

Environmental Site Remediation Work Plan

General Information

NMOCD District:	Lea
Landowner:	Bureau of Land Management
Client:	Sahara Operating Company
Date:	November 27, 2024
Client Contact:	Rob McAlpine
Vertex PM:	Andrew Parker

Incident ID:	NAPP2400529349
Lat/Long:	32.00421, -103.65131
Site Location:	North El Mar Unit #50
Project #:	24E-04576
Phone #:	432.697.0967
Phone #:	575.689.7007

Objective

The objective of the environmental remediation work plan is to identify exceedances found during the site assessment/characterization activity and propose an appropriate remediation technique to address these areas. Areas of environmental concern identified and delineated include: flow line release area along lease access roads and pipeline rights-of-way. Closure criteria has been selected as per New Mexico Administrative Code (NMAC) 19.15.29. All applicable research as it pertains to closure criteria selection is presented in Attachment 1. The closure criteria for the site is presented below.

Closure Criteria for Soils to Remediation & Reclamation Standards		
	Constituent	Limit
0-4 feet bgs (19.15.29.13)	Chloride	600 mg/kg
	TPH (GRO+DRO+MRO)	100 mg/kg
DTGW > 100 feet (19.15.29.12)	Chloride	20,000 mg/kg
	TPH (GRO+DRO+MRO)	2,500 mg/kg
	GRO+DRO	1,000 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

bgs – below ground surface

DTGW – depth to groundwater

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

BTEX – benzene, toluene, ethylbenzene and xylenes

Site Assessment/Characterization

The source of release is located at 32.00421, -103.65131 (WGS84). Initial characterization soils samples were obtained on January 2, 2024. A total of 16 sample points at various depths were established and samples collected for laboratory analysis. Soil samples were submitted to Cardinal Laboratories located in Carlsbad, New Mexico. The sample locations are presented in Figure 1 - Attachment 2. Laboratory analysis results have been compared to the above noted closure criteria and the results from the characterization activity are presented in Attachment 3. Exceedances are identified in the table as bold with a green background. Horizontal and vertical delineation with confirmation soil sampling will be completed during remedial activities.



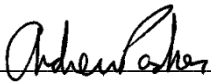
Photo 1: Release location viewing southwest showing flowpath along caliche access road. Date: 01/02/2024 4:25pm. 103.6512807°W 32.0042132°N. Source: R.T. Hicks Consultants.

Environmental Site Remediation Work Plan**Remedial Activities****General**

Areas identified with soil concentrations above closure criteria will be remediated through excavation. Laboratory results from the site assessment/characterization have been referenced to provide insight on the central release extent. Per the greater than 100 ft depth to groundwater criteria and medium karst potential, impacted soil will be excavated to 4 ft in areas where delineation identified greater than 600 mg/kg chloride concentration in the 0 to 4 ft depth. Depths below 4 feet will be excavated to meet the 20,000 mg/kg chloride closure criteria concentration. The horizontal extents of the contamination will be determined by excavating horizontally in 1 to 3 ft increments. Field screening will be utilized to confirm removal of contaminated soil below the applicable closure criteria horizontally and vertically. Impacted soils will be stored on a 30 mil liner prior to disposal at an approved facility. Once excavation is complete, confirmatory samