:33 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.





VRCS

Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Eddy Area, New Mexico



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2 053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

-

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

(

Blowout

 \boxtimes

Borrow Pit

Ж

Clay Spot

 \Diamond

Closed Depression

×

Gravel Pit

Gravelly Spot

. .

Landfill

Α

Lava Flow

٧.

Marsh or swamp

⊕ M

Mine or Quarry

9

Miscellaneous Water
Perennial Water

0

Rock Outcrop

+

Saline Spot

0.0

Sandy Spot
Severely Eroded Spot

Sinkhole

Ø.

Sodic Spot

Slide or Slip

۵

Spoil Area Stony Spot

00

Very Stony Spot

Ø

Wet Spot Other

Δ

Special Line Features

Water Features

~

Streams and Canals

Transportation

ransp

Rails

~

Interstate Highways

US Routes

 \sim

Major Roads

~

Local Roads

Background

The same

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 17, Sep 12, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 27, 2020—Feb 28, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Uo	Upton gravelly loam, 0 to 9 percent slopes	1.6	100.0%
Totals for Area of Interest		1.6	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An association is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Eddy Area, New Mexico

Uo—Upton gravelly loam, 0 to 9 percent slopes

Map Unit Setting

National map unit symbol: 1w67 Elevation: 1,100 to 4,400 feet

Mean annual precipitation: 7 to 15 inches

Mean annual air temperature: 60 to 70 degrees F

Frost-free period: 200 to 240 days

Farmland classification: Not prime farmland

Map Unit Composition

Upton and similar soils: 96 percent *Minor components:* 4 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Upton

Setting

Landform: Ridges, fans

Landform position (three-dimensional): Side slope, rise

Down-slope shape: Convex Across-slope shape: Convex

Parent material: Residuum weathered from limestone

Typical profile

H1 - 0 to 9 inches: gravelly loam H2 - 9 to 13 inches: gravelly loam H3 - 13 to 21 inches: cemented

H4 - 21 to 60 inches: very gravelly loam

Properties and qualities

Slope: 0 to 9 percent

Depth to restrictive feature: 7 to 20 inches to petrocalcic

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high

(0.01 to 0.60 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 75 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D

Ecological site: R042XC025NM - Shallow

Hydric soil rating: No

Minor Components

Atoka

Percent of map unit: 1 percent Ecological site: R042XC007NM - Loamy Hydric soil rating: No

Upton

Percent of map unit: 1 percent

Ecological site: R042XC025NM - Shallow

Hydric soil rating: No

Atoka

Percent of map unit: 1 percent

Ecological site: R042XC007NM - Loamy

Hydric soil rating: No

Reagan

Percent of map unit: 1 percent

Ecological site: R042XC007NM - Loamy

Hydric soil rating: No

References

American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.

American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.

Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deep-water habitats of the United States. U.S. Fish and Wildlife Service FWS/OBS-79/31.

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.

Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

National Research Council. 1995. Wetlands: Characteristics and boundaries.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2 054262

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service, U.S. Department of Agriculture Handbook 436. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2 053577

Soil Survey Staff. 2010. Keys to soil taxonomy. 11th edition. U.S. Department of Agriculture, Natural Resources Conservation Service. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2 053580

Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.

United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.

United States Department of Agriculture, Natural Resources Conservation Service. National forestry manual. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2 053374

United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelprdb1043084

Custom Soil Resource Report

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242

United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053624

United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052290.pdf



Ecological site R042XC025NM Shallow

Accessed: 03/17/2022

General information



Figure 1. Mapped extent

Areas shown in blue indicate the maximum mapped extent of this ecological site. Other ecological sites likely occur within the highlighted areas. It is also possible for this ecological site to occur outside of highlighted areas if detailed soil survey has not been completed or recently updated.

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

This site occurs on knolls, ridges, hillslopes alluvial fans and escarpments. Slopes range fro 0 to 25 percent and average about 7 percent. Direction of slope varies and is usually not significant. Elevations range from 2,842 to 4,500 feet.

Table 2. Representative physiographic features

Landforms	(1) Hill (2) Ridge (3) Fan piedmont
Flooding frequency	None
Ponding frequency	None
Elevation	2,842–4,500 ft
Slope	0–25%
Aspect	Aspect is not a significant factor

Climatic features

The average annual precipitation ranges from 8 to 13 inches. Variations of 5 inches, more or less, are common. Over 80 percent of the precipitation falls from April through October. Most of the summer precipitation comes in the form of high intensity – short duration thunderstorms.

Temperatures are characterized by distinct seasonal changes and large annual and diurnal temperature changes. The average annual temperature is 61 degrees with extremes of 25 degrees below zero in the winter to 112 degrees in the summer.

The average frost-free season is 180 to 220 days. The last killing frost is late March or early April, and the first killing frost is in late October or early November.

Temperature and rainfall both favor warm season perennial plant growth. In years of abundant spring moisture, annual forbs and cool season grasses can make up an important component of this site. Because of the shallow soil depth, the vegetation on this site can take advantage of moisture almost anytime it falls. Strong winds that blow from the west and southwest blow from January through June, which accelerates soil drying at a critical time for cool season plant growth.

Climate data was obtained from http://www.wrcc.sage.dri.edu/summary/climsmnm.html web site using 50% probability for freeze-free and frost-free seasons using 28.5 degrees F and 32.5 degrees F respectively.

Table 3. Representative climatic features

Frost-free period (average)	220 days
Freeze-free period (average)	240 days
Precipitation total (average)	13 in

Influencing water features

This site is not influenced from water from wetlands or streams.

Soil features

The soils of this site are shallow to very shallow. Soils are derived from mixed calcareous eolian deposits derived from sedimentary rock. Surface layers are very cobbly loam, very gravelly loam, gravelly loam, cobbly loam, gravelly fine sandy loam or gravelly sandy loam.

There is an indurated caliche layer or limestone bedrock that occurs within 20 inches and averages less than 10 inches. Limestone or caliche layer may be the restrictive layer.

Minimum and maximum values listed below represent the characteristic soils for this site.

Characteristic soils:

Lozier

Potter

Tencee

Upton

Ector

Kimbrough

Table 4. Representative soil features

Surface texture	(1) Gravelly loam (2) Extremely gravelly loam (3) Extremely cobbly loam
Family particle size	(1) Loamy
Drainage class	Well drained
Permeability class	Very slow to moderately slow
Soil depth	4–20 in
Surface fragment cover <=3"	15–40%
Available water capacity (0-40in)	1 in
Calcium carbonate equivalent (0-40in)	15–60%
Electrical conductivity (0-40in)	0–2 mmhos/cm
Sodium adsorption ratio (0-40in)	0–1
Soil reaction (1:1 water) (0-40in)	7.4–8.4
Subsurface fragment volume <=3" (Depth not specified)	13–42%
Subsurface fragment volume >3" (Depth not specified)	0–1%

Ecological dynamics

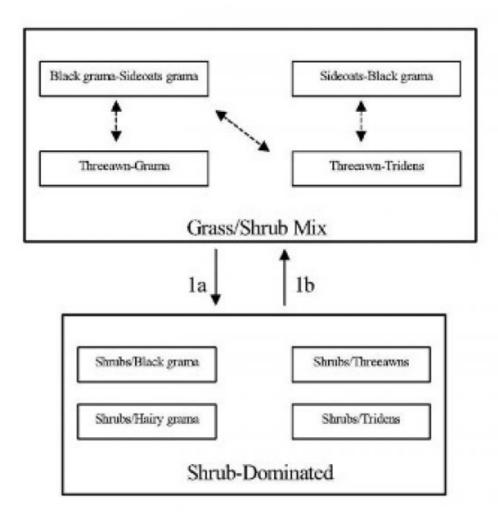
Overview:

The Shallow site is associated with and Limestone Hills, Loamy, and Shallow Sandy sites. When associated with Limestone Hills, the Shallow site occurs on the summits, foot slopes and toeslopes of hills. Loamy sites often occur as areas between low elongated hills with rounded crests (Shallow site). When the Shallow Sandy site and Shallow site occur in association, the Shallow Sandy soils occupy the tops of low ridges and the Shallow site soils occur on the steeper sideslopes of the ridge. The historic plant community of the Shallow site has the aspect of a grassland/shrub mix, dominated by grasses, but with shrubs common throughout the site. Black grama is the dominant grass species; creosotebush, mesquite, and catclaw mimosa are common shrubs. Overgrazing and or extended drought can reduce grass cover, effect a change in grass species dominance, and may result in a shrubdominated state. 1

State and transition model

Plant Communities and Transitional Pathways (diagram)

MLRA-42, SD-3, Shallow



1a. Extended drought, overgrazing, no fire

1b. Brush control, Prescribed grazing

Figure 4.

State 1 Grass/Shrub Mix

Community 1.1 Grass/Shrub Mix

Grassland/Shrub Mix: The historic plant community is dominated by black grama with sideoats grama as the subdominant. Blue grama, hairy grama, bush muhly, and sand dropseed also occur in significant amounts. Sideoats grama can occur as the dominant grass with black grama as sub-dominant on the western side of the Land Resource Unit SD-3. This may be due to higher average elevation on the west side. Retrogression within this state due to extended drought or overgrazing will cause a decrease in species such as black grama, sideoats grama, blue grama, and bush muhly. Threeawns may become the dominant grass species due to a decline in more palatable grasses or because of its ability to quickly recover following drought. Continued loss of grass cover and associated increase in amount of bare ground may result in a shrub-dominated state. Decreased fire frequencies may also be

an important component in the cause of this transition.

Diagnosis: Grass cover is fairly uniform, however, surface gravel, cobble, and bare ground make up a large percent of total ground cover, and grass production during unfavorable years may only average 150-175 pounds per acre. Shrubs are common with canopy cover averaging five to ten percent. Evidence of erosion such as rills and gullies are rare, but may occur on slopes greater than eight percent.

Table 5. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	
Grass/Grasslike	168	352	536
Shrub/Vine	63	131	200
Forb	20	42	64
Total	251	525	800

Table 6. Ground cover

Tree foliar cover	0%
Shrub/vine/liana foliar cover	5-10%
Grass/grasslike foliar cover	10-15%
Forb foliar cover	0%
Non-vascular plants	0%
Biological crusts	0%
Litter	5-8%
Surface fragments >0.25" and <=3"	0%
Surface fragments >3"	0%
Bedrock	0%
Water	0%
Bare ground	40-60%

Figure 6. Plant community growth curve (percent production by month). NM2825, R042XC025NM Shallow HCPC. R042XC025NM Shallow HCPC Warm Season Plant Community.

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0	3	5	10	10	25	30	12	5	0	0

State 2 Shrub-Dominated

Community 2.1 Shrub-Dominated

Shrub-Dominated: This state is characterized by an increase in shrubs and a decrease in grass cover relative to grassland/shrub mix. As grass cover decreases shrubs increase, especially creosotebush, catclaw mimosa, whitethorn acacia, and mesquite. Each of these shrub species may become dominant in localized areas or across the site, depending on the spatial variability in soil characteristics and landscape position. Black grama, threeawns, hairy grama, or hairy tridens may be the dominant grass species. Fluffgrass, burrograss and broom snakeweed increase in representation. The Shallow site is resistant to state change, due to the natural rock armor of the soil and a shallow impermeable layer. The amount of rock fragments on the soil surface assist in retarding erosion. On Shallow sites with low slope, the shallow depth to either a petrocalcic layer or limestone bedrock helps to keep water perched and available to shallow rooted grasses for extended periods. 2

Diagnosis: Shrubs are the dominant species, especially creosotebush, catclaw mimosa, whitethorn acacia, or mesquite. Grass cover is variable ranging from patchy with large connected bare areas present to sparse with only a limited amount in shrub inter-spaces.

Transition to Shrub-Dominated (1a) Overgrazing and or extended periods of drought, and suppression of natural fire regimes are thought to cause this transition. As grass cover is lost, soil fertility and available soil moisture decline, due to the reduction of organic matter and decreased infiltration.3 Shrubs have the ability to extract nutrients and water from a greater area of soil than grasses and are better able to utilize limited water. Competition by shrubs for water and nutrients limits grass recruitment and establishment. Fire historically may have played a part in suppressing shrub expansion; fire suppression may therefore facilitate shrub expansion.

Key indicators of approach to transition:

Transition back to Grassland/Shrub Mix (1b) Brush control is necessary to re-establish grasses. Prescribed grazing will help to ensure proper forage utilization and sustain grass cover. Once the transition is reversed and grass cover is re-established, periodic use of prescribed fire may assist in maintaining the Grassland/Shrub state.

Additional community tables

Table 7. Community 1.1 plant community composition

Group	Common Name	Symbol	Scientific Name	Annual Production (Lb/Acre)	Foliar Cover (%)
Grass	/Grasslike		•	•	•
1				105–158	
	black grama	BOER4	Bouteloua eriopoda	105–158	_
2		•	•	79–105	
	sideoats grama	BOCU	Bouteloua curtipendula	79–105	-
3		-	•	79–105	
	blue grama	BOGR2	Bouteloua gracilis	79–105	-
	hairy grama	BOHI2	Bouteloua hirsuta	79–105	_
4		•	•	26–53	
	bush muhly	MUPO2	Muhlenbergia porteri	26–53	_
5		•	•	16–26	
	cane bluestem	BOBA3	Bothriochloa barbinodis	16–26	_
6				26–53	
	sand dropseed	SPCR	Sporobolus cryptandrus	26–53	_
7				16–26	
	hairy woollygrass	ERPI5	Erioneuron pilosum	16–26	_
8				5–16	
	ear muhly	MUAR	Muhlenbergia arenacea	5–16	-
9				5–16	
	New Mexico feathergrass	HENE5	Hesperostipa neomexicana	5–16	-
10		•	•	5–16	
	low woollygrass	DAPU7	Dasyochloa pulchella	5–16	_
11		•		16–26	
	Grass, perennial	2GP	Grass, perennial	16–26	_

^{*}Decrease or change in composition or distribution of grass cover.

^{*}Increase in size and frequency of bare patches.

^{*}Increase in amount of shrub seedlings.

Forb					
12				11–26	
	stemless four-nerve daisy	TEACE	Tetraneuris acaulis var. epunctata	11–26	_
13				5–16	
	woolly groundsel	PACA15	Packera cana	5–16	_
14				5–16	
	globemallow	SPHAE	Sphaeralcea	5–16	_
15			•	5–16	
	bladderpod	LESQU	Lesquerella	5–16	_
16				5–16	
	cassia	CASSI	Cassia	5–16	_
17		•		11–26	
	Forb (herbaceous, not grass nor grass-like)	2FORB	Forb (herbaceous, not grass nor grass-like)	11–26	_
Shru	b/Vine				
18				5–16	
	littleleaf sumac	RHMI3	Rhus microphylla	5–16	_
19				5–16	
	creosote bush	LATR2	Larrea tridentata	5–16	_
20				5–16	
	littleleaf ratany	KRER	Krameria erecta	5–16	_
21				5–16	
	javelina bush	COER5	Condalia ericoides	5–16	-
22		-	•	5–16	
	American tarwort	FLCE	Flourensia cernua	5–16	-
23		-	•	5–16	
	crown of thorns	KOSP	Koeberlinia spinosa	5–16	-
24				11–26	
	honey mesquite	PRGL2	Prosopis glandulosa	11–26	_
	honey mesquite	PRGL2	Prosopis glandulosa	11–26	_
25		-		5–16	
	catclaw mimosa	MIACB	Mimosa aculeaticarpa var. biuncifera	5–16	-
26				5–16	
	pricklypear	OPUNT	Opuntia	5–16	_
27				11–26	
	mariola	PAIN2	Parthenium incanum	11–26	
	mariola	PAIN2	Parthenium incanum	11–26	
28				5–16	
	broom snakeweed	GUSA2	Gutierrezia sarothrae	5–16	_
29				16–26	
	Shrub (>.5m)	2SHRUB	Shrub (>.5m)	16–26	_

Animal community

This site provides habitats which support a resident animal community that is characterized by desert cottontail, spotted ground squirrel, Merriam's kangaroo rat, cactus mouse, white-throated woodrat, gray fox, spotted skunk, roadrunner, Swainson's hawk, white-necked raven, cactus wren, pyrrhuloxia, lark sparrow, mourning dove, scaled quail, leopard lizard, round-tailed horned lizard, prairie rattlesnake, marbled whiptail, and greater earless lizard. Where associated with limestone hills, mule deer utilize this site.

Where large woody shrubs occur, most resident birds and scissor-tailed flycatcher, morning dove, lark sparrow and Swainson's hawk nest.

Hydrological functions

I broken be also bake an actual attentions

The runoff curve numbers are determined by field investigations using hydraulic cover conditions and hydrologic soil groups.

Recreational uses

This site offers recreation potential for hiking, horseback riding, rock hunting, nature photography and bird hunting and birding. During years of abundant spring moisture, a colorful array of wild flowers is displayed during May and June. A few summer and fall flowers also occur.

Wood products

This site has no potential for wood production.

Other products

This site is suited for grazing by all kinds and classes of livestock during all seasons of the year. Missmanagement will cause a decrease in black grama, sideoats grama, and blue grama, bush muhly and New Mexico feathergrass. A corresponding increase in bare ground will occur. There will also be an increase in muhlys, fluffgrass, creosotebush, javalinabush, catclaw, and mesquite. This site will respond best to a system of management that rotates the season of use.

Other information

Guide to Suggested Initial Stocking Rate Acres per Animal Unit Month Similarity Index------ Ac/AUM 100 - 76------ 3.7 - 4.5 75 - 51------ 4.3 - 5.5 50 - 26------ 5.3 - 10.0 25 - 0------ 10.1 +

Inventory data references

Data collection for this site was done in conjunction with the progressive soil surveys within the Southern Desertic Basins, Plains and Mountains, Major Land Resource Areas of New Mexico (SD-3). This site has been mapped and

correlated with soils in the following soil surveys. Eddy County, Lea County, and Chaves County.

Other references

Literature Cited:

- 1. Humphrey, R.R. 1974. Fire in the deserts and desert grassland of North America. In: Kozlowski, T. T.; Ahlgren, C. E., eds. Fire and ecosystems. New York: Academic Press: 365-400.
- 2. Hennessy, J.T., R.P. Gibbens, J.M. Tromble, and M. Cardenas. 1983. Water properties of caliche. J. Range Manage. 36: 723-726.
- 3. U.S. Department of Agriculture, Natural Resources Conservation Service. 2001. Soil Quality Information Sheets. Rangeland Soil Quality—Infiltration, Organic Matter, Rangeland Sheets 5,6. [Online]. Available: http://www.statlab.iastate.edu/survey/SQI/range.html

Contributors

David Trujillo Don Sylvester

Rangeland health reference sheet

Interpreting Indicators of Rangeland Health is a qualitative assessment protocol used to determine ecosystem condition based on benchmark characteristics described in the Reference Sheet. A suite of 17 (or more) indicators are typically considered in an assessment. The ecological site(s) representative of an assessment location must be known prior to applying the protocol and must be verified based on soils and climate. Current plant community cannot be used to identify the ecological site.

Author(s)/participant(s)	
Contact for lead author	
Date	
Approved by	
Approval date	
Composition (Indicators 10 and 12) based on	Annual Production

Indicators

ш	dicators
1.	Number and extent of rills:
2.	Presence of water flow patterns:
3.	Number and height of erosional pedestals or terracettes:

4. Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground):

5.	Number of gullies and erosion associated with gullies:
6.	Extent of wind scoured, blowouts and/or depositional areas:
7.	Amount of litter movement (describe size and distance expected to travel):
8.	Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values):
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness):
10.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff:
11.	Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site):
12.	Functional/Structural Groups (list in order of descending dominance by above-ground annual-production or live foliar cover using symbols: >>, >, = to indicate much greater than, greater than, and equal to):
	Dominant:
	Sub-dominant:
	Other:
	Additional:
13.	Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence):
14.	Average percent litter cover (%) and depth (in):
15.	Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production):
16	Potential invasive (including noxious) species (native and non-native). List species which BOTH characterize

degraded states and have the potential to become a dominant or co-dominant species on the ecological site if

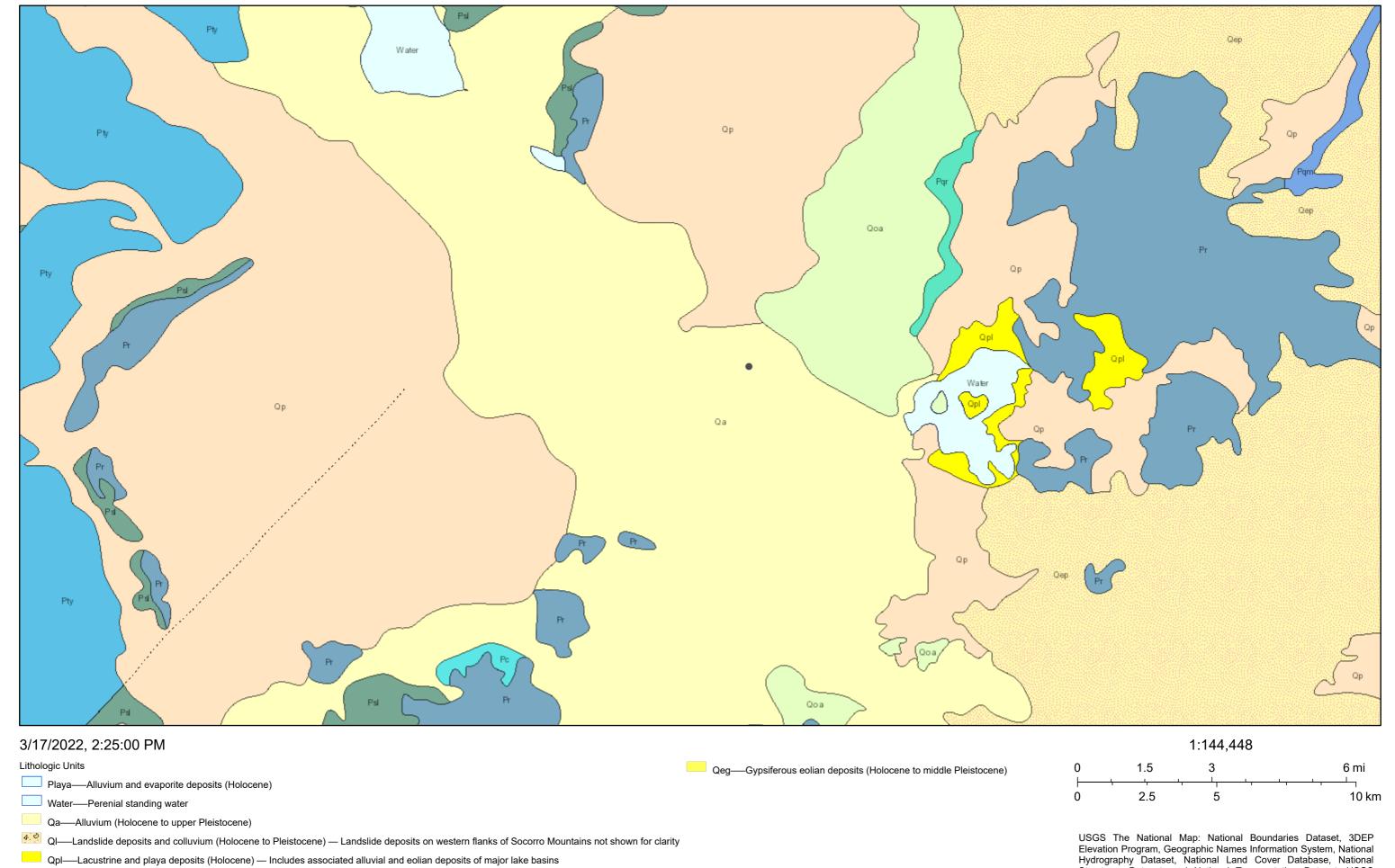
Released to Imaging: 1/11/2024 11:08:19 AM

•

their future establishment and growth is not actively controlled by management interventions. Species that become dominant for only one to several years (e.g., short-term response to drought or wildfire) are not invasive plants. Note that unlike other indicators, we are describing what is NOT expected in the reference state for the ecological site:

17. Perennial plant reproductive capability:

ArcGIS Web Map



Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS

Qp—Piedmont alluvial deposits (Holocene to lower Pleistocene)

Qe—Eolian deposits (Holocene to middle Pleistocene)

APPENDIX C – Final Daily Field Report



Client:	BTA Oil Producers LLC	Inspection Date:	7/20/2023
Site Location Name:	Pecos Irrigation 1-10 Tank Battery	Report Run Date:	7/20/2023 7:50 PM
Client Contact Name:	Bob Hall	API #:	
Client Contact Phone #:	432-312-2203		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of ⁻	Times
Arrived at Site	7/20/2023 6:30 AM		
Departed Site	7/20/2023 2:00 PM		
		Field Not	es

- 11:58 Arrived at location and filled out safety paperwork. Will continue to collect confirmatory samples from the excavated base.
- 12:01 Collected remaining base samples from the excavation. Labeled them as BS23- 15-30 @ 4ft. Field screen samples for chlorides and TPH and placed clean samples into glass jars. Updated sample points on Field Maps and DSS.

Next Steps & Recommendations

1



Site Photos



Overview of excavation



Viewing Direction: Northwest



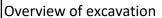
Overview of excavation



Overview of excavation









Overview of excavation





Run on 7/20/2023 7:50 PM UTC Powered by www.krinkleldar.com Page 3 of 4



Daily Site Visit Signature

Inspector: Fernando Rodriguez

Signature: Signature

APPENDIX D – Notification



Dhugal Hanton <vertexresourcegroupusa@gmail.com>

48-Hour Notification - Pecos Irrigation 1-10

2 messages

Dhugal Hanton <vertexresourcegroupusa@gmail.com>
To: "Enviro, OCD, EMNRD" <OCD.Enviro@emnrd.nm.gov>
Co: KBeaird@btaoil.com

Tue, Jul 11, 2023 at 9:06 AM

All,

Please accept this email as notification that Vertex Resource Services has scheduled a sampling event to be conducted at the following release.

nAPP2204056995

On Tuesday, July 18, 2023, at approximately 8:00 a.m., Vertex will be on site to conduct confirmation sampling. The sampling will continue through Friday, July 21, 2023. If you have any questions regarding this notification, please call me at 575-988-1472.

Thank you,

Chance Dixon B.Sc.

Project Manager

Vertex Resource Services Inc. 3101 Boyd Drive, Carlsbad, NM 88220

C 575,988,1472

Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov>

Tue, Jul 11, 2023 at 3:13 PM

To: Dhugal Hanton <vertexresourcegroupusa@gmail.com>
Cc: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>, "Hamlet, Robert, EMNRD"
<Robert.Hamlet@emnrd.nm.gov>

Chance,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JΗ

Jocelyn Harimon • Environmental Specialist

Environmental Bureau

EMNRD - Oil Conservation Division

1220 South St. Francis Drive | Santa Fe, NM 87505

(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov

http://www.emnrd.nm.gov



From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Sent: Tuesday, July 11, 2023 9:07 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: KBeaird@btaoil.com

Subject: [EXTERNAL] 48-Hour Notification - Pecos Irrigation 1-10

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

[Quoted text hidden]

APPENDIX E – Laboratory Data Reports and Chain of Custody Forms



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

April 07, 2022

Dennis Williams Vertex Resources Services, Inc. 3101 Boyd Drive Carlsbad, NM 88220 TEL: (505) 506-0040

FAX:

RE: Pecos Irrigation 1 10 OrderNo.: 2203E18

Dear Dennis Williams:

Hall Environmental Analysis Laboratory received 8 sample(s) on 3/26/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **2203E18**Date Reported: **4/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-01 0'

 Project:
 Pecos Irrigation 1 10
 Collection Date: 3/24/2022 10:00:00 AM

 Lab ID:
 2203E18-001
 Matrix: SOIL
 Received Date: 3/26/2022 1:50:00 PM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	LRN
Chloride	850	60	mg/Kg	20	4/1/2022 2:32:58 PM	66575
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst:	SB
Diesel Range Organics (DRO)	80	9.7	mg/Kg	1	3/30/2022 4:57:06 PM	66475
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/30/2022 4:57:06 PM	66475
Surr: DNOP	107	51.1-141	%Rec	1	3/30/2022 4:57:06 PM	66475
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	BRM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/30/2022 10:43:00 PM	66457
Surr: BFB	107	37.7-212	%Rec	1	3/30/2022 10:43:00 PM	66457
EPA METHOD 8021B: VOLATILES					Analyst:	BRM
Benzene	ND	0.023	mg/Kg	1	3/30/2022 10:43:00 PM	66457
Toluene	ND	0.046	mg/Kg	1	3/30/2022 10:43:00 PM	66457
Ethylbenzene	ND	0.046	mg/Kg	1	3/30/2022 10:43:00 PM	66457
Xylenes, Total	ND	0.091	mg/Kg	1	3/30/2022 10:43:00 PM	66457
Surr: 4-Bromofluorobenzene	81.5	70-130	%Rec	1	3/30/2022 10:43:00 PM	66457

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
 - 8 % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 18

Lab Order **2203E18**Date Reported: **4/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Project: Pecos Irrigation 1 10

Lab ID: 2203E18-002

C II 4' D

Client Sample ID: BH22-02 0'

Collection Date: 3/24/2022 10:10:00 AM

Received Date: 3/26/2022 1:50:00 PM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LRN
Chloride	2400	150	mg/Kg	50	4/4/2022 4:32:32 PM	66575
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	SB
Diesel Range Organics (DRO)	890	9.5	mg/Kg	1	3/30/2022 5:07:56 PM	66475
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/30/2022 5:07:56 PM	66475
Surr: DNOP	93.2	51.1-141	%Rec	1	3/30/2022 5:07:56 PM	66475
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	24	mg/Kg	5	3/30/2022 11:03:00 PM	66457
Surr: BFB	105	37.7-212	%Rec	5	3/30/2022 11:03:00 PM	66457
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.12	mg/Kg	5	3/30/2022 11:03:00 PM	66457
Toluene	ND	0.24	mg/Kg	5	3/30/2022 11:03:00 PM	66457
Ethylbenzene	ND	0.24	mg/Kg	5	3/30/2022 11:03:00 PM	66457
Xylenes, Total	ND	0.47	mg/Kg	5	3/30/2022 11:03:00 PM	66457
Surr: 4-Bromofluorobenzene	83.0	70-130	%Rec	5	3/30/2022 11:03:00 PM	66457

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
 - 8 Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 18

Client Sample ID: BH22-03 0'

Lab Order **2203E18**Date Reported: **4/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Project: Pecos Irrigation 1 10 **Collection Date:** 3/24/2022 10:20:00 AM

Lab ID: 2203E18-003 **Matrix:** SOIL **Received Date:** 3/26/2022 1:50:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	LRN
Chloride	7800	300		mg/Kg	100	4/4/2022 4:44:56 PM	66575
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	JME
Diesel Range Organics (DRO)	2300	96		mg/Kg	10	4/4/2022 4:06:58 PM	66475
Motor Oil Range Organics (MRO)	ND	480	D	mg/Kg	10	4/4/2022 4:06:58 PM	66475
Surr: DNOP	0	51.1-141	S	%Rec	10	4/4/2022 4:06:58 PM	66475
EPA METHOD 8015D: GASOLINE RANGE						Analyst	BRM
Gasoline Range Organics (GRO)	28	23		mg/Kg	5	3/30/2022 11:23:00 PM	66457
Surr: BFB	133	37.7-212		%Rec	5	3/30/2022 11:23:00 PM	66457
EPA METHOD 8021B: VOLATILES						Analyst	BRM
Benzene	ND	0.11		mg/Kg	5	3/30/2022 11:23:00 PM	66457
Toluene	ND	0.23		mg/Kg	5	3/30/2022 11:23:00 PM	66457
Ethylbenzene	ND	0.23		mg/Kg	5	3/30/2022 11:23:00 PM	66457
Xylenes, Total	ND	0.46		mg/Kg	5	3/30/2022 11:23:00 PM	66457
Surr: 4-Bromofluorobenzene	87.7	70-130		%Rec	5	3/30/2022 11:23:00 PM	66457

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
 - E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report Lab Order 2203E18

Date Reported: 4/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Project: Pecos Irrigation 1 10

Lab ID: 2203E18-004

Client Sample ID: BH22-04 0'

Collection Date: 3/24/2022 10:30:00 AM Received Date: 3/26/2022 1:50:00 PM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	LRN
Chloride	5200	300	mg/Kg	100	0 4/4/2022 5:22:09 PM	66575
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst:	ED
Diesel Range Organics (DRO)	38	9.7	mg/Kg	1	3/31/2022 11:51:08 AM	66502
Motor Oil Range Organics (MRO)	66	48	mg/Kg	1	3/31/2022 11:51:08 AM	66502
Surr: DNOP	95.1	51.1-141	%Rec	1	3/31/2022 11:51:08 AM	66502
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/30/2022 11:43:00 PM	66461
Surr: BFB	97.5	37.7-212	%Rec	1	3/30/2022 11:43:00 PM	66461
EPA METHOD 8021B: VOLATILES					Analyst:	BRM
Benzene	ND	0.024	mg/Kg	1	3/30/2022 11:43:00 PM	66461
Toluene	ND	0.048	mg/Kg	1	3/30/2022 11:43:00 PM	66461
Ethylbenzene	ND	0.048	mg/Kg	1	3/30/2022 11:43:00 PM	66461
Xylenes, Total	ND	0.096	mg/Kg	1	3/30/2022 11:43:00 PM	66461
Surr: 4-Bromofluorobenzene	78.7	70-130	%Rec	1	3/30/2022 11:43:00 PM	66461

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order **2203E18**Date Reported: **4/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-05 0'

 Project:
 Pecos Irrigation 1 10
 Collection Date: 3/24/2022 10:40:00 AM

 Lab ID:
 2203E18-005
 Matrix: SOIL
 Received Date: 3/26/2022 1:50:00 PM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LRN
Chloride	8600	300	mg/Kg	100	0 4/4/2022 5:34:34 PM	66575
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst	: ED
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	3/31/2022 1:04:10 PM	66502
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/31/2022 1:04:10 PM	66502
Surr: DNOP	96.4	51.1-141	%Rec	1	3/31/2022 1:04:10 PM	66502
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/31/2022 12:43:00 AM	66461
Surr: BFB	99.3	37.7-212	%Rec	1	3/31/2022 12:43:00 AM	66461
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.024	mg/Kg	1	3/31/2022 12:43:00 AM	66461
Toluene	ND	0.048	mg/Kg	1	3/31/2022 12:43:00 AM	66461
Ethylbenzene	ND	0.048	mg/Kg	1	3/31/2022 12:43:00 AM	66461
Xylenes, Total	ND	0.096	mg/Kg	1	3/31/2022 12:43:00 AM	66461
Surr: 4-Bromofluorobenzene	78.9	70-130	%Rec	1	3/31/2022 12:43:00 AM	66461

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order **2203E18**Date Reported: **4/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BG22-01 0'

 Project:
 Pecos Irrigation 1 10
 Collection Date: 3/24/2022 11:00:00 AM

 Lab ID:
 2203E18-006
 Matrix: SOIL
 Received Date: 3/26/2022 1:50:00 PM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LRN
Chloride	ND	60	mg/Kg	20	4/1/2022 3:34:41 PM	66575
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst	ED
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	3/31/2022 1:28:28 PM	66502
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/31/2022 1:28:28 PM	66502
Surr: DNOP	94.4	51.1-141	%Rec	1	3/31/2022 1:28:28 PM	66502
EPA METHOD 8015D: GASOLINE RANGE					Analyst	BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/31/2022 2:02:00 AM	66461
Surr: BFB	94.0	37.7-212	%Rec	1	3/31/2022 2:02:00 AM	66461
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.024	mg/Kg	1	3/31/2022 2:02:00 AM	66461
Toluene	ND	0.048	mg/Kg	1	3/31/2022 2:02:00 AM	66461
Ethylbenzene	ND	0.048	mg/Kg	1	3/31/2022 2:02:00 AM	66461
Xylenes, Total	ND	0.096	mg/Kg	1	3/31/2022 2:02:00 AM	66461
Surr: 4-Bromofluorobenzene	76.3	70-130	%Rec	1	3/31/2022 2:02:00 AM	66461

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Lab Order **2203E18**Date Reported: **4/7/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. **Client Sample ID:** BG22-01 0.5'

 Project:
 Pecos Irrigation 1 10
 Collection Date: 3/24/2022 11:05:00 AM

 Lab ID:
 2203E18-007
 Matrix: SOIL
 Received Date: 3/26/2022 1:50:00 PM

Analyses	Result	RL	Qual U	nits	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	LRN
Chloride	ND	60	m	ng/Kg	20	4/1/2022 3:47:01 PM	66575
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS					Analyst:	ED
Diesel Range Organics (DRO)	ND	9.9	m	ng/Kg	1	3/31/2022 1:52:48 PM	66502
Motor Oil Range Organics (MRO)	ND	49	m	ng/Kg	1	3/31/2022 1:52:48 PM	66502
Surr: DNOP	86.9	51.1-141	%	6Rec	1	3/31/2022 1:52:48 PM	66502
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	BRM
Gasoline Range Organics (GRO)	ND	4.8	m	ng/Kg	1	3/31/2022 2:22:00 AM	66461
Surr: BFB	97.0	37.7-212	%	6Rec	1	3/31/2022 2:22:00 AM	66461
EPA METHOD 8021B: VOLATILES						Analyst:	BRM
Benzene	ND	0.024	m	ng/Kg	1	3/31/2022 2:22:00 AM	66461
Toluene	ND	0.048	m	ng/Kg	1	3/31/2022 2:22:00 AM	66461
Ethylbenzene	ND	0.048	m	ng/Kg	1	3/31/2022 2:22:00 AM	66461
Xylenes, Total	ND	0.096	m	ng/Kg	1	3/31/2022 2:22:00 AM	66461
Surr: 4-Bromofluorobenzene	81.4	70-130	%	6Rec	1	3/31/2022 2:22:00 AM	66461

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
 - 8 % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
 - E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical ReportLab Order **2203E18**

Date Reported: 4/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-06 0'

 Project:
 Pecos Irrigation 1 10
 Collection Date: 3/24/2022 1:15:00 PM

 Lab ID:
 2203E18-008
 Matrix: SOIL
 Received Date: 3/26/2022 1:50:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	LRN
Chloride	3700	150		mg/Kg	50	4/4/2022 5:46:58 PM	66575
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst:	ED
Diesel Range Organics (DRO)	36000	980		mg/Kg	100	4/2/2022 8:03:00 AM	66502
Motor Oil Range Organics (MRO)	ND	4900	D	mg/Kg	100	4/2/2022 8:03:00 AM	66502
Surr: DNOP	0	51.1-141	S	%Rec	100	4/2/2022 8:03:00 AM	66502
EPA METHOD 8015D: GASOLINE RANGE						Analyst	BRM
Gasoline Range Organics (GRO)	890	24		mg/Kg	5	3/31/2022 2:42:00 AM	66461
Surr: BFB	228	37.7-212	S	%Rec	5	3/31/2022 2:42:00 AM	66461
EPA METHOD 8021B: VOLATILES						Analyst:	BRM
Benzene	0.38	0.12		mg/Kg	5	3/31/2022 2:42:00 AM	66461
Toluene	8.2	0.24		mg/Kg	5	3/31/2022 2:42:00 AM	66461
Ethylbenzene	3.3	0.24		mg/Kg	5	3/31/2022 2:42:00 AM	66461
Xylenes, Total	40	0.48		mg/Kg	5	3/31/2022 2:42:00 AM	66461
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	5	3/31/2022 2:42:00 AM	66461

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
 - E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203E18**

07-Apr-22

Client: Vertex Resources Services, Inc.

Project: Pecos Irrigation 1 10

Sample ID: MB-66575 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 66575 RunNo: 86918

Prep Date: 4/1/2022 Analysis Date: 4/1/2022 SeqNo: 3072574 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-66575 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 66575 RunNo: 86918

Prep Date: 4/1/2022 Analysis Date: 4/1/2022 SeqNo: 3072575 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 92.2 90 110

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

SampType: MBLK

WO#: **2203E18**

07-Apr-22

Client: Vertex Resources Services, Inc.

Project: Pecos Irrigation 1 10

Sample ID: MB-66475

Sample ID: LCS-66475	TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: LCSS Batch ID: 66475				RunNo: 86840						
Prep Date: 3/29/2022	Analysis D	ate: 3/	30/2022	SeqNo: 3067455 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	107	68.9	135			
Surr: DNOP	4.5		5.000		89.8	51.1	141			

TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS	Batch	ID: 66 4	1 75	F	RunNo: 80	6840						
Prep Date: 3/29/2022	Analysis D	ate: 3/3	30/2022	8	SeqNo: 30	067457	Units: mg/K	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	ND	10										
Motor Oil Range Organics (MRO)	ND	50										
Surr: DNOP	9.4		10.00		94.4	51.1	141					

Sample ID: 2203E12-001AMS	SampType: MS			TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BatchQC	Batch ID: 66475			RunNo: 86840							
Prep Date: 3/29/2022	Analysis Date: 3/30/2022			SeqNo: 3068618			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	45	9.7	48.54	8.541	75.5	36.1	154				
Surr: DNOP	3.4		4.854		69.6	51.1	141				

Sample ID: 2203E12-001AMSE	SampType: MSD			TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BatchQC	Batch	ID: 664	475	F	RunNo: 80	6840					
Prep Date: 3/29/2022	Analysis Date: 3/30/2022			SeqNo: 3068619			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	45	9.5	47.57	8.541	76.7	36.1	154	0.405	33.9		
Surr: DNOP	3.4		4.757		71.7	51.1	141	0	0		

Sample ID: LCS-66507	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	F	RunNo: 86887							
Prep Date: 3/30/2022	Analysis Date: 3/31/20	22	SeqNo: 3069715	Units: %Rec					
Analyte	Result PQL SPI	V value SPK Ref Val	%REC LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Surr: DNOP	3.8	5.000	75.1 51.1	141					

Sample ID: MB-66507 SampType: MBLK					TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PB	Client ID: PBS Batch ID: 66507					RunNo: 86887						
Prep Date: 3/30/2022 Analysis Date: 3/31/2022			S	eqNo: 30	69718	Units: %Rec						
Analyte		Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203E18**

07-Apr-22

Client: Vertex Resources Services, Inc.

Project: Pecos Irrigation 1 10

Sample ID: MB-66507 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 66507 RunNo: 86887

Prep Date: 3/30/2022 Analysis Date: 3/31/2022 SeqNo: 3069718 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 8.9 10.00 88.8 51.1 141

Sample ID: 2203F63-001AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: BatchQC Batch ID: 66507 RunNo: 86887

Prep Date: 3/30/2022 Analysis Date: 4/1/2022 SeqNo: 3070122 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 4.1 4.946 82.3 51.1 141

Sample ID: 2203F63-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: BatchQC Batch ID: 66507 RunNo: 86887

Prep Date: 3/30/2022 Analysis Date: 4/1/2022 SeqNo: 3070123 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Surr: DNOP
 4.5
 5.030
 89.1
 51.1
 141
 0
 0

Sample ID: 2203E18-004AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: BH22-04 0' Batch ID: 66502 RunNo: 86904

Prep Date: 3/30/2022 Analysis Date: 3/31/2022 SeqNo: 3070218 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) 85 9.8 49.02 38.15 95.7 36.1 154 Surr: DNOP 4.5 4.902 91.2 51.1 141

Sample ID: 2203E18-004AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: BH22-04 0' Batch ID: 66502 RunNo: 86904

Prep Date: 3/30/2022 Analysis Date: 3/31/2022 SegNo: 3070219 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result **PQL** LowLimit HighLimit Qual Diesel Range Organics (DRO) 83 9.7 48.73 38.15 92.7 36.1 154 2.07 33.9 Surr: DNOP 4.3 4.873 87.2 51.1 141 0 0

Sample ID: LCS-66502 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 66502 RunNo: 86904

Prep Date: 3/30/2022 Analysis Date: 3/31/2022 SeqNo: 3070239 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO) 43 10 50.00 0 86.9 68.9 135

Surr: DNOP 4.3 5.000 66.9 66.9 133

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2203E18 07-Apr-22**

Client: Vertex Resources Services, Inc.

Project: Pecos Irrigation 1 10

Sample ID: MB-66502 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 66502 RunNo: 86904

Prep Date: 3/30/2022 Analysis Date: 3/31/2022 SeqNo: 3070240 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 9.8 10.00 97.8 51.1 141

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

SampType: MBLK

WO#: **2203E18**

07-Apr-22

Client: Vertex Resources Services, Inc.

Project: Pecos Irrigation 1 10

Sample ID: mb-66457

Sample ID: Ics-66457	SampT	ype: LC	S	TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch	ID: 66 4	157	R	RunNo: 80	6864					
Prep Date: 3/29/2022	Analysis D	Analysis Date: 3/30/2022			SeqNo: 3068287			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	29	5.0	25.00	0	114	72.3	137				
Surr: BFB	2300		1000		231	37.7	212			S	

Client ID: PBS	Batch	n ID: 66 4	457	R	RunNo: 80	6864				
Prep Date: 3/29/2022	Analysis D	ate: 3/	30/2022	S	SeqNo: 30	068289	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		106	37.7	212			

TestCode: EPA Method 8015D: Gasoline Range

Sample ID: Ics-66461	S	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch	n ID: 66 4	461	F	RunNo: 80	6864				
Prep Date: 3/29/2022	Analysis D	Date: 3/3	30/2022	S	SeqNo: 30	068290	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	115	72.3	137			
Surr: BFB	2300		1000		229	37.7	212			S

Sample ID: mb-66461	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Range	е	
Client ID: PBS	Batch	n ID: 66 4	461	R	RunNo: 80	6864				
Prep Date: 3/29/2022	Analysis D	ate: 3/	30/2022	S	SeqNo: 30	068291	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		105	37.7	212			

Sample ID: 2203e12-001ams	3	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BatchQC	Batcl	h ID: 66 4	457	F	RunNo: 80	6864				
Prep Date: 3/29/2022	Analysis D	Date: 3/	30/2022	8	SeqNo: 30	068298	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.8	23.95	0	122	70	130			
Surr: BFB	2300		957.9		241	37.7	212			S

Sample ID: 2203e12-001amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range
Client ID: BatchQC	Batch ID: 66457	RunNo: 86864
Prep Date: 3/29/2022	Analysis Date: 3/30/2022	SeqNo: 3068299 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2203E18**

07-Apr-22

Client: Vertex Resources Services, Inc.

Project: Pecos Irrigation 1 10

Sample ID: 2203e12-001amsd	SampT	ype: MS	BD	TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BatchQC	Batch	1D: 66 4	457	R	RunNo: 80	6864					
Prep Date: 3/29/2022	Analysis D	ate: 3/	30/2022	SeqNo: 3068299			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	30	4.8	23.83	0	125	70	130	2.21	20		
Surr: BFB	2400		953.3		250	37.7	212	0	0	S	

Sample ID: 2203e18-004ams	SampT	ype: MS	3	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH22-04 0'	Batch	1D: 66 4	461	R	RunNo: 80	6864				
Prep Date: 3/29/2022	Analysis D	ate: 3/	31/2022	S	SeqNo: 30	068327	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.8	24.04	0	119	70	130			
Surr: BFB	2200		961.5		229	37.7	212			S

Sample ID: 2203e18-004amsd	ype: MS	SD	TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BH22-04 0'	Batch	n ID: 66 4	461	F	RunNo: 80	6864				
Prep Date: 3/29/2022	Analysis D)ate: 3/	31/2022	8	SeqNo: 30	068328	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	32	4.8	24.22	0	133	70	130	12.2	20	S
Surr: BEB	2300		969.0		241	37.7	212	0	0	S

Sample ID: Ics-66482	SampType: L	US	Tes	tCode: EF	'A Method	8015D: Gasoi	ine Range	;	
Client ID: LCSS	Batch ID: 60	6482	F	RunNo: 86	896				
Prep Date: 3/29/2022	Analysis Date: 3	/31/2022	8	SeqNo: 30	69888	Units: %Rec			
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2100	1000		211	37.7	212			

Sample ID: mb-66482	SampT	ype: ME	BLK	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch	ID: 66	482	F	RunNo: 8	6896				
Prep Date: 3/29/2022	Analysis Da	ate: 4/	1/2022	S	SeqNo: 3069889					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		101	37.7	212			

Sample ID: 2203e30-019ams	SampType: MS TestCode: EPA Method 8015D: Gasoline Range									
Client ID: BatchQC	Batch II	D: 664 8	32	F	RunNo: 8	6896				
Prep Date: 3/29/2022	Analysis Dat	e: 4/1 /	/2022	8	SeqNo: 3	069894	Units: %Rec	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2200		977.5		222	37.7	212			S

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2203E18**

07-Apr-22

Client: Vertex Resources Services, Inc.

Project: Pecos Irrigation 1 10

Sample ID: 2203e30-019amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: BatchQC Batch ID: 66482 RunNo: 86896

Prep Date: 3/29/2022 Analysis Date: 4/1/2022 SeqNo: 3069895 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: BFB 2600 990.1 265 37.7 212 0 0 S

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2203E18**

07-Apr-22

Client: Vertex Resources Services, Inc.

Project: Pecos Irrigation 1 10

Sample ID: Ics-66457	Samp	Гуре: LC	S	Tes	tCode: El	PA Method	8021B: Volat	tiles			
Client ID: LCSS	Batc	h ID: 66 4	1 57	F	RunNo: 80	6864					
Prep Date: 3/29/2022	Analysis [Date: 3/ 3	30/2022	SeqNo: 3068372			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.91	0.025	1.000	0	90.6	80	120				
Toluene	0.93	0.050	1.000	0	92.5	80	120				
Ethylbenzene	0.93	0.050	1.000	0	93.0	80	120				
Xylenes, Total	2.8	0.10	3.000	0	92.9	80	120				
Surr: 4-Bromofluorobenzene	0.87		1.000		87.1	70	130				

Sample ID: mb-66457	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volati	les		
Client ID: PBS	Batch	n ID: 66 4	157	R	RunNo: 80	6864				
Prep Date: 3/29/2022	Analysis D	ate: 3/3	30/2022	S	SeqNo: 30	068373	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.85		1.000		84.7	70	130			

Sample ID: Ics-66461	Samp	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batcl	h ID: 66 4	461	F	RunNo: 80	6864				
Prep Date: 3/29/2022	Analysis D	Date: 3/ 3	30/2022	8	SeqNo: 30	068375	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.6	80	120			
Toluene	0.91	0.050	1.000	0	91.4	80	120			
Ethylbenzene	0.92	0.050	1.000	0	92.0	80	120			
Xylenes, Total	2.8	0.10	3.000	0	91.8	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		88.6	70	130			

Sample ID: mb-66461	Samp1	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles			
Client ID: PBS	Batc	h ID: 66	461	F	RunNo: 8	6864					
Prep Date: 3/29/2022	Analysis [Date: 3/	30/2022	5	068376	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	0.87		1 000		87.3	70	130				

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2203E18**

07-Apr-22

Client: Vertex Resources Services, Inc.

Project: Pecos Irrigation 1 10

Sample ID: 2203e12-002ams	SampT	Гуре: МЅ	3	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: BatchQC	Batcl	h ID: 66 4	157	R	RunNo: 80	6864				
Prep Date: 3/29/2022	Analysis D	Date: 3/	30/2022	SeqNo: 3068384			Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.024	0.9756	0	96.2	68.8	120			
Toluene	0.96	0.049	0.9756	0	98.5	73.6	124			
Ethylbenzene	0.97	0.049	0.9756	0	99.8	72.7	129			
Xylenes, Total	2.9	0.098	2.927	0	99.6	75.7	126			
Surr: 4-Bromofluorobenzene	0.84		0.9756		85.9	70	130			

Sample ID: 2203e12-002amsd	SampT	ype: MS	SD .	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: BatchQC	Batch	n ID: 66 4	157	R	RunNo: 80	6864				
Prep Date: 3/29/2022	Analysis D	ate: 3/3	30/2022	SeqNo: 3068386 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.024	0.9718	0	99.6	68.8	120	3.13	20	
Toluene	1.0	0.049	0.9718	0	103	73.6	124	3.75	20	
Ethylbenzene	1.0	0.049	0.9718	0	105	72.7	129	4.35	20	
Xylenes, Total	3.0	0.097	2.915	0	104	75.7	126	4.15	20	
Surr: 4-Bromofluorobenzene	0.83		0.9718		85.2	70	130	0	0	

Sample ID: 2203e18-005ams	SampT	ype: MS	;	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: BH22-05 0'	Batch	n ID: 66 4	161	F	RunNo: 80	6864				
Prep Date: 3/29/2022	Analysis D	ate: 3/3	31/2022	SeqNo: 3068414 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	0.9891	0	89.8	68.8	120			
Toluene	0.91	0.049	0.9891	0	91.7	73.6	124			
Ethylbenzene	0.91	0.049	0.9891	0	92.0	72.7	129			
Xylenes, Total	2.7	0.099	2.967	0	90.7	75.7	126			
Surr: 4-Bromofluorobenzene	0.75		0.9891		75.4	70	130			

Sample ID: 2203e18-005amsd	SampT	ype: MS	SD .	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: BH22-05 0'	Batch	n ID: 66 4	161	R	RunNo: 80	6864				
Prep Date: 3/29/2022	Analysis D	ate: 3/3	31/2022	SeqNo: 3068416 Units: mg/l				g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.024	0.9737	0	89.5	68.8	120	1.96	20	
Toluene	0.90	0.049	0.9737	0	92.1	73.6	124	1.16	20	
Ethylbenzene	0.90	0.049	0.9737	0	92.4	72.7	129	1.08	20	
Xylenes, Total	2.7	0.097	2.921	0	91.4	75.7	126	0.725	20	
Surr: 4-Bromofluorobenzene	0.73		0.9737		75.1	70	130	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2203E18**

07-Apr-22

Client: Vertex Resources Services, Inc.

Project: Pecos Irrigation 1 10

Sample ID: Ics-66482 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 66482 RunNo: 86896

Prep Date: 3/29/2022 Analysis Date: 3/31/2022 SeqNo: 3069936 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: 4-Bromofluorobenzene 0.80 1.000 80.3 70 130

Sample ID: mb-66482 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 66482 RunNo: 86896

Prep Date: 3/29/2022 Analysis Date: 4/1/2022 SeqNo: 3069937 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: 4-Bromofluorobenzene 0.81 1.000 81.4 70 130

Sample ID: 2203e30-020ams SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: BatchQC Batch ID: 66482 RunNo: 86896

Prep Date: 3/29/2022 Analysis Date: 4/1/2022 SeqNo: 3069943 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: 4-Bromofluorobenzene 0.81 0.9862 81.8 70 130

Sample ID: 2203e30-020amsd SampType: MSD TestCode: EPA Method 8021B: Volatiles

Client ID: BatchQC Batch ID: 66482 RunNo: 86896

Prep Date: 3/29/2022 Analysis Date: 4/1/2022 SeqNo: 3069944 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: 4-Bromofluorobenzene 0.78 0.9990 77.9 70 130 0 0

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

Sample Log-In Check List

Vertex Resources Services, Inc.	Work Order Nur	mber: 2203E18		RcptNo:	1
Tracy Casarrubias	3/26/2022 10:00:0	00 AM			
Tracy Casarrubias					
KPG 3/28/					
ody					
stody complete?		Yes 🗸	No 🗆	Not Present	
ample delivered?		Courier			
ot made to cool the sample	s?	Voc 🗸	No 🖂	*** []	
2001 - 200 200 - 000		les 🖭	140	NA L	
es received at a temperatu	re of >0° C to 6.0°C	Yes 🔽	No 🗌	NA 🗌	
roper container(s)?		Yes 🗸	No 🗌		
le volume for indicated tes	t(s)?	Yes 🗸	No 🗔		
cept VOA and ONG) prop	erly preserved?	Yes 🗸			
ve added to bottles?		Yes	No 🔽	NA 🗆	
st 1 vial with headspace <1	/4" for AQ VQA?	Vac 🗍	No. 🗆	NA 🗷	
				NA 🛂	
		, 00	,,,,	# of preserved	
match bottle labels?		Yes 🔽	No 🗌	for pH:	
	of Custody?	Van 🕡	No. [7]		12 unless noted)
	or ouslody!			Adjusted?	7. 7.
times able to be met?		Yes 🔽	No 🗆	Checked by: J	13/28/72
			/		
	n this order?	Yes 🗌	No 🗆	NA 🗸	
otified:	Date	broth a st		1,10,123	
			hone 🗆 Fay	□ In Desses	
ı.	7,42	Civilaii [] [1]	none rax	in Person	
ructions;					
ırks:					
Temp °C Condition	Seal Intact Seal No	Seal Date	Signed By		
5.1 Good Ye	es		-		
	Tracy Casarrubias Tracy Casarrubias Tracy Casarrubias ACC 3 28 28 28 28 28 28 28 28 28 28 28 28 28	Tracy Casarrubias 3/26/2022 10:00:0 Tracy Casarrubias 3/26/2022 1:53:53 Cody Istody complete? Sample delivered? See received at a temperature of >0° C to 6.0°C Troper container(s)? See volume for indicated test(s)? Except VOA and ONG) properly preserved? See added to bottles? Set 1 vial with headspace <1/4" for AQ VOA? See containers received broken? Compare the match bottle labels? Coies on chain of custody) Coies on chain of custody) Coies and containers are requested? Coincipe the met? Coincipe the met indicated to be met? Coincipe the met indicated to be met? Coincipe the met indicated test(s)? Coincipe the me	Services, Inc. Tracy Casarrubias 3/26/2022 10:00:00 AM Tracy Casarrubias 3/26/2022 1:53:53 PM WG S Z S Z Z Sody Interpretation of the samples of the sample delivered? Searple deli	Services, Inc. Tracy Casarrubias 3/26/2022 10:00:00 AM Tracy Casarrubias 3/26/2022 1:53:53 PM	Services, Inc. Tracy Casarrubias 3/26/2022 1:53:53 PM WYG S Z S Z Z Tracy Casarrubias 3/26/2022 1:53:53 PM WYG S Z S Z S Z Z Tracy Casarrubias 3/26/2022 1:53:53 PM WYG S Z S Z S Z Z Tracy Casarrubias 3/26/2022 1:53:53 PM WYG S Z No No Not Present Tracy Casarrubias 3/26/2022 1:53:53 PM WYG S Z No No Not Present Tracy Casarrubias 3/26/2022 1:53:53 PM WYG S Z No No Not Present Tracy Casarrubias 3/26/2022 1:53:53 PM WYG S Z No No Not Present Tracy Casarrubias 3/26/2022 1:53:53 PM WYG S Z No No Not Present Tracy Casarrubias 3/26/2022 1:53:53 PM WYG S Z NO NO NOT NOT Tracy Casarrubias 3/26/2022 1:53:53 PM WYG S Z NO NO NOT NOT Tracy Casarrubias 3/26/2022 1:53:53 PM WYG S Z NO NO NOT NOT Tracy Casarrubias 3/26/2022 1:53:53 PM WYG S Z NO NO NOT NOT Tracy Casarrubias 3/26/2022 1:53:53 PM WYG S Z NO NO NOT NOT Tracy Casarrubias 3/26/2022 1:53:53 PM WYG S Z NO NO NOT Tracy Casarrubias 3/26/2022 1:53:53 PM WYG S Z NO NO NOT Tracy Casarrubias 3/26/2022 1:53:53 PM WYG S Z NO NO NOT Tracy Casarrubias 3/26/2022 1:53:53 PM WYG S Z NO NO NOT Tracy Casarrubias 3/26/2022 1:53:53 PM WYG S Z NO NO NOT Tracy Casarrubias 3/26/2022 1:53:53 PM WYG S Z NO NO NOT Tracy Casarrubias 3/26/2022 1:53:53 PM WYG S Z NO NO NOT Tracy Casarrubias 3/26/2022 1:53:53 PM WYG S Z NO NO NOT Tracy Casarrubias 3/26/2022 1:53:53 PM WYG S Z NO NO NOT Tracy Casarrubias 3/26/2022 1:53:53 PM WYG S Z NO NO NOT Tracy Casarrubias 3/26/2022 1:53:53 PM WYG S Z NO NO NOT Tracy Casarrubias 3/26/2022 1:53:53 PM WYG S Z NO NO NOT Tracy Casarrubias 3/26/2022 1:53:53 PM WYG NO NOT NA Z NOT Tracy Casarrubias 3/26/2022 1:53:53 PM NO NOT NA Z NOT Tracy Casarrubias 3/26/2022 1:53:53 PM NO NOT NA Z NOT Tracy Casarrubias 3/26/2022 1:53:53 PM NO NOT NA Z NOT Tracy Casarrubias 3/26/2022 1:53:53 PM NO NOT NA Z

Page 1 of 1

#### Level 4 (Full Validation) Level 4 (Full Validatio	Clioat	CHAIR OF CHAIRORY INCOULD	5-049							
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Project Manager: Project Man			Project #:		084 -	Hawkii	IS NE	Albuque	erque, NN	187109
Defect Manager: Devel 4 (Full Validation Defect Sampler: CD On Lee: X Yes Devel New Yes Devel	Phone #:		22E-00933		E	505-34	5-3975 A	Fax	505-345-4	107
Devel 4 (Full Validation) Defension	email or Fax#	\	Project Manager:				ξ <u> </u>	4 4	usanbay	
Onter Sampler CD Onter Sampler CD Onter Matrix Sample Name Force Cooler Tope Tope Cooler Tope	QA/QC Packag		Dannis Williams		O MRO			OS ԠO	(InesdA	
Matrix Sample Name	Accreditation:		r. CD		אם /	(r.		10 ⁵ ' F		
Matrix Sample Name Type and # Type Teservative Teservative Teservative Teservative Teservative Teservative Type and # Type Teservative	FDD (Tyne		₩ Yes	lo	90	b09	S	۱ '8		
Matrix Sample Name	1 200		# of Coolers: 2		(GF	po	tal			
Matrix Sample Name Container Preservative HEAL NO.			Mp(including CF): S. 1	\sim	012D	Metho	9M 8			
SO,7 S. Hzz-01 O' 402 JCC OO1 OO3 OO			Preservative Type	HEAL No.	8:Hq.) 8Q	ARD	-		
B HZZ-03 0' 003 B HZZ-03 0' 003 B HZZ-04 0' 003 B BZZ-01 0'S 005 B BZZ-02 0' 005 B BZZ-06 0'S 005 B BZZ-07 0'S 005 B BZZ-08 0'S 005 B BZZ-09 0'S 005 B BZZ-08 0'S 005 B BZZ-09 0'S 005 <	3124 10:00	50,7 BHEZ-01	Ice		L	3	4		-	
SH22-03 0' Oo3 Oo4	10:10	O 20-22H8	-		<u> </u>		>			
SHZZ-04 0'	10:20	\$H22-03		700	-					
BHZZ-05 0' CuS CuS B 4ZZ-01 0.5 CuS CuS B 4ZZ-02 0.7 CuS CuS B 4ZZ-05 0' CuS CuS Cus B 4ZZ-05 0' Cus	10:30	BH22-04		2					-	
	10:40	BH22-05		2,4						
B4zz-06 0	11:00	10-2258		2						
BHZZ-06 0	11:05	8622-01		9					+	
Relinquished by: Received by:	神 /派	BH22-06	3 8	20						
Relinquished by: Received by:										
Relinquished by: Via: Date Time Remarks: CC: Chance Relinquished by: Via: Cair Time Received by: Via: Cair Time Received by: Via: Cair Time Received by: Via: Cair Time Via: Cair Chance Via: Chance Via: Cair Chance Via: Cair Chance Via: Chance V		Dolinaniehod bu:								
Relinquished by: Via: Date		remiquation by.	Via:	Time	-	20.0	hance		100	
	33	Relinquished by:	Via:							

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: TP22-01 0'

 Project:
 Pecos Irrigation 1-10
 Collection Date: 4/11/2022 10:30:00 AM

 Lab ID:
 2204560-001
 Matrix: SOIL
 Received Date: 4/13/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	4/14/2022 10:52:28 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/14/2022 10:52:28 PM
Surr: DNOP	53.5	51.1-141	%Rec	1	4/14/2022 10:52:28 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/15/2022 4:37:13 AM
Surr: BFB	99.4	37.7-212	%Rec	1	4/15/2022 4:37:13 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	4/15/2022 4:37:13 AM
Toluene	ND	0.048	mg/Kg	1	4/15/2022 4:37:13 AM
Ethylbenzene	ND	0.048	mg/Kg	1	4/15/2022 4:37:13 AM
Xylenes, Total	ND	0.097	mg/Kg	1	4/15/2022 4:37:13 AM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	4/15/2022 4:37:13 AM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	59	mg/Kg	20	4/19/2022 7:32:50 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 0

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: TP22-01 2"

 Project:
 Pecos Irrigation 1-10
 Collection Date: 4/11/2022 10:35:00 AM

 Lab ID:
 2204560-002
 Matrix: SOIL
 Received Date: 4/13/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	4/14/2022 11:16:51 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/14/2022 11:16:51 PM
Surr: DNOP	56.2	51.1-141	%Rec	1	4/14/2022 11:16:51 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/14/2022 10:13:00 PM
Surr: BFB	99.7	37.7-212	%Rec	1	4/14/2022 10:13:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	4/14/2022 10:13:00 PM
Toluene	ND	0.049	mg/Kg	1	4/14/2022 10:13:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	4/14/2022 10:13:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	4/14/2022 10:13:00 PM
Surr: 4-Bromofluorobenzene	81.3	70-130	%Rec	1	4/14/2022 10:13:00 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	4/19/2022 8:10:05 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 0

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: TP22-07 0'

 Project:
 Pecos Irrigation 1-10
 Collection Date: 4/11/2022 11:00:00 AM

 Lab ID:
 2204560-003
 Matrix: SOIL
 Received Date: 4/13/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	4/14/2022 11:41:04 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	4/14/2022 11:41:04 PM
Surr: DNOP	64.4	51.1-141	%Rec	1	4/14/2022 11:41:04 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/14/2022 10:33:00 PM
Surr: BFB	98.9	37.7-212	%Rec	1	4/14/2022 10:33:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	4/14/2022 10:33:00 PM
Toluene	ND	0.048	mg/Kg	1	4/14/2022 10:33:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	4/14/2022 10:33:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	4/14/2022 10:33:00 PM
Surr: 4-Bromofluorobenzene	80.5	70-130	%Rec	1	4/14/2022 10:33:00 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	350	60	mg/Kg	20	4/19/2022 8:22:29 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

April 25, 2022

Dennis Williams Vertex Resources Services, Inc. 3101 Boyd Drive Carlsbad, NM 88220 TEL: (505) 506-0040

FAX:

RE: Pecos Irrigation 1 10 OrderNo.: 2204627

Dear Dennis Williams:

Hall Environmental Analysis Laboratory received 6 sample(s) on 4/14/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2204627

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/25/2022

CLIENT: Vertex Resources Services, Inc. Client Sample ID: TP22-02 6'

 Project:
 Pecos Irrigation 1 10
 Collection Date: 4/12/2022 8:00:00 AM

 Lab ID:
 2204627-001
 Matrix: SOIL
 Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	4/18/2022 8:44:53 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/18/2022 8:44:53 PM
Surr: DNOP	84.9	51.1-141	%Rec	1	4/18/2022 8:44:53 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/15/2022 6:14:00 PM
Surr: BFB	92.9	37.7-212	%Rec	1	4/15/2022 6:14:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	4/15/2022 6:14:00 PM
Toluene	ND	0.048	mg/Kg	1	4/15/2022 6:14:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	4/15/2022 6:14:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	4/15/2022 6:14:00 PM
Surr: 4-Bromofluorobenzene	78.9	70-130	%Rec	1	4/15/2022 6:14:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	4/21/2022 2:30:35 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 10

Analytical Report

Lab Order 2204627

Hall Environmental Analysis Laboratory, Inc. Date Reported: 4/25/2022

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: TP22-03 8'

 Project:
 Pecos Irrigation 1 10
 Collection Date: 4/12/2022 8:05:00 AM

 Lab ID:
 2204627-002
 Matrix: SOIL
 Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	4/18/2022 9:08:48 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/18/2022 9:08:48 PM
Surr: DNOP	84.7	51.1-141	%Rec	1	4/18/2022 9:08:48 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/15/2022 6:34:00 PM
Surr: BFB	93.9	37.7-212	%Rec	1	4/15/2022 6:34:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	4/15/2022 6:34:00 PM
Toluene	ND	0.048	mg/Kg	1	4/15/2022 6:34:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	4/15/2022 6:34:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	4/15/2022 6:34:00 PM
Surr: 4-Bromofluorobenzene	78.5	70-130	%Rec	1	4/15/2022 6:34:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	59	mg/Kg	20	4/21/2022 2:43:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Surr: 4-Bromofluorobenzene

EPA METHOD 300.0: ANIONS

Chloride

Analytical Report

Lab Order **2204627**Date Reported: **4/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: TP22-04 6

 Project:
 Pecos Irrigation 1 10
 Collection Date: 4/12/2022 8:10:00 AM

 Lab ID:
 2204627-003
 Matrix: SOIL
 Received Date: 4/14/2022 8:00:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED Diesel Range Organics (DRO) 14 9.3 mg/Kg 1 4/18/2022 9:32:27 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 4/18/2022 9:32:27 PM Surr: DNOP 86.1 51.1-141 %Rec 1 4/18/2022 9:32:27 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 4.7 4/15/2022 6:54:00 PM mg/Kg 1 Surr: BFB 102 37.7-212 %Rec 1 4/15/2022 6:54:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 4/15/2022 6:54:00 PM 0.023 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 4/15/2022 6:54:00 PM Ethylbenzene ND 0.047 mg/Kg 1 4/15/2022 6:54:00 PM Xylenes, Total ND 0.094 mg/Kg 4/15/2022 6:54:00 PM 1

81.4

150

70-130

60

%Rec

mg/Kg

1

20

4/15/2022 6:54:00 PM

4/21/2022 2:55:24 AM

Analyst: JMT

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 4/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: TP22-05 8'

 Project:
 Pecos Irrigation 1 10
 Collection Date: 4/12/2022 1:00:00 PM

 Lab ID:
 2204627-004
 Matrix: SOIL
 Received Date: 4/14/2022 8:00:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: ED Diesel Range Organics (DRO) ND 10 mg/Kg 1 4/18/2022 9:56:05 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 4/18/2022 9:56:05 PM Surr: DNOP 85.9 51.1-141 %Rec 1 4/18/2022 9:56:05 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 4/15/2022 7:13:00 PM 4.6 mg/Kg 1 Surr: BFB 95.8 37.7-212 %Rec 1 4/15/2022 7:13:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 4/15/2022 7:13:00 PM 0.023 mg/Kg 1 Toluene ND 0.046 mg/Kg 1 4/15/2022 7:13:00 PM Ethylbenzene ND 0.046 mg/Kg 1 4/15/2022 7:13:00 PM Xylenes, Total ND 0.093 mg/Kg 4/15/2022 7:13:00 PM 1 Surr: 4-Bromofluorobenzene 79.8 70-130 %Rec 1 4/15/2022 7:13:00 PM **EPA METHOD 300.0: ANIONS** Analyst: CAS Chloride mg/Kg 4/21/2022 2:08:06 AM 410 60 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 10

Analytical Report

Lab Order **2204627**Date Reported: **4/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: TP22-06 10'

 Project:
 Pecos Irrigation 1 10
 Collection Date: 4/12/2022 1:05:00 PM

 Lab ID:
 2204627-005
 Matrix: SOIL
 Received Date: 4/14/2022 8:00:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: ED **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 9.7 mg/Kg 1 4/18/2022 10:19:47 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 4/18/2022 10:19:47 PM Surr: DNOP 87.4 51.1-141 %Rec 1 4/18/2022 10:19:47 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 4/15/2022 7:33:00 PM 4.9 mg/Kg 1 Surr: BFB 97.4 37.7-212 %Rec 1 4/15/2022 7:33:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 0.024 4/15/2022 7:33:00 PM mg/Kg 1 Toluene ND 0.049 mg/Kg 1 4/15/2022 7:33:00 PM Ethylbenzene ND 0.049 mg/Kg 1 4/15/2022 7:33:00 PM Xylenes, Total ND 0.098 mg/Kg 4/15/2022 7:33:00 PM 1 Surr: 4-Bromofluorobenzene 80.3 70-130 %Rec 1 4/15/2022 7:33:00 PM **EPA METHOD 300.0: ANIONS** Analyst: CAS Chloride mg/Kg 4/21/2022 2:20:30 AM 480 60 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order 2204627

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/25/2022

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: TP22-07 8'

 Project:
 Pecos Irrigation 1 10
 Collection Date: 4/12/2022 1:15:00 PM

 Lab ID:
 2204627-006
 Matrix: SOIL
 Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	4/18/2022 10:43:25 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/18/2022 10:43:25 PM
Surr: DNOP	83.1	51.1-141	%Rec	1	4/18/2022 10:43:25 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/15/2022 7:52:00 PM
Surr: BFB	96.8	37.7-212	%Rec	1	4/15/2022 7:52:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	4/15/2022 7:52:00 PM
Toluene	ND	0.047	mg/Kg	1	4/15/2022 7:52:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	4/15/2022 7:52:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	4/15/2022 7:52:00 PM
Surr: 4-Bromofluorobenzene	78.4	70-130	%Rec	1	4/15/2022 7:52:00 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	200	60	mg/Kg	20	4/21/2022 2:32:55 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2204627 25-Apr-22

WO#:

Client: Vertex Resources Services, Inc.

Project: Pecos Irrigation 1 10

Sample ID: MB-66958 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 66958 RunNo: 87394

Prep Date: 4/20/2022 Analysis Date: 4/21/2022 SeqNo: 3091542 Units: mq/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-66958 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 66958 RunNo: 87394

Prep Date: 4/20/2022 Analysis Date: 4/21/2022 SeqNo: 3091543 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.7 90 110

Sample ID: MB-66956 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 66956 RunNo: 87381

Prep Date: 4/20/2022 Analysis Date: 4/20/2022 SeqNo: 3091708 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-66956 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 66956 RunNo: 87381

Prep Date: 4/20/2022 Analysis Date: 4/20/2022 SeqNo: 3091709 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 15 1.5 15.00 0 97.6 90 110

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2204627 25-Apr-22

Client: Vertex Resources Services, Inc.

Project: Pecos Irrigation 1 10

Sample ID: LCS-66872 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 66872 RunNo: 87307 Units: mg/Kg Prep Date: 4/15/2022 Analysis Date: 4/18/2022 SeqNo: 3089092 **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Diesel Range Organics (DRO) 51 10 50.00 0 102 68.9 135

Surr: DNOP 3.8 5.000 76.7 51.1 141

Sample ID: MB-66872 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 66872 RunNo: 87307

Prep Date: 4/15/2022 Analysis Date: 4/18/2022 SeqNo: 3089182 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 7.9 10.00 79.1 51.1 141

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference
- Analyte detected in the associated Method Blank
- Estimated value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2204627 25-Apr-22**

Client: Vertex Resources Services, Inc.

Project: Pecos Irrigation 1 10

Sample ID: Ics-66858 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 66858 RunNo: 87288

Prep Date: 4/14/2022 Analysis Date: 4/15/2022 SeqNo: 3086732 Units: mg/Kg

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result LowLimit Gasoline Range Organics (GRO) 26 5.0 25.00 0 106 72.3 137 Surr: BFB 2100 1000 212 37.7 212 S

Sample ID: mb-66858 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 66858 RunNo: 87288

Prep Date: 4/14/2022 Analysis Date: 4/15/2022 SeqNo: 3086733 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 103 37.7 212

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2204627**

25-Apr-22

Client: Vertex Resources Services, Inc.

Project: Pecos Irrigation 1 10

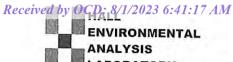
Sample ID: Ics-66858	Samp	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS	Batcl	n ID: 668	358	F	RunNo: 87	7288				
Prep Date: 4/14/2022	Analysis [Date: 4/ 1	15/2022	SeqNo: 3086759			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	84.1	80	120			
Toluene	0.85	0.050	1.000	0	85.2	80	120			
Ethylbenzene	0.85	0.050	1.000	0	84.5	80	120			
Xylenes, Total	2.5	0.10	3.000	0	83.6	80	120			
Surr: 4-Bromofluorobenzene	0.81		1.000		80.9	70	130			

Sample ID: mb-66858	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batcl	h ID: 668	358	F	RunNo: 87	7288				
Prep Date: 4/14/2022	Analysis [Date: 4/	15/2022	SeqNo: 3086760			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.80		1.000		79.9	70	130			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

Sample Log-In Check List

LABORATORY
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Client Name:	Vertex Re Services,		Wor	k Order Nu	mber: 220)4627			RcptNo: 1
Received By:	Sean Liv	vingston	4/14/2	022 8:00:00) AM		5	_/	make
Completed By	Sean Liv	ingston	4/14/2	022 8:46:37	7 AM				isot-
Reviewed By:	K09	4/14/	22).		Note.
Chain of Cu	istody								
1. Is Chain of		plete?			Yes	V	No		Not Present
2. How was th	e sample deli	vered?				ırier			Not violating
Log In									
3. Was an atte	empt made to	cool the samp	oles?		Yes	V	No		NA 🗆
4. Were all san	mples receive	d at a tempera	ature of >0° C	to 6.0°C	Yes	V	No		NA 🗆
5. Sample(s) ir	n proper conta	ainer(s)?			Yes	V	No		
6. Sufficient sa	mple volume	for indicated t	est(s)?		Yes	V	No	П	
7. Are samples			The second second	ed?	Yes	V	No		
8. Was preserv					Yes		No		NA 🗆
9. Received at	least 1 vial wi	th headspace	<1/4" for AO \	/OA?	Yes	П	No		NA 🗹
10. Were any sa					Yes			V	NA 🖭
	Chie Service				103		140		# of preserved
11. Does paperw (Note discrep		ottle labels? ain of custody)		Yes	V	No		bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices	correctly iden	ntified on Chai	n of Custody?		Yes	~	No		Adjusted?
13. Is it clear wha			?		Yes	V	No		1.1.
14. Were all hold (If no, notify o		e to be met? authorization.)			Yes	V	No		Checked by: 114/22
Special Hand	lling (if api	olicable)							
15. Was client n			with this order	?	Yes		No		NA 🔽
Person	Notified:			Date				_	
By Wh	om:			Via:	☐ eMa	ail 🗆	Phone [Fax	In Person
Regard	ding:								
Client I	Instructions:								
16. Additional re	emarks:								
17. Cooler Info	rmation								
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal D	ate	Signed I	Зу	1
1 2	0.8	Good Good						-	
		2000							

t t	T		,			F		N	HALL ENVIRONMENT	MENTAL
/ertex	Standard	d Rush			Л	A	ANALYSIS	SIS		LABORATOR
	rioject Name.					WWW	haller	viron	www hallenvironmental com	
Mailing Address: <i>On F</i> デバ と	Pecos	s zrrigation	tion 1-10	46	4901 Hawkins NE	vkins N	1	elibild	Albuquerane NM 87109	109
/	Project #:			F	Tel 505.	505-345-3075		Enve	OE 24E 440	2
	225-00	00933		è	900	0	Ana	Analysis R	Reginest	
	Project Manager:	ager:				1.	V((1	
☐ Level 4 (Full Validation)		10	Williams	s (8021)	oCB,8	SWIS	OS ԠOc		/Absent	
	Sampler:	Q			_		1,0		aeuţ	
□ Other	On Ice:	□ Yes	□ No							
	# of Coolers:								1	
	Cooler Temp(including CF);	O(including CF): U	(3) プラロコロテ &					(AC		
Matrix Sample Name	Container Type and #	Preservative Type	HEAL No.	(ХЭТ <u>я</u> гов:нчт	eg 1808	BDB (Me Yd sHAc	3CRA 8 1, F, Br	OV) 0928	S) 07.28	
5017 TPZZ-02 6'	20%	ICC		-			,	3		
, TP22-03 8'	-		200		÷					
TP22-64 6'			0.28				-			
TP22-05 8'			700							
TP22-06 10'			\$00							
TP22-07 8		-	We							
						ĪĿ.	1			
							-			
Relinquished by:	Received by:		W/3/12, 1320	Remarks:	300	10%	Chance	۵	Dixon	
Relinquished by:	} š	Via:	J							



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

April 28, 2022

Chance Dixon
Vertex Resources Services, Inc.
3101 Boyd Drive
Carlsbad, NM 88220
TEL: (505) 506-0040

FAX:

RE: Pecos Irrigation 1 10 OrderNo.: 2204841

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 6 sample(s) on 4/20/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 4/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: TP22-05 10'

 Project:
 Pecos Irrigation 1 10
 Collection Date: 4/18/2022 9:00:00 AM

 Lab ID:
 2204841-001
 Matrix: SOIL
 Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	4/25/2022 8:31:18 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/25/2022 8:31:18 AM
Surr: DNOP	93.7	51.1-141	%Rec	1	4/25/2022 8:31:18 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/21/2022 10:25:00 PM
Surr: BFB	102	37.7-212	%Rec	1	4/21/2022 10:25:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	4/21/2022 10:25:00 PM
Toluene	ND	0.048	mg/Kg	1	4/21/2022 10:25:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	4/21/2022 10:25:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	4/21/2022 10:25:00 PM
Surr: 4-Bromofluorobenzene	85.4	70-130	%Rec	1	4/21/2022 10:25:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	160	60	mg/Kg	20	4/22/2022 1:06:27 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 9

Date Reported: 4/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: TP22-08 0'

 Project:
 Pecos Irrigation 1 10
 Collection Date: 4/18/2022 9:05:00 AM

 Lab ID:
 2204841-002
 Matrix: SOIL
 Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	4/25/2022 8:55:12 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/25/2022 8:55:12 AM
Surr: DNOP	91.6	51.1-141	%Rec	1	4/25/2022 8:55:12 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	4/22/2022 12:04:00 AM
Surr: BFB	103	37.7-212	%Rec	1	4/22/2022 12:04:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.023	mg/Kg	1	4/22/2022 12:04:00 AM
Toluene	ND	0.046	mg/Kg	1	4/22/2022 12:04:00 AM
Ethylbenzene	ND	0.046	mg/Kg	1	4/22/2022 12:04:00 AM
Xylenes, Total	ND	0.092	mg/Kg	1	4/22/2022 12:04:00 AM
Surr: 4-Bromofluorobenzene	85.5	70-130	%Rec	1	4/22/2022 12:04:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	270	60	mg/Kg	20	4/22/2022 1:18:48 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 9

Date Reported: 4/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: TP22-08 3'

 Project:
 Pecos Irrigation 1 10
 Collection Date: 4/18/2022 9:10:00 AM

 Lab ID:
 2204841-003
 Matrix: SOIL
 Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	8.7	mg/Kg	1	4/25/2022 9:18:50 AM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	4/25/2022 9:18:50 AM
Surr: DNOP	92.1	51.1-141	%Rec	1	4/25/2022 9:18:50 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/22/2022 12:24:00 AM
Surr: BFB	105	37.7-212	%Rec	1	4/22/2022 12:24:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	4/22/2022 12:24:00 AM
Toluene	ND	0.048	mg/Kg	1	4/22/2022 12:24:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	4/22/2022 12:24:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	4/22/2022 12:24:00 AM
Surr: 4-Bromofluorobenzene	85.4	70-130	%Rec	1	4/22/2022 12:24:00 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	240	60	mg/Kg	20	4/23/2022 1:40:46 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 4/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: TP22-09 0

 Project:
 Pecos Irrigation 1 10
 Collection Date: 4/18/2022 9:15:00 AM

 Lab ID:
 2204841-004
 Matrix: SOIL
 Received Date: 4/20/2022 7:40:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 21000 480 mg/Kg 50 4/25/2022 9:42:39 AM Motor Oil Range Organics (MRO) ND 2400 D mg/Kg 50 4/25/2022 9:42:39 AM 51.1-141 Surr: DNOP 0 %Rec 50 4/25/2022 9:42:39 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) 440 4/22/2022 12:43:00 AM 96 mg/Kg 20 Surr: BFB 126 37.7-212 %Rec 20 4/22/2022 12:43:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 4/22/2022 12:43:00 AM 0.48 D mg/Kg 20 Toluene ND 0.96 D mg/Kg 20 4/22/2022 12:43:00 AM Ethylbenzene ND 0.96 D mg/Kg 20 4/22/2022 12:43:00 AM Xylenes, Total D 20 4/22/2022 12:43:00 AM 3.9 1.9 mg/Kg Surr: 4-Bromofluorobenzene 106 70-130 %Rec 20 4/22/2022 12:43:00 AM **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride mg/Kg 4/23/2022 2:18:01 AM 900 60 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 4/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: TP22-10 0'

 Project:
 Pecos Irrigation 1 10
 Collection Date: 4/18/2022 2:00:00 PM

 Lab ID:
 2204841-005
 Matrix: SOIL
 Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	4/25/2022 11:17:13 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	4/25/2022 11:17:13 AM
Surr: DNOP	70.8	51.1-141	%Rec	1	4/25/2022 11:17:13 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/22/2022 1:03:00 AM
Surr: BFB	110	37.7-212	%Rec	1	4/22/2022 1:03:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	4/22/2022 1:03:00 AM
Toluene	ND	0.047	mg/Kg	1	4/22/2022 1:03:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	4/22/2022 1:03:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	4/22/2022 1:03:00 AM
Surr: 4-Bromofluorobenzene	87.4	70-130	%Rec	1	4/22/2022 1:03:00 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	150	61	mg/Kg	20	4/23/2022 2:30:27 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 4/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: TP22-10 2'

 Project:
 Pecos Irrigation 1 10
 Collection Date: 4/18/2022 2:05:00 PM

 Lab ID:
 2204841-006
 Matrix: SOIL
 Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	4/25/2022 11:40:49 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	4/25/2022 11:40:49 AM
Surr: DNOP	72.3	51.1-141	%Rec	1	4/25/2022 11:40:49 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/22/2022 1:23:00 AM
Surr: BFB	107	37.7-212	%Rec	1	4/22/2022 1:23:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	4/22/2022 1:23:00 AM
Toluene	ND	0.048	mg/Kg	1	4/22/2022 1:23:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	4/22/2022 1:23:00 AM
Xylenes, Total	ND	0.096	mg/Kg	1	4/22/2022 1:23:00 AM
Surr: 4-Bromofluorobenzene	87.6	70-130	%Rec	1	4/22/2022 1:23:00 AM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	150	60	mg/Kg	20	4/23/2022 2:42:52 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2204841

Qual

28-Apr-22

Client: Vertex Resources Services, Inc.

Project: Pecos Irrigation 1 10

Sample ID: MB-67001 SampType: mblk TestCode: EPA Method 300.0: Anions

PBS Client ID: Batch ID: 67001 RunNo: 87438

Prep Date: 4/21/2022 Analysis Date: 4/21/2022 SeqNo: 3093533 Units: mq/Kq

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result **PQL** LowLimit HighLimit Qual

Chloride ND 1.5

Sample ID: LCS-67001 SampType: Ics TestCode: EPA Method 300.0: Anions Client ID: LCSS Batch ID: 67001 RunNo: 87438 Prep Date: 4/21/2022 Analysis Date: 4/21/2022 SeqNo: 3093534 Units: mg/Kg %RPD **RPDLimit**

%REC Analyte Result **PQL** SPK value SPK Ref Val LowLimit HighLimit Chloride 14 1.5 15.00 92.3 110

Sample ID: MB-67027 TestCode: EPA Method 300.0: Anions SampType: mblk Client ID: **PBS** Batch ID: 67027 RunNo: 87446 Prep Date: Analysis Date: 4/22/2022 SeqNo: 3094513 Units: mg/Kg 4/22/2022 Analyte Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual LowLimit

Chloride

Sample ID: LCS-67027 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 67027 RunNo: 87446

Prep Date: Analysis Date: 4/23/2022 SeqNo: 3094514 4/22/2022 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte LowLimit

Chloride 14 1.5 15.00 n 94.5 90 110

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference
- Analyte detected in the associated Method Blank
- Estimated value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2204841

28-Apr-22

Client: Vertex Resources Services, Inc.

Project: Pecos Irrigation 1 10

Sample ID: Ics-66961 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 66961 RunNo: 87430 Units: mg/Kg Prep Date: 4/20/2022 Analysis Date: 4/21/2022 SeqNo: 3093143 **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result LowLimit Gasoline Range Organics (GRO) 27 5.0 25.00 0 109 72.3 137 Surr: BFB 2200 1000 222 37.7 212 S

Sample ID: mb-66961 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 66961 RunNo: 87430 Prep Date: Analysis Date: 4/21/2022 SeqNo: 3093144 4/20/2022 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) ND 5.0

Surr: BFB

1000

1000

102

37.7

212

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

Estimated value

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 8 of 9

2204841

28-Apr-22

WO#:

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

Client: Vertex Resources Services, Inc.

Project: Pecos Irrigation 1 10

Sample ID: Ics-66961	Гуре: LC :	CS TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batcl	h ID: 669	961	F	RunNo: 87					
Prep Date: 4/20/2022	Analysis [Date: 4/2	21/2022	9	SeqNo: 30	093183	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit		HighLimit %RPD		RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	82.7	80	120			
Toluene	0.85	0.050	1.000	0	84.6	80	120			
Ethylbenzene	0.86	0.050	1.000	0	85.9	80	120			
Xylenes, Total	2.6	0.10	3.000	0	86.4	80	120			
Surr: 4-Bromofluorobenzene	0.88		1.000		88.0	70	130			

Sample ID: mb-66961	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batcl	n ID: 669	961	F	RunNo: 87	7430				
Prep Date: 4/20/2022	Analysis D	Date: 4/2	21/2022	5	SeqNo: 30	093184	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.83		1.000		83.4	70	130			

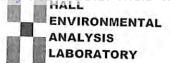
Sample ID: 2204841-001ams	Samp	Гуре: М S	3	TestCode: EPA Method 8021B: Volatiles									
Client ID: TP22-05 10'	Batcl	h ID: 669	961	F	RunNo: 87								
Prep Date: 4/20/2022	Analysis [Date: 4/2	21/2022	9	SeqNo: 30	093195	Units: mg/K	g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit %RPD		RPDLimit	Qual			
Benzene	0.84	0.024	0.9709	0	87.0	68.8	120						
Toluene	0.87	0.049	0.9709	0	89.7	73.6	124						
Ethylbenzene	0.88	0.049	0.9709	0	90.7	72.7	129						
Xylenes, Total	2.7 0.097 2.913		2.913	0	91.0	75.7	126						
Surr: 4-Bromofluorobenzene	0.84		0.9709		87.0	70	130						

Sample ID: 2204841-001amsd	SampT	ype: MS	D	TestCode: EPA Method 8021B: Volatiles									
Client ID: TP22-05 10'	Batch	n ID: 669	61	F	RunNo: 87								
Prep Date: 4/20/2022	Analysis D	Date: 4/2	21/2022	5	SeqNo: 30	93196	Units: mg/K	g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	0.75	0.024	0.9690	0	77.3	68.8	120	12.0	20				
Toluene	0.77	0.048	0.9690	0	79.5	73.6	124	12.2	20				
Ethylbenzene	0.78	0.048	0.9690	0	80.5	72.7	129	12.1	20				
Xylenes, Total	2.3	0.097	2.907	0	80.4	75.7	126	12.6	20				
Surr: 4-Bromofluorobenzene	0.83		0.9690		85.9	70	130	0	0				

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference
- Analyte detected in the associated Method Blank
- Estimated value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

Page 9 of 9



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	Vertex Re Services,	esources Inc.	W	ork Order N	umber: 2204	1841		Rcp	otNo: 1
Received By:	Tracy Ca	asarrubias	4/20/	2022 7:40:0	00 AM				
Completed By:	Tracy Ca	asarrubias		2022 8:10:3			*		
Reviewed By:	DAD	4/20/-			1.770				
Chain of Cus	stody								
1. Is Chain of C	ustody com	plete?			Yes	V	No 🗆	Not Present	
2. How was the	sample deli	ivered?			Cour	ier		11 12 0 30 31G	-
Log In									
3. Was an atten	npt made to	cool the sar	nples?		Yes	V	No 🗌	NA [
4. Were all samp	oles receive	d at a tempe	rature of >0°	C to 6.0°C	Yes	V	No 🗌	NA [ĺ
5. Sample(s) in	proper conta	ainer(s)?			Yes	~	No 🗌		
6. Sufficient sam	ple volume	for indicated	test(s)?		Yes		No 🗆		
7, Are samples (ved?	Yes [No 🗆		
8. Was preservat					Yes []	No 🗹	NA 🗆	1
9. Received at lea	ast 1 vial wit	th headsnac	e <1/4" for AO	V042	T				
10. Were any sam				VOA?	, 55		No 🗌	NA 🗸	
	,		DIONETT		Yes		No 🔽	# of preserved	
11. Does paperwo (Note discrepa	rk match bot	ttle labels?	lv)		Yes S		No 🗆	bottles checked for pH:	
12. Are matrices co				,	Yes 💽		No 🗆	Adjusted?	or >12 unless noted)
13. Is it clear what					Yes V		No 🗆		
14. Were all holdin (If no, notify cu	g times able stomer for a	to be met? uthorization.)		Yes 🔽		No 🗆	Checked by	m 4/20/21
Special Handli	ng (if app	licable)					,		
15. Was client noti			with this order	?	Yes]	No 🗌	NA 🗸	
Person N	lotified:			Date				144.65	
By Whon	n:			Via:	eMail		Phone Fax		
Regardin	g: j			.,,,,,,	cividii		Phone Fax	☐ In Person	
Client Ins	structions:					_			
16. Additional rem	arks:								
17. Cooler Inform	ation								
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date		Signed By		
400	5.3	Good	Yes				Jighou Dy		
2	3.4	Good	Yes						

	e ved by	Daje: Time:		De: Time:	023 6	:41:	17 A	M	5.05	23.00	9:15	9:10	9:05	4/18 9:00	Date Time	- LDD (Type)	מונים ליים	Accreditation:	QA/QC Package	email or Fax#:	Phone #:	Mailing Address:	Page	144 lent:	of 2 Chai
iry, samples s	a	Relinquished by:		Relinguished by:				F	<u>ч</u>	0	5	G	S	0 5011	Matrix		- Onei		ge: /	#		ess:		Ertex	n-of-(
If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report	aury)	shed by:		shed hv:					TP22-10 2	TP22-10 0'	TP22-09 0'	TP22-08 3'	TP22-08 0	1) TPZZ-05 10	Sample Name			Az Compliance	☐ Level 4 (Full Validation)		1	FILL			Chain-of-Custody Record
bcontracted to other a	<u>.</u>	Received by:	MALL I	D Cooking to the cook					-					204	Container Type and #	# of Coolers:	On Ice:	Sampler: C		Project Manager:	22 ·	Pecas	Project Name:	☑ Standard	Turn-Around
ccredited laboratorie	1/2	Via: Par	- 4	Vie										TCC.	3.3 Preservative Type	# of Coolers: 2	M Yes	0	8	ager:	E-00933	s trriggtion		d ∭ Rush	Turn-Around Time: モーンタリ
This convoc as notice of	4120/22 7:46	Date Time	4/10/22 Res						006	005	MA	003	200	00)	101 = 3.4 HEAL NO. 2204841	to 1 : 52 10	□ No		Dixon			t100 1-10		,	200
			Rem										1	1	BTEX) N	P ATBE	/	TME	3's (802°	1)				 	_
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															8270 (Ser	ni-V	DA))			505- Req	ierqu	men.		
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

May 02, 2022

Chad Dixon

Vertex Resources Services, Inc. 3101 Boyd Drive Carlsbad, NM 88220

TEL: (505) 506-0040

FAX

RE: Pecos Irrigation 1 10 OrderNo.: 2204931

Dear Chad Dixon:

Hall Environmental Analysis Laboratory received 10 sample(s) on 4/21/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 5/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: TP22-11 0'

 Project:
 Pecos Irrigation 1 10
 Collection Date: 4/19/2022 8:00:00 AM

 Lab ID:
 2204931-001
 Matrix: SOIL
 Received Date: 4/21/2022 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	4/26/2022 10:05:55 AM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	4/26/2022 10:05:55 AM
Surr: DNOP	87.8	51.1-141	%Rec	1	4/26/2022 10:05:55 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/23/2022 1:51:00 PM
Surr: BFB	108	37.7-212	%Rec	1	4/23/2022 1:51:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.023	mg/Kg	1	4/23/2022 1:51:00 PM
Toluene	ND	0.047	mg/Kg	1	4/23/2022 1:51:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	4/23/2022 1:51:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	4/23/2022 1:51:00 PM
Surr: 4-Bromofluorobenzene	87.7	70-130	%Rec	1	4/23/2022 1:51:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	4/27/2022 3:07:27 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 16

Date Reported: 5/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: TP22-11 3'

 Project:
 Pecos Irrigation 1 10
 Collection Date: 4/19/2022 8:05:00 AM

 Lab ID:
 2204931-002
 Matrix: SOIL
 Received Date: 4/21/2022 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	4/26/2022 3:01:09 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/26/2022 3:01:09 AM
Surr: DNOP	53.8	51.1-141	%Rec	1	4/26/2022 3:01:09 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/23/2022 2:51:00 PM
Surr: BFB	109	37.7-212	%Rec	1	4/23/2022 2:51:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	4/23/2022 2:51:00 PM
Toluene	ND	0.047	mg/Kg	1	4/23/2022 2:51:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	4/23/2022 2:51:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	4/23/2022 2:51:00 PM
Surr: 4-Bromofluorobenzene	89.9	70-130	%Rec	1	4/23/2022 2:51:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	4/27/2022 3:19:47 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 16

Date Reported: 5/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: TP22-12 0

 Project:
 Pecos Irrigation 1 10
 Collection Date: 4/19/2022 8:10:00 AM

 Lab ID:
 2204931-003
 Matrix: SOIL
 Received Date: 4/21/2022 7:40:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 10 mg/Kg 1 4/26/2022 3:24:43 AM Motor Oil Range Organics (MRO) ND 51 mg/Kg 1 4/26/2022 3:24:43 AM Surr: DNOP 64.5 51.1-141 %Rec 1 4/26/2022 3:24:43 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 4/23/2022 3:11:00 PM 4.9 mg/Kg 1 Surr: BFB 114 37.7-212 %Rec 1 4/23/2022 3:11:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 0.024 mg/Kg 4/23/2022 3:11:00 PM 1 Toluene ND 0.049 mg/Kg 1 4/23/2022 3:11:00 PM Ethylbenzene ND 0.049 mg/Kg 1 4/23/2022 3:11:00 PM Xylenes, Total ND 0.097 mg/Kg 1 4/23/2022 3:11:00 PM 4/23/2022 3:11:00 PM Surr: 4-Bromofluorobenzene 92.5 70-130 %Rec 1 Analyst: JMT **EPA METHOD 300.0: ANIONS** Chloride ND 60 4/27/2022 3:56:49 PM ma/Ka 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 16

Date Reported: 5/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: TP22-12 3'

 Project:
 Pecos Irrigation 1 10
 Collection Date: 4/19/2022 8:15:00 AM

 Lab ID:
 2204931-004
 Matrix: SOIL
 Received Date: 4/21/2022 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	4/26/2022 3:48:28 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/26/2022 3:48:28 AM
Surr: DNOP	61.1	51.1-141	%Rec	1	4/26/2022 3:48:28 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	4/23/2022 3:31:00 PM
Surr: BFB	107	37.7-212	%Rec	1	4/23/2022 3:31:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	4/23/2022 3:31:00 PM
Toluene	ND	0.050	mg/Kg	1	4/23/2022 3:31:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	4/23/2022 3:31:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	4/23/2022 3:31:00 PM
Surr: 4-Bromofluorobenzene	89.2	70-130	%Rec	1	4/23/2022 3:31:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	61	mg/Kg	20	4/27/2022 4:33:52 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 16

Date Reported: 5/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: TP22-13 0'

 Project:
 Pecos Irrigation 1 10
 Collection Date: 4/19/2022 8:20:00 AM

 Lab ID:
 2204931-005
 Matrix: SOIL
 Received Date: 4/21/2022 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	4/26/2022 4:12:04 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	4/26/2022 4:12:04 AM
Surr: DNOP	80.0	51.1-141	%Rec	1	4/26/2022 4:12:04 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/23/2022 10:13:10 AM
Surr: BFB	94.9	37.7-212	%Rec	1	4/23/2022 10:13:10 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	4/23/2022 10:13:10 AM
Toluene	ND	0.047	mg/Kg	1	4/23/2022 10:13:10 AM
Ethylbenzene	ND	0.047	mg/Kg	1	4/23/2022 10:13:10 AM
Xylenes, Total	ND	0.095	mg/Kg	1	4/23/2022 10:13:10 AM
Surr: 4-Bromofluorobenzene	95.2	70-130	%Rec	1	4/23/2022 10:13:10 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	4/27/2022 4:46:12 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 16

Date Reported: 5/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: TP22-13 3'

 Project:
 Pecos Irrigation 1 10
 Collection Date: 4/19/2022 8:25:00 AM

 Lab ID:
 2204931-006
 Matrix: SOIL
 Received Date: 4/21/2022 7:40:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.0 mg/Kg 1 4/26/2022 4:35:39 AM Motor Oil Range Organics (MRO) ND 45 mg/Kg 1 4/26/2022 4:35:39 AM Surr: DNOP 65.2 51.1-141 %Rec 1 4/26/2022 4:35:39 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4/23/2022 11:24:04 AM 4.8 mg/Kg 1 Surr: BFB 93.1 37.7-212 %Rec 1 4/23/2022 11:24:04 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 4/23/2022 11:24:04 AM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 4/23/2022 11:24:04 AM Ethylbenzene ND 0.048 mg/Kg 1 4/23/2022 11:24:04 AM Xylenes, Total ND 0.096 mg/Kg 1 4/23/2022 11:24:04 AM Surr: 4-Bromofluorobenzene 95.5 70-130 %Rec 1 4/23/2022 11:24:04 AM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 4/27/2022 4:58:33 PM ma/Ka 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Xylenes, Total

Chloride

Surr: 4-Bromofluorobenzene

EPA METHOD 300.0: ANIONS

Analytical Report Lab Order 2204931

Date Reported: 5/2/2022

4/23/2022 11:47:46 AM

4/23/2022 11:47:46 AM

4/27/2022 5:10:54 PM

Analyst: JMT

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: TP22-14 0'

Project: Pecos Irrigation 1 10 Collection Date: 4/19/2022 8:30:00 AM Lab ID: 2204931-007 Matrix: SOIL Received Date: 4/21/2022 7:40:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.5 mg/Kg 1 4/26/2022 4:59:30 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 4/26/2022 4:59:30 AM Surr: DNOP 69.6 51.1-141 %Rec 1 4/26/2022 4:59:30 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4/23/2022 11:47:46 AM 5.0 mg/Kg 1 Surr: BFB 94.9 37.7-212 %Rec 1 4/23/2022 11:47:46 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.025 mg/Kg 4/23/2022 11:47:46 AM 1 Toluene ND 0.050 mg/Kg 1 4/23/2022 11:47:46 AM Ethylbenzene ND 0.050 mg/Kg 1 4/23/2022 11:47:46 AM

ND

96.4

ND

0.099

70-130

60

mg/Kg

%Rec

ma/Ka

1

1

20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

Sample pH Not In Range

Page 7 of 16 RLReporting Limit

Date Reported: 5/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: TP22-14 3'

 Project:
 Pecos Irrigation 1 10
 Collection Date: 4/19/2022 8:35:00 AM

 Lab ID:
 2204931-008
 Matrix: SOIL
 Received Date: 4/21/2022 7:40:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.8 mg/Kg 1 4/26/2022 5:23:19 AM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 4/26/2022 5:23:19 AM 51.1-141 Surr: DNOP 69.4 %Rec 1 4/26/2022 5:23:19 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4/23/2022 12:11:33 PM 4.7 mg/Kg 1 Surr: BFB 94.2 37.7-212 %Rec 1 4/23/2022 12:11:33 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 4/23/2022 12:11:33 PM 0.024 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 4/23/2022 12:11:33 PM Ethylbenzene ND 0.047 mg/Kg 1 4/23/2022 12:11:33 PM Xylenes, Total ND 0.095 mg/Kg 1 4/23/2022 12:11:33 PM Surr: 4-Bromofluorobenzene 95.8 70-130 %Rec 1 4/23/2022 12:11:33 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 4/27/2022 5:23:15 PM ma/Ka 20

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: TP22-09 6'

 Project:
 Pecos Irrigation 1 10
 Collection Date: 4/19/2022 11:00:00 AM

 Lab ID:
 2204931-009
 Matrix: SOIL
 Received Date: 4/21/2022 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	4/26/2022 5:47:00 AM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	4/26/2022 5:47:00 AM
Surr: DNOP	79.8	51.1-141	%Rec	1	4/26/2022 5:47:00 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/23/2022 12:35:15 PM
Surr: BFB	97.6	37.7-212	%Rec	1	4/23/2022 12:35:15 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	4/23/2022 12:35:15 PM
Toluene	ND	0.049	mg/Kg	1	4/23/2022 12:35:15 PM
Ethylbenzene	ND	0.049	mg/Kg	1	4/23/2022 12:35:15 PM
Xylenes, Total	ND	0.099	mg/Kg	1	4/23/2022 12:35:15 PM
Surr: 4-Bromofluorobenzene	99.0	70-130	%Rec	1	4/23/2022 12:35:15 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	110	59	mg/Kg	20	4/27/2022 5:35:35 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/2/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: TP22-09 9'

 Project:
 Pecos Irrigation 1 10
 Collection Date: 4/19/2022 11:05:00 AM

 Lab ID:
 2204931-010
 Matrix: SOIL
 Received Date: 4/21/2022 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	4/26/2022 6:10:30 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	4/26/2022 6:10:30 AM
Surr: DNOP	71.9	51.1-141	%Rec	1	4/26/2022 6:10:30 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/23/2022 12:58:59 PM
Surr: BFB	94.9	37.7-212	%Rec	1	4/23/2022 12:58:59 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	4/23/2022 12:58:59 PM
Toluene	ND	0.047	mg/Kg	1	4/23/2022 12:58:59 PM
Ethylbenzene	ND	0.047	mg/Kg	1	4/23/2022 12:58:59 PM
Xylenes, Total	ND	0.094	mg/Kg	1	4/23/2022 12:58:59 PM
Surr: 4-Bromofluorobenzene	96.9	70-130	%Rec	1	4/23/2022 12:58:59 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	4/27/2022 5:47:57 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2204931** *02-May-22*

Client: Vertex Resources Services, Inc.

Project: Pecos Irrigation 1 10

Sample ID: MB-67120 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 67120 RunNo: 87579

Prep Date: 4/27/2022 Analysis Date: 4/27/2022 SeqNo: 3099472 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-67120 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 67120 RunNo: 87579

Prep Date: 4/27/2022 Analysis Date: 4/27/2022 SeqNo: 3099473 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 92.8 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

50

4.4

Result

44

2.6

SampType: MS

Batch ID: 67016

Analysis Date: 4/26/2022

PQL

9.5

10

50.00

5.000

47.44

4.744

WO#: **2204931**

02-May-22

Client: Vertex Resources Services, Inc.

Project: Pecos Irrigation 1 10

Sample ID: MB-67014	SampTy	/pe: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	ID: 67	014	F	tunNo: 8	7468				
Prep Date: 4/22/2022	Analysis Da	ate: 4/	24/2022	S	SeqNo: 3	095123	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.6		10.00		96.0	51.1	141			
Sample ID: LCS-67014	SampTy	/pe: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	ID: 67	014	F	tunNo: 8	7468				
Prep Date: 4/22/2022	Analysis Da	ate: 4/	24/2022	S	SeqNo: 3	095124	Units: mg/M	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.1	68.9	135			
Surr: DNOP	4.2		5.000		84.3	51.1	141			
Sample ID: MB-67016	SampTy	/pe: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	ID: 67	016	F	lunNo: 8	7468				
Prep Date: 4/22/2022	Analysis Da	ate: 4/	24/2022	S	SeqNo: 3	095125	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		95.3	51.1	141			
Sample ID: LCS-67016	SampTy	/pe: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	ID: 67	016	F	lunNo: 8	7468				
Prep Date: 4/22/2022	Analysis Da	ate: 4/	24/2022	S	SeqNo: 3	095126	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

0

0

SPK value SPK Ref Val %REC

99.9

87.2

RunNo: 87468

92.5

55.6

SeqNo: 3098011

68.9

LowLimit

36.1

51.1

135

141

Units: mg/Kg

154

141

%RPD

RPDLimit

Qual

HighLimit

TestCode: EPA Method 8015M/D: Diesel Range Organics

Qualifiers:

Analyte

Surr: DNOP

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

Diesel Range Organics (DRO)

Client ID: TP22-11 3'

Prep Date: 4/22/2022

Diesel Range Organics (DRO)

Sample ID: 2204931-002AMS

Surr: DNOP

- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2204931** *02-May-22*

Client: Vertex Resources Services, Inc.

Project: Pecos Irrigation 1 10

Sample ID: 2204931-002AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: TP22-11 3' Batch ID: 67016 RunNo: 87468

Prep Date: 4/22/2022 Analysis Date: 4/26/2022 SeqNo: 3098013 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 0 53 50.45 105 36.1 154 18.8 33.9 Surr: DNOP 3.2 5.045 63.7 51.1 141 0 0

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

02-May-22

2204931

WO#:

Client: Vertex Resources Services, Inc.

Project: Pecos Irrigation 1 10

Sample ID: mb-66998 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 66998 RunNo: 87443

Prep Date: 4/21/2022 Analysis Date: 4/23/2022 SeqNo: 3094780 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 100 37.7 212

Sample ID: Ics-66998 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 66998 RunNo: 87443

Prep Date: 4/21/2022 Analysis Date: 4/23/2022 SeqNo: 3094781 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 25 5.0 25.00 O 98.1 72.3 137

Surr: BFB 2100 1000 206 37.7 212

Sample ID: Ics-66994 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 66994 RunNo: 87447

Prep Date: 4/21/2022 Analysis Date: 4/23/2022 SeqNo: 3094916 Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte LowLimit Qual Gasoline Range Organics (GRO) 28 5.0 25.00 0 113 72.3 137 Surr: BFB S 37.7 2300 1000 234 212

Sample ID: mb-66994 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 66994 RunNo: 87447

Prep Date: 4/21/2022 Analysis Date: 4/23/2022 SeqNo: 3094917 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1100 1000 108 37.7 212

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2204931

02-May-22

Client: Vertex Resources Services, Inc.

Project: Pecos Irrigation 1 10

Sample ID: mb-66998 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 66998 RunNo: 87443

Prep Date: 4/21/2022 Analysis Date: 4/23/2022 SeqNo: 3094846 Units: mg/Kg

PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result HighLimit Qual

Benzene ND 0.025 Toluene ND 0.050 0.050 Ethylbenzene ND Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 0.99 1.000 99.3 70 130

Sample ID: 2204931-005ams SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: TP22-13 0' Batch ID: 66998 RunNo: 87443

0.94

0.9506

Prep Date: 4/21/2022	Analysis [Date: 4/	23/2022	8	SeqNo: 3	094850	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.024	0.9524	0	92.0	68.8	120			
Toluene	0.93	0.048	0.9524	0	97.9	73.6	124			
Ethylbenzene	0.96	0.048	0.9524	0	101	72.7	129			
Xylenes, Total	2.9	0.095	2.857	0	101	75.7	126			
Surr: 4-Bromofluorobenzene	0.95		0.9524		99.6	70	130			

Sample ID: 2204931-005amsd SampType: MSD TestCode: EPA Method 8021B: Volatiles Client ID: TP22-13 0' Batch ID: 66998 RunNo: 87443 Prep Date: 4/21/2022 Analysis Date: 4/23/2022 SeqNo: 3094851 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 86.8 0.83 0.024 0.9506 68.8 120 5.94 20 Benzene n Toluene 0.88 0.048 0.9506 0 93.0 73.6 124 5.34 20 0 95.4 72.7 20 Ethylbenzene 0.91 0.048 0.9506 129 5.84 Xylenes, Total 2.7 0.095 2.852 0 95.9 75.7 126 5.18 20

Sample ID: Ics-66994	Samp	Гуре: LC	s	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: 66 9	994	F	RunNo: 8	7447				
Prep Date: 4/21/2022	Analysis [Date: 4/	23/2022	S	SeqNo: 3	094981	Units: mg/k	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	83.8	80	120			
Toluene	0.86	0.050	1.000	0	86.5	80	120			
Ethylbenzene	0.88	0.050	1.000	0	87.8	80	120			
Xylenes, Total	2.6	0.10	3.000	0	88.1	80	120			
Surr: 4-Bromofluorobenzene	0.88		1.000		88.3	70	130			

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference
- Analyte detected in the associated Method Blank

99.4

70

130

- Estimated value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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0

0

Hall Environmental Analysis Laboratory, Inc.

1.0

WO#: **2204931** *02-May-22*

%RPD

RPDLimit

Qual

Client: Vertex Resources Services, Inc.

Project: Pecos Irrigation 1 10

Sample ID: mb-66994 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 66994 RunNo: 87447

Prep Date: 4/21/2022 Analysis Date: 4/23/2022 SeqNo: 3094982 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Benzene ND 0.025

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

 Surr: 4-Bromofluorobenzene
 0.89
 1.000
 89.0
 70
 130

 Sample ID: Ics-66998
 SampType: LCS
 TestCode: EPA Method 8021B: Volatiles

 Client ID: LCSS
 Batch ID: 66998
 RunNo: 87480

 Prep Date: 4/21/2022
 Analysis Date: 4/25/2022
 SeqNo: 3095535
 Units: mg/Kg

PQL SPK value SPK Ref Val %REC LowLimit HighLimit 0.025 1.000 0 85.9 80 120 0.86 Benzene Toluene 0.91 0.050 1.000 0 91.0 80 120 0.050 0 93.3 80 120 Ethylbenzene 0.93 1.000 2.8 0.10 3.000 0 94.5 80 120 Xylenes, Total

1.000

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

104

70

130

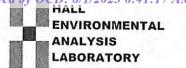
E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	Vertex Resources Services, Inc.	Work Order Numb	per: 220	4931			RcptNo: 1
Received By:	Tracy Casarrubias	4/21/2022 7:40:00 /	AM				
Completed By:	Tracy Casarrubias	4/21/2022 9:03:13 /	AM				
Reviewed By:	IO	4/21/22					
Chain of Cus	tody						
1. Is Chain of C	ustody complete?		Yes	V	No		Not Present
2. How was the	sample delivered?		Cou	ırier			
Log In							
	pt made to cool the samp	les?	Yes	V	No		NA 🗆
4. Were all same	oles received at a tempera	ture of >0° C to 6.0°C	Yes	V	No		NA 🗆
5. Sample(s) in I	proper container(s)?		Yes	V	No		
6. Sufficient sam	ple volume for indicated to	est(s)?	Yes	V	No		
7. Are samples (except VOA and ONG) pro	operly preserved?	Yes	V	No		
8. Was preserva	tive added to bottles?		Yes		No	V	NA 🗆
9. Received at le	ast 1 vial with headspace	<1/4" for AQ VOA?	Yes		No		NA 🗹
10. Were any san	nple containers received b	roken?	Yes		No	V	# of preserved
	rk match bottle labels?		Yes	V	No		bottles checked for pH: (<2 or >12 unless poted)
	orrectly identified on Chair		Yes	~	No		Adjusted?
	analyses were requested	Street, Street	Yes	~			
14. Were all holding	ng times able to be met? istomer for authorization.)		Yes	V	No		Checked by: Jn 4 21/22
	ing (if applicable)						
	tified of all discrepancies v	vith this order?	Yes		No		NA 🗹
Person I	Notified:	Date:				_	
By Who	m:	Via:	☐ eMa	ail 🖂	Phone	Fax	In Person
Regardi	ng:				Towns (
Client In	structions:					-	
16. Additional ren	narks:						
17. <u>Cooler Inforr</u> Cooler No	mation Temp °C Condition	Seal Intact Seal No	Seal D	ate	Signed I	3v	
1	4.6 Good	Yes	Juli Di		Oigned t	- y	

Clent			T	•			I	1.0 0.1	L	TA WILL	0		
4	urtex		Z Standard	Rush		A	T	MALL	MALL ENVI	IN	N N N	VETE I ABODATO	
			Project Name:							010	N I	ADORALOR	_
Mailing Address:	dress: 00	F,''6	Pecos		Irrigation 1-10	46	www.n	www kins N	<u> </u>	vironme	www.hallenvironmental.com	87100): 8/1
			Project #:			, F	Tol 505	FOE 24E 207E			קמב, ואואו	07.103	/202
Phone #:	/		226-00	-00 933			di. 505-	040-030	Anal	rax 50 vsis Re	303-345-4107 Reginest	0,0	23 0:
email or Fax#:	x#:		Project Manager:	ger:		-			₽ C		(1		
QA/QC Package: □ Standard	rage:	☐ Level 4 (Full Validation)	Chance	nce bixon	ca	1508) e 9AM\C		SMIS	PO4, SC		nəsdA\		
Accreditation:		☐ Az Compliance	Sampler: CD	Q	,		2808	146.0	10 ⁵ '				
□ NELAC	□ Otner	er	On Ice:	≰ Yes	□ No		3/s		_	(A(-		
□ EDD (Type)	(ed.		# of Coolers:	1			əpi		_	_			
			Cooler Temp(including CF);	(including CF): 46	(0.) 9. H= Ø-0	TM	oite		_				
Date Time	le Matrix	Sample Name	Container Type and #	Preservative Type	HEAL NO.	(X∃T8 08:H¶Í	9081 Pe M) 803	d sHAC	3,75, B	V) 0928 8) 0728	oO leto		
4119 8:00	1.105 00:1	100		ICC	100	1	3						
k	8:05	TA22-11 3'	-	,	.200								
À	8:10	T-P22-12 0'			008							-	
iò	8:15	TP22-12 3			Ood								
ò	8:30	TP22-13 0'			200								
ub	8:25	TP22-13 3'			200								
120	\$:30	TP22-14 0'			400								
iò	535	TP22-14 3'			00%								
11:	11:00	TP22-09 6'			8008								
50:11	Sa	16 60-2241	1		010								E
Date: I'me:		ned by:	Received by:	Via:	Pate Time	Remarks:	;;						Pag
Date: Time:	Relinquished by:	hed by:	Received by:	HE CO	Date Time								



July 21, 2023

CHANCE DIXON
VERTEX RESOURCE GROUP
420 SOUTH MAIN, SUITE 202
TULSA, OK 74103

RE: PECOS IRRIGATION 1-10 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/19/23 14:15.

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. Keine

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:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103

Fax To: NA

Received: 07/19/2023 Sampling Date: 07/18/2023

Reported: 07/21/2023 Sampling Type: Soil

Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition: Cool & Intact Project Number: 225-00933 Sample Received By: Tamara Oldaker

BTA -EDDY CO NM Project Location:

Sample ID: BS23 - 01 4FT (H233754-01)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2023	ND	2.20	110	2.00	2.34	
Toluene*	<0.050	0.050	07/19/2023	ND	2.18	109	2.00	1.67	
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	2.31	115	2.00	1.63	
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.92	115	6.00	2.00	
Total BTEX	<0.300	0.300	07/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 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	208	16.0	07/20/2023	ND	432	108	400	0.00	
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	07/20/2023	ND	185	92.4	200	14.8	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	192	96.1	200	16.4	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					
Surrogate: 1-Chlorooctane	61.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.2	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103

Fax To: NA

Received: 07/19/2023 Sampling Date: 07/18/2023

Reported: 07/21/2023 Sampling Type: Soil

Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition: Cool & Intact
Project Number: 225-00933 Sample Received By: Tamara Oldaker

Analyzed By: JH/

Project Location: BTA -EDDY CO NM

Sample ID: BS23 - 03 4FT (H233754-02)

BTEX 8021B

DIEX GOZID	ıııg,	K9	Allulyzo	a by. 5117					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2023	ND	2.20	110	2.00	2.34	
Toluene*	<0.050	0.050	07/19/2023	ND	2.18	109	2.00	1.67	
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	2.31	115	2.00	1.63	
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.92	115	6.00	2.00	
Total BTEX	<0.300	0.300	07/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 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	496	16.0	07/20/2023	ND	432	108	400	0.00	
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	07/20/2023	ND	185	92.4	200	14.8	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	192	96.1	200	16.4	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					
Surrogate: 1-Chlorooctane	65.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.6	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103

Fax To: NA

mg/kg

 Received:
 07/19/2023
 Sampling Date:
 07/18/2023

 Reported:
 07/21/2023
 Sampling Type:
 Soil

Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition: Cool & Intact
Project Number: 225-00933 Sample Received By: Tamara Oldaker

Analyzed By: JH/

Project Location: BTA -EDDY CO NM

Sample ID: BS23 - 05 4FT (H233754-03)

BTEX 8021B

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2023	ND	2.20	110	2.00	2.34	
Toluene*	<0.050	0.050	07/19/2023	ND	2.18	109	2.00	1.67	
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	2.31	115	2.00	1.63	
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.92	115	6.00	2.00	
Total BTEX	<0.300	0.300	07/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 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	80.0	16.0	07/20/2023	ND	416	104	400	7.41	
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	07/20/2023	ND	185	92.4	200	14.8	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	192	96.1	200	16.4	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					
Surrogate: 1-Chlorooctane	54.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	62.7	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103

Fax To: NA

Received: 07/19/2023 Sampling Date: 07/18/2023

Reported: 07/21/2023 Sampling Type: Soil

Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition: Cool & Intact Project Number: 225-00933 Sample Received By: Tamara Oldaker

Project Location: BTA -EDDY CO NM

Sample ID: BS23 - 06 4FT (H233754-04)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2023	ND	2.20	110	2.00	2.34	
Toluene*	<0.050	0.050	07/19/2023	ND	2.18	109	2.00	1.67	
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	2.31	115	2.00	1.63	
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.92	115	6.00	2.00	
Total BTEX	<0.300	0.300	07/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 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	448	16.0	07/20/2023	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	07/20/2023	ND	185	92.4	200	14.8	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	192	96.1	200	16.4	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					
Surrogate: 1-Chlorooctane	58.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	66.6	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103

Fax To: NA

Received: 07/19/2023 Sampling Date: 07/18/2023

Reported: 07/21/2023 Sampling Type: Soil

Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition: Cool & Intact Project Number: Sample Received By: Tamara Oldaker 225-00933

Project Location: BTA -EDDY CO NM

Sample ID: BS23 - 07 4FT (H233754-05)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2023	ND	2.20	110	2.00	2.34	
Toluene*	<0.050	0.050	07/19/2023	ND	2.18	109	2.00	1.67	
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	2.31	115	2.00	1.63	
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.92	115	6.00	2.00	
Total BTEX	<0.300	0.300	07/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 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	432	16.0	07/20/2023	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	07/20/2023	ND	185	92.4	200	14.8	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	192	96.1	200	16.4	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					
Surrogate: 1-Chlorooctane	57.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	65.6	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103

Fax To: NA

Received: 07/19/2023 Sampling Date: 07/18/2023

Reported: 07/21/2023 Sampling Type: Soil

Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition: Cool & Intact Project Number: Sample Received By: Tamara Oldaker 225-00933

Project Location: BTA -EDDY CO NM

Sample ID: BS23 - 08 4FT (H233754-06)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2023	ND	2.20	110	2.00	2.34	
Toluene*	<0.050	0.050	07/19/2023	ND	2.18	109	2.00	1.67	
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	2.31	115	2.00	1.63	
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.92	115	6.00	2.00	
Total BTEX	<0.300	0.300	07/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 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	448	16.0	07/20/2023	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	07/20/2023	ND	185	92.4	200	14.8	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	192	96.1	200	16.4	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					
Surrogate: 1-Chlorooctane	65.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.0	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103

Fax To: NA

Received: 07/19/2023 Sampling Date: 07/18/2023

Reported: 07/21/2023 Sampling Type: Soil

Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition: Cool & Intact
Project Number: 225-00933 Sample Received By: Tamara Oldaker

Analyzed By: JH/

Project Location: BTA -EDDY CO NM

mg/kg

Sample ID: BS23 - 09 4FT (H233754-07)

BTEX 8021B

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2023	ND	2.20	110	2.00	2.34	
Toluene*	<0.050	0.050	07/19/2023	ND	2.18	109	2.00	1.67	
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	2.31	115	2.00	1.63	
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.92	115	6.00	2.00	
Total BTEX	<0.300	0.300	07/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 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	448	16.0	07/20/2023	ND	416	104	400	7.41	
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	07/20/2023	ND	185	92.4	200	14.8	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	192	96.1	200	16.4	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					
Surrogate: 1-Chlorooctane	73.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.5	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103

Fax To: NA

Received: 07/19/2023 Sampling Date: 07/18/2023

Reported: 07/21/2023 Sampling Type: Soil

Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition: Cool & Intact
Project Number: 225-00933 Sample Received By: Tamara Oldaker

Applyzod By: 1H /

Project Location: BTA -EDDY CO NM

Sample ID: BS23 - 10 4FT (H233754-08)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2023	ND	2.20	110	2.00	2.34	
Toluene*	<0.050	0.050	07/19/2023	ND	2.18	109	2.00	1.67	
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	2.31	115	2.00	1.63	
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.92	115	6.00	2.00	
Total BTEX	<0.300	0.300	07/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 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	512	16.0	07/20/2023	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	07/20/2023	ND	185	92.4	200	14.8	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	192	96.1	200	16.4	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					
Surrogate: 1-Chlorooctane	71.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.1	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103

Fax To: NA

Received: 07/19/2023 Sampling Date: 07/18/2023

Reported: 07/21/2023 Sampling Type: Soil Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition:

Cool & Intact Project Number: 225-00933 Sample Received By: Tamara Oldaker

Project Location: BTA -EDDY CO NM

Sample ID: BS23 - 11 4FT (H233754-09)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2023	ND	2.20	110	2.00	2.34	
Toluene*	<0.050	0.050	07/19/2023	ND	2.18	109	2.00	1.67	
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	2.31	115	2.00	1.63	
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.92	115	6.00	2.00	
Total BTEX	<0.300	0.300	07/19/2023	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	480	16.0	07/20/2023	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	07/20/2023	ND	185	92.4	200	14.8	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	192	96.1	200	16.4	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					
Surrogate: 1-Chlorooctane	72.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.4	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103

NA

Received: 07/19/2023 Sampling Date: 07/18/2023

Reported: 07/21/2023 Sampling Type: Soil

Fax To:

Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition: Cool & Intact
Project Number: 225-00933 Sample Received By: Tamara Oldaker

Applyzod By: 1H /

Project Location: BTA -EDDY CO NM

Sample ID: BS23 - 12 4FT (H233754-10)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	ea By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2023	ND	2.20	110	2.00	2.34	
Toluene*	<0.050	0.050	07/19/2023	ND	2.18	109	2.00	1.67	
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	2.31	115	2.00	1.63	
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.92	115	6.00	2.00	
Total BTEX	<0.300	0.300	07/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	07/20/2023	ND	416	104	400	7.41	
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	07/20/2023	ND	185	92.4	200	14.8	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	192	96.1	200	16.4	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					
Surrogate: 1-Chlorooctane	73.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.1	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103

Fax To: NA

Received: 07/19/2023 Sampling Date: 07/18/2023

Reported: 07/21/2023 Sampling Type: Soil

Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition: Cool & Intact Project Number: 225-00933 Sample Received By: Tamara Oldaker

Project Location: BTA -EDDY CO NM

Sample ID: BS23 - 13 4FT (H233754-11)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2023	ND	2.20	110	2.00	2.34	
Toluene*	<0.050	0.050	07/19/2023	ND	2.18	109	2.00	1.67	
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	2.31	115	2.00	1.63	
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.92	115	6.00	2.00	
Total BTEX	<0.300	0.300	07/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 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	464	16.0	07/20/2023	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	07/20/2023	ND	185	92.4	200	14.8	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	192	96.1	200	16.4	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					
Surrogate: 1-Chlorooctane	70.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.7	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103

Fax To: NA

Received: 07/19/2023 Sampling Date: 07/18/2023

Reported: 07/21/2023 Sampling Type: Soil

Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition: Cool & Intact Project Number: Sample Received By: 225-00933 Tamara Oldaker

Project Location: BTA -EDDY CO NM

Sample ID: BS23 - 14 4FT (H233754-12)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2023	ND	2.20	110	2.00	2.34	
Toluene*	<0.050	0.050	07/19/2023	ND	2.18	109	2.00	1.67	
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	2.31	115	2.00	1.63	
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.92	115	6.00	2.00	
Total BTEX	<0.300	0.300	07/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 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	464	16.0	07/20/2023	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	07/20/2023	ND	185	92.4	200	14.8	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	192	96.1	200	16.4	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					
Surrogate: 1-Chlorooctane	76.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.2	% 49.1-14	8						

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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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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

company Name: VCX+QX	BILL TO	ANALYSIS OF THE PROPERTY OF TH
Project Manager: ChowCl DixOM	P.O. #:	ANALYSIS REQUEST
Address: 3101 Bard Dr	Company: 8TA	
State: N	MZip: COCO Attn: WWW.	STATE OF THE STATE
Phone #: 575980 1472 Fax #:	Address: 1045, 18658	54.
Project #: 125-00033 Project Owner:		
Project Name: YOURS LYNIGOTION !	-10 Tank Batter State: TX Zip: 7970	10701
Project Location: (OxtSback, NN)	Phone #: 437 687 375	3
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name: Vertex	
Project Manager: Chounce Dixov	P.O.#
Address: 2101 Bond Dr	Company: OTAC: I paralista
State: NNZip: 88220	S t
Phone # 715 980 1477 Fax #:	>
1999	City: NAMA
Project Name: YECOS Urrigation 1-10 Towk Bottery	State: TX Zip: 7970)
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Sampler Name: Farryando Codvig 2027	
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belivered By: (Circle One) Observed Tamp C Sample Condition	CHECKEDBY
0,0	(Initials) Thermometer ID #45 #46
† Cardinal cannot accept verbal change	Cardinal cannot accept verbal changes. Please email changes to celev keepe@cardinallaham com



July 24, 2023

CHANCE DIXON
VERTEX RESOURCE GROUP
420 SOUTH MAIN, SUITE 202
TULSA, OK 74103

RE: PECOS IRRIGATION 1-10 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/20/23 16:09.

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. Keine

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:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103

Fax To: NA

Received: 07/20/2023 Sampling Date: 07/19/2023

Reported: 07/24/2023 Sampling Type: Soil

Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition: ** (See Notes) Project Number: 22E-00933 Sample Received By: Tamara Oldaker

Project Location: BTA -EDDY CO NM

Sample ID: BS 23 - 02 4FT (H233800-01)

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	07/21/2023	ND	2.05	102	2.00	5.10	
Toluene*	<0.050	0.050	07/21/2023	ND	1.96	98.2	2.00	4.39	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	2.04	102	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.07	101	6.00	3.00	
Total BTEX	<0.300	0.300	07/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 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	240	16.0	07/21/2023	ND	432	108	400	0.00	
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	07/21/2023	ND	173	86.3	200	5.90	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	180	89.8	200	5.63	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					
Surrogate: 1-Chlorooctane	86.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103

Fax To: NA

Received: 07/20/2023 Sampling Date: 07/19/2023

Reported: 07/24/2023 Sampling Type: Soil

Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition: ** (See Notes)

Project Number: 22E-00933 Sample Received By: Tamara Oldaker

Project Location: BTA -EDDY CO NM

Sample ID: BS 23 - 04 4FT (H233800-02)

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	07/21/2023	ND	2.05	102	2.00	5.10	
Toluene*	<0.050	0.050	07/21/2023	ND	1.96	98.2	2.00	4.39	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	2.04	102	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.07	101	6.00	3.00	
Total BTEX	<0.300	0.300	07/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	96.0	16.0	07/21/2023	ND	432	108	400	0.00	
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	07/21/2023	ND	173	86.3	200	5.90	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	180	89.8	200	5.63	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					
Surrogate: 1-Chlorooctane	57.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	67.0	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103

Fax To: NA

Received: 07/20/2023 Sampling Date: 07/19/2023

Reported: 07/24/2023 Sampling Type: Soil
Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition: **(

Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition: ** (See Notes)

Project Number: 22E-00933 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: BTA -EDDY CO NM

Sample ID: WS 23 - 07 4FT (H233800-03)

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	07/21/2023	ND	2.05	102	2.00	5.10	
Toluene*	<0.050	0.050	07/21/2023	ND	1.96	98.2	2.00	4.39	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	2.04	102	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.07	101	6.00	3.00	
Total BTEX	<0.300	0.300	07/21/2023	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	352	16.0	07/21/2023	ND	432	108	400	0.00	
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	07/21/2023	ND	173	86.3	200	5.90	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	180	89.8	200	5.63	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103

Fax To: NA

Received: 07/20/2023 Sampling Date: 07/19/2023

Reported: 07/24/2023 Sampling Type: Soil

Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition: ** (See Notes) Project Number: 22E-00933 Sample Received By: Tamara Oldaker

Project Location: BTA -EDDY CO NM

Sample ID: WS 23 - 08 4FT (H233800-04)

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	07/21/2023	ND	2.05	102	2.00	5.10	
Toluene*	<0.050	0.050	07/21/2023	ND	1.96	98.2	2.00	4.39	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	2.04	102	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.07	101	6.00	3.00	
Total BTEX	<0.300	0.300	07/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	128	16.0	07/21/2023	ND	432	108	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	07/21/2023	ND	173	86.3	200	5.90	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	180	89.8	200	5.63	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					
Surrogate: 1-Chlorooctane	94.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103 Fax To: NA

 Received:
 07/20/2023
 Sampling Date:
 07/19/2023

 Reported:
 07/24/2023
 Sampling Type:
 Soil

Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition: ** (See Notes)

Project Number: 22E-00933 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: BTA -EDDY CO NM

Sample ID: WS 23 - 11 4FT (H233800-05)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	ea By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2023	ND	2.05	102	2.00	5.10	
Toluene*	<0.050	0.050	07/21/2023	ND	1.96	98.2	2.00	4.39	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	2.04	102	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.07	101	6.00	3.00	
Total BTEX	<0.300	0.300	07/21/2023	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	240	16.0	07/21/2023	ND	432	108	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	07/21/2023	ND	173	86.3	200	5.90	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	180	89.8	200	5.63	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					
Surrogate: 1-Chlorooctane	93.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103

Fax To: NA

Received: 07/20/2023 Sampling Date: 07/19/2023

Reported: 07/24/2023 Sampling Type: Soil

Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition: ** (See Notes)

Project Number: 22E-00933 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: BTA -EDDY CO NM

Sample ID: WS 23 - 12 4FT (H233800-06)

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	07/21/2023	ND	2.05	102	2.00	5.10	
Toluene*	<0.050	0.050	07/21/2023	ND	1.96	98.2	2.00	4.39	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	2.04	102	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.07	101	6.00	3.00	
Total BTEX	<0.300	0.300	07/21/2023	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	160	16.0	07/21/2023	ND	432	108	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	07/21/2023	ND	173	86.3	200	5.90	
DRO >C10-C28*	11.3	10.0	07/21/2023	ND	180	89.8	200	5.63	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					
Surrogate: 1-Chlorooctane	117	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	133	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103

Fax To: NA

Received: 07/20/2023 Sampling Date: 07/19/2023

Reported: 07/24/2023 Sampling Type: Soil

Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition: ** (See Notes) Project Number: 22E-00933 Sample Received By: Tamara Oldaker

Project Location: BTA -EDDY CO NM

Sample ID: WS 23 - 13 4FT (H233800-07)

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	07/21/2023	ND	2.05	102	2.00	5.10	
Toluene*	<0.050	0.050	07/21/2023	ND	1.96	98.2	2.00	4.39	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	2.04	102	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.07	101	6.00	3.00	
Total BTEX	<0.300	0.300	07/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	320	16.0	07/21/2023	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	07/21/2023	ND	173	86.3	200	5.90	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	180	89.8	200	5.63	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					
Surrogate: 1-Chlorooctane	97.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103

Fax To: NA

Received: 07/20/2023 Sampling Date: 07/19/2023

Reported: 07/24/2023 Sampling Type: Soil
Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition: **(

Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition: ** (See Notes)

Project Number: 22E-00933 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: BTA -EDDY CO NM

Sample ID: WS 23 - 14 4FT (H233800-08)

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	07/21/2023	ND	2.05	102	2.00	5.10	
Toluene*	<0.050	0.050	07/21/2023	ND	1.96	98.2	2.00	4.39	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	2.04	102	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.07	101	6.00	3.00	
Total BTEX	<0.300	0.300	07/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	160	16.0	07/21/2023	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	07/21/2023	ND	173	86.3	200	5.90	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	180	89.8	200	5.63	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					
Surrogate: 1-Chlorooctane	100	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115	% 49.1-14	8						

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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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



Company Name: Vev + &	VCV TRX VCV TRX	BILL TO		ANALYSIS REQUEST
ss: 3101 Boy	DV State: N.W. Zin: G.B.D. &L.	Company: BTA O. 1 Ly	and had	
Phone #:575296 1472	Fax #:	Address: 1045, Pecco55	2055	
2F-80	Project Owner:	city: Midland		
Project Name: Person harigation	on 1-10 Marketon	State: TX Zip: 79	101	
Project Location: Car Chad	NN	Phone #:		
Sampler Name: Lewondo	Roducione?	1		
- 1		PRESERV. SAME	SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	BTEX	
20-513-01	YET BY	V 7/4	11:00 1 1	
28583-04	464 111 1		11:05 < < <	
5 - 50 - 60 - OT	1 UP	<	V V V	
1 20 CO CO	UCT -	< <	1.70	
ころのころ	Ust V	\ \	11:28 ///	
1,503-12	With WILL	<	11:30 V V V	
M1-50578	UET V	<	11:35	
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Relinquished By:	Date: 20-23 Received By:	Mille	e emailed.	Please provide Email address: ex.Co./ Pavalytics@ Vertex. Co. Reynold and Devertex.
Relinquished By:	Date: Received By:		REMARKS: Lemp B	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Carracted Tamp. 'C 12 Sample Condition Cool Intact Corrected Tamp. 'C 12 Year 3 Yes No 1 No 1 No	ndition CHECKED BY: act (Initials) Yes	Turnaround Time: Standard Rush Thermometer ID #135 # 140 48 MRS	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C No Yes Yes No Oorrected Temp. °C



July 24, 2023

CHANCE DIXON
VERTEX RESOURCE GROUP
420 SOUTH MAIN, SUITE 202
TULSA, OK 74103

RE: PECOS IRRIGATION 1-10 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/20/23 16:09.

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. Keine

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:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103

Fax To: NA

Received: 07/20/2023 Sampling Date: 07/20/2023

Reported: 07/24/2023 Sampling Type: Soil

Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition: ** (See Notes) Project Number: 22E-00933 Sample Received By: Tamara Oldaker

BTA -EDDY CO NM Project Location:

Sample ID: BS 23 - 15 4FT (H233799-01)

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	07/21/2023	ND	2.09	104	2.00	1.43	
Toluene*	<0.050	0.050	07/21/2023	ND	2.04	102	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	1.98	99.0	2.00	1.69	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.00	99.9	6.00	1.61	
Total BTEX	<0.300	0.300	07/21/2023	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	160	16.0	07/21/2023	ND	432	108	400	0.00	
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	07/21/2023	ND	173	86.3	200	5.90	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	180	89.8	200	5.63	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103

Fax To: NA

Received: 07/20/2023 Sampling Date: 07/20/2023

Reported: 07/24/2023 Sampling Type: Soil Project Name: PECOS IRRIGATION 1-10 TANK BATTER\

Sampling Condition: ** (See Notes) Project Number: 22E-00933 Sample Received By: Tamara Oldaker

Project Location: BTA -EDDY CO NM

Sample ID: BS 23 - 16 4FT (H233799-02)

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	07/21/2023	ND	2.09	104	2.00	1.43	
Toluene*	<0.050	0.050	07/21/2023	ND	2.04	102	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	1.98	99.0	2.00	1.69	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.00	99.9	6.00	1.61	
Total BTEX	<0.300	0.300	07/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 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	144	16.0	07/21/2023	ND	432	108	400	0.00	
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	07/20/2023	ND	163	81.7	200	5.20	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	169	84.7	200	4.26	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					
Surrogate: 1-Chlorooctane	97.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103 Fax To: NA

 Received:
 07/20/2023
 Sampling Date:
 07/20/2023

 Reported:
 07/24/2023
 Sampling Type:
 Soil

Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition: ** (See Notes)

Project Number: 22E-00933 Sample Received By: Tamara Oldaker

Project Location: BTA -EDDY CO NM

Sample ID: BS 23 - 17 4FT (H233799-03)

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	07/21/2023	ND	2.09	104	2.00	1.43	
Toluene*	<0.050	0.050	07/21/2023	ND	2.04	102	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	1.98	99.0	2.00	1.69	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.00	99.9	6.00	1.61	
Total BTEX	<0.300	0.300	07/21/2023	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	80.0	16.0	07/21/2023	ND	432	108	400	0.00	
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	07/20/2023	ND	163	81.7	200	5.20	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	169	84.7	200	4.26	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103

Fax To: NA

Received: 07/20/2023 Sampling Date: 07/20/2023

Reported: 07/24/2023 Sampling Type: Soil
Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition: **(

Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition: ** (See Notes)

Project Number: 22E-00933 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: BTA -EDDY CO NM

Sample ID: BS 23 - 18 4FT (H233799-04)

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	07/21/2023	ND	2.09	104	2.00	1.43	
Toluene*	<0.050	0.050	07/21/2023	ND	2.04	102	2.00	2.00	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	1.98	99.0	2.00	1.69	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.00	99.9	6.00	1.61	
Total BTEX	<0.300	0.300	07/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	144	16.0	07/21/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/20/2023	ND	163	81.7	200	5.20	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	169	84.7	200	4.26	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					
Surrogate: 1-Chlorooctane	98.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103 Fax To: NA

 Received:
 07/20/2023
 Sampling Date:
 07/20/2023

 Reported:
 07/24/2023
 Sampling Type:
 Soil

Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition: ** (See Notes)

Project Number: 22E-00933 Sample Received By: Tamara Oldaker

Project Location: BTA -EDDY CO NM

Sample ID: BS 23 - 19 4FT (H233799-05)

True Value QC 2.00 2.00 2.00 6.00	RPD 1.43 2.00 1.69	Qualifier
2.00 2.00	2.00	
2.00		
	1.69	
6.00		
	1.61	
True Value QC	RPD	Qualifier
400	0.00	
True Value QC	RPD	Qualifier
200	5.20	
200	4.26	
_	200	200 5.20

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Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103

Fax To: NA

Received: 07/20/2023 Sampling Date: 07/20/2023 Reported: 07/24/2023 Sampling Type: Soil

Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition: ** (See Notes) Project Number: 22E-00933 Sample Received By: Tamara Oldaker

Project Location: BTA -EDDY CO NM

Sample ID: BS 23 - 20 4FT (H233799-06)

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	07/21/2023	ND	2.05	102	2.00	5.10	
Toluene*	<0.050	0.050	07/21/2023	ND	1.96	98.2	2.00	4.39	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	2.04	102	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.07	101	6.00	3.00	
Total BTEX	<0.300	0.300	07/21/2023	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	96.0	16.0	07/21/2023	ND	432	108	400	0.00	
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	07/20/2023	ND	163	81.7	200	5.20	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	169	84.7	200	4.26	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					
Surrogate: 1-Chlorooctane	116 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	134	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103 Fax To: NA

Received: 07/20/2023

Reported: 07/24/2023 Sampling Type: Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition:

Project Number: 22E-00933

Project Location: BTA -EDDY CO NM Sampling Date: 07/20/2023

Sample Received By:

Soil ** (See Notes)

Tamara Oldaker

Sample ID: BS 23 - 21 4FT (H233799-07)

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	07/21/2023	ND	2.05	102	2.00	5.10	
Toluene*	<0.050	0.050	07/21/2023	ND	1.96	98.2	2.00	4.39	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	2.04	102	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.07	101	6.00	3.00	
Total BTEX	<0.300	0.300	07/21/2023	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	112	16.0	07/21/2023	ND	432	108	400	0.00	
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	07/21/2023	ND	141	70.5	200	14.7	
DRO >C10-C28*	71.0	10.0	07/21/2023	ND	187	93.7	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					
Surrogate: 1-Chlorooctane	120 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	133 9	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103 Fax To: NA

Received: 07/20/2023 Sampling Date: 07/20/2023 Reported: 07/24/2023 Sampling Type: Soil

Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition: ** (See Notes) Project Number: 22E-00933 Sample Received By: Tamara Oldaker

Project Location: BTA -EDDY CO NM

Sample ID: BS 23 - 22 4FT (H233799-08)

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	07/21/2023	ND	2.05	102	2.00	5.10	
Toluene*	<0.050	0.050	07/21/2023	ND	1.96	98.2	2.00	4.39	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	2.04	102	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.07	101	6.00	3.00	
Total BTEX	<0.300	0.300	07/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	144	16.0	07/21/2023	ND	432	108	400	0.00	
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	07/21/2023	ND	141	70.5	200	14.7	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	187	93.7	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					
Surrogate: 1-Chlorooctane	94.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103 Fax To: NA

 Received:
 07/20/2023
 Sampling Date:
 07/20/2023

 Reported:
 07/24/2023
 Sampling Type:
 Soil

Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition: ** (See Notes)

Project Number: 22E-00933 Sample Received By: Tamara Oldaker

Project Location: BTA -EDDY CO NM

Sample ID: BS 23 - 23 4FT (H233799-09)

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	07/21/2023	ND	2.05	102	2.00	5.10	
Toluene*	<0.050	0.050	07/21/2023	ND	1.96	98.2	2.00	4.39	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	2.04	102	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.07	101	6.00	3.00	
Total BTEX	<0.300	0.300	07/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 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	192	16.0	07/21/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	141	70.5	200	14.7	
DRO >C10-C28*	11.8	10.0	07/21/2023	ND	187	93.7	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					
Surrogate: 1-Chlorooctane	87.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	18						

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Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103 Fax To: NA

Received: 07/20/2023

Reported: 07/24/2023
Project Name: PECOS IRRIGATION 1-10 TANK BATTER

Project Number: 22E-00933

Project Location: BTA -EDDY CO NM

Sampling Date: 07/20/2023

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: BS 23 - 24 4FT (H233799-10)

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	07/21/2023	ND	2.05	102	2.00	5.10	
Toluene*	<0.050	0.050	07/21/2023	ND	1.96	98.2	2.00	4.39	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	2.04	102	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.07	101	6.00	3.00	
Total BTEX	<0.300	0.300	07/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	128	16.0	07/21/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	141	70.5	200	14.7	
DRO >C10-C28*	23.8	10.0	07/21/2023	ND	187	93.7	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					
Surrogate: 1-Chlorooctane	91.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	18						

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Celey D. Keene



Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103

Fax To: NA

 Received:
 07/20/2023
 Sampling Date:
 07/20/2023

 Reported:
 07/24/2023
 Sampling Type:
 Soil

Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition: ** (See Notes)

Project Number: 22E-00933 Sample Received By: Tamara Oldaker

Project Location: BTA -EDDY CO NM

Sample ID: BS 23 - 25 4FT (H233799-11)

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	07/21/2023	ND	2.05	102	2.00	5.10	
Toluene*	<0.050	0.050	07/21/2023	ND	1.96	98.2	2.00	4.39	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	2.04	102	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.07	101	6.00	3.00	
Total BTEX	<0.300	0.300	07/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 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	144	16.0	07/21/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	141	70.5	200	14.7	
DRO >C10-C28*	28.3	10.0	07/21/2023	ND	187	93.7	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					
Surrogate: 1-Chlorooctane	83.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.5	% 49.1-14	18						

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Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103

Fax To: NA

 Received:
 07/20/2023
 Sampling Date:
 07/20/2023

 Reported:
 07/24/2023
 Sampling Type:
 Soil

Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition: ** (See Notes)

Project Number: 22E-00933 Sample Received By: Tamara Oldaker

Project Location: BTA -EDDY CO NM

Sample ID: BS 23 - 26 4FT (H233799-12)

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	07/21/2023	ND	2.05	102	2.00	5.10	
Toluene*	<0.050	0.050	07/21/2023	ND	1.96	98.2	2.00	4.39	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	2.04	102	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.07	101	6.00	3.00	
Total BTEX	<0.300	0.300	07/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	128	16.0	07/21/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	141	70.5	200	14.7	
DRO >C10-C28*	41.8	10.0	07/21/2023	ND	187	93.7	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					
Surrogate: 1-Chlorooctane	84.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.6	% 49.1-14	8						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103

Fax To: NA

 Received:
 07/20/2023
 Sampling Date:
 07/20/2023

 Reported:
 07/24/2023
 Sampling Type:
 Soil

Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition: ** (See Notes)
Project Number: 22E-00933 Sample Received By: Tamara Oldaker

Project Location: BTA -EDDY CO NM

Sample ID: BS 23 - 27 4FT (H233799-13)

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	07/21/2023	ND	2.05	102	2.00	5.10	
Toluene*	<0.050	0.050	07/21/2023	ND	1.96	98.2	2.00	4.39	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	2.04	102	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.07	101	6.00	3.00	
Total BTEX	<0.300	0.300	07/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	64.0	16.0	07/21/2023	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	141	70.5	200	14.7	
DRO >C10-C28*	40.4	10.0	07/21/2023	ND	187	93.7	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					
Surrogate: 1-Chlorooctane	96.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111	% 49.1-14	18						

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Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103

Fax To: NA

Received: 07/20/2023 Sampling Date: 07/20/2023

Reported: 07/24/2023 Sampling Type: Soil
Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition: ** (S

Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition: ** (See Notes)

Project Number: 22E-00933 Sample Received By: Tamara Oldaker

Project Location: BTA -EDDY CO NM

Sample ID: BS 23 - 28 4FT (H233799-14)

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	07/21/2023	ND	2.05	102	2.00	5.10	
Toluene*	<0.050	0.050	07/21/2023	ND	1.96	98.2	2.00	4.39	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	2.04	102	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.07	101	6.00	3.00	
Total BTEX	<0.300	0.300	07/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	80.0	16.0	07/21/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	141	70.5	200	14.7	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	187	93.7	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					
Surrogate: 1-Chlorooctane	91.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103

Fax To: NA

Received: 07/20/2023 Sampling Date: 07/20/2023

Reported: 07/24/2023 Sampling Type: Soil

Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition: ** (See Notes)

Project Number: 22E-00933 Sample Received By: Tamara Oldaker

Project Location: BTA -EDDY CO NM

Sample ID: BS 23 - 29 4FT (H233799-15)

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	07/21/2023	ND	2.05	102	2.00	5.10	
Toluene*	<0.050	0.050	07/21/2023	ND	1.96	98.2	2.00	4.39	
Ethylbenzene*	< 0.050	0.050	07/21/2023	ND	2.04	102	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.07	101	6.00	3.00	
Total BTEX	<0.300	0.300	07/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	96.0	16.0	07/21/2023	ND	432	108	400	0.00	
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	07/21/2023	ND	141	70.5	200	14.7	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	187	93.7	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117	% 49.1-14	8						

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Celey D. Kreine



Analytical Results For:

VERTEX RESOURCE GROUP CHANCE DIXON 420 SOUTH MAIN, SUITE 202 TULSA OK, 74103

Fax To: NA

Received: 07/20/2023 Sampling Date: 07/20/2023

Reported: 07/24/2023 Sampling Type: Soil

Project Name: PECOS IRRIGATION 1-10 TANK BATTER\ Sampling Condition: ** (See Notes) Project Number: 22E-00933 Sample Received By: Tamara Oldaker

Project Location: BTA -EDDY CO NM

Sample ID: BS 23 - 30 4FT (H233799-16)

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	07/21/2023	ND	2.05	102	2.00	5.10	
Toluene*	<0.050	0.050	07/21/2023	ND	1.96	98.2	2.00	4.39	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	2.04	102	2.00	4.82	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.07	101	6.00	3.00	
Total BTEX	<0.300	0.300	07/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 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	224	16.0	07/21/2023	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	141	70.5	200	14.7	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	187	93.7	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					
Surrogate: 1-Chlorooctane	118 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

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

Corrected Temp. °C

aboratories 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Sampler - UPS - Bus - Other: Relinquished By: Relinquished By: Delivered By: (Circle One) service. In no event shall Cardinal be liable city: Carlsbad
Phone #:575 988 1472 Sampler Name: Security of the Project Location: (ax/Sha Project Name: YELOS Lyxigation 1-10 Project #: 12E-00933 Project Manager: Chan Co Company Name: Lab I.D Address: 3101 8513-21 8513-18 8523-23 8513-70 222-17 319-8258 (575) 393-2326 FAX (575) 393-2476 lex tex negligence and any other cause whatsoever shall be Boyd Sample I.D. Observed Temp. "C rescend Temp tod vigue Time: Date: 7-20sental damages, including without limitation, business into Date: Time: Fax #: Project Owner: NA XOS State: NMzip: 8870 å Received By: Received By: (G)RAB OR (C)OMP Battery 0 # CONTAINERS unless made in writing and rec GROUNDWATER Sample Condition Cool Intact Yes 2 Yes WASTEWATER SOIL < MATRIX OIL SLUDGE OTHER State: TX Zip: 7970 eived by Cardinal within 30 days after Fax #: city: Midland P.O. # Phone #: Address: NMS, PRLOSS Attn: Kelton Beaud Company: ACID/BASE PRESERV CHECKED BY < ICE / COOL (Initials) 9 OTHER BILL TO 8TA01 DATE 100 red by client, its subsidiaries SAMPLING Turnaround Time: Verbal Result: ☐ Yes ☐ No Add'l Phone #: F All Results are emailed. Please provide Email address: 849 35555 300000 REMARKS: 8:58 co:xon@vertex.ca 8.15 8:10 8.0 8:00 TIME neter ID n of the BT #14048hes PH: 80151 Standard o Bu Add" Phone # 575 3614509 ANALYSIS REQUEST Cool Intact Bacteria (only) Sample Condition termian @ vertex.ca Observed Temp. °C

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

				1
Vestex		BILL TO	ANALYSIS REQUEST	IECT
Project Manager:	0,	P.O. #:	-	OLO!
Address:	Q	Company:		
City: State:	Zip: At	Attn:		
Phone #: Fax #:		Address:		
Project #: Project Owner:		City:		
Project Name:		State: Zin:		
Project Location:	P	*	0	
Sampler Name:	מ	Fay#	5	
FOR LAB USE ONLY	MATRIX	ESEDV	Sample of the sa	
Lab I.D. Sample I.D.	WATER	L	X X-80	
Hisspa	(G)RAB C # CONTA GROUND WASTEW SOIL OIL SLUDGE OTHER:	ACID/BAS ICE / COC OTHER:	BIE	
12 1523-25 YFT	< 5 21	v 7/20	8:50 ~ (
12 12 - 10 MEL	-	V	8:35	
12 12 - C1 24	. <	7.5	d.000 N N	
15 8513-7A UCT	<		0:10	
16 K523-30 4/24	<	< V	9:15	
commages. Caldonar's lability and client's exclusive nor those for negligence and any other cause whatsceve final be liable for incidental or consequential damages out of or related to the performance of services here.	redy for any claim arising whether based in contract or fort, shall be limited to the amount peid by the claim for the rehall be desented waved unless made in writing and received by Cardinal within 30 days after completion of the a finding without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, business interruptions, loss of use, or loss of profits and the shade of contractions of the shade of the	tor fort, shall be limited to the amount paid by the client for the directived by Cardinal within 30 days after completion of the a loss of use, or loss of profits incurred by client, its subcidiaries is based upon any of the above stated reserved.	by the client for the completion of the applicable completion of the applicable and the subsidiaries.	
8 8	Received By:	Make !	All Results are emailed. Please provide Email address: (1) [XOV (2) QV4-CY. (0) Results are emailed. Please provide Email address:	SOLANON ON THE POST OF THE POS
Time:	Received By:	,		The state of the s
Delivered By: (Circle One) Observed Tamp. "C Sampler - UPS - Bus - Other: Corrected Tamp. "C	Cool Intact	CHECKED BY: T	Turnaround Time: Standard Bacteria (only) Sample Condition Rush Lie Cool Intact Observed Temp.	Sample Condition Observed Temp. °C

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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

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

CONDITIONS

Action 246370

CONDITIONS

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	246370
Γ.	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date	
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2204056995 PECOS IRRIGATION 1-10 TANK BATTERY, thank you. This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation including pictures of the contoured backfilled excavation surface and a thorough discussion on reseeding mixture, vegetation ratio, timelines, etc, will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	1/11/2024	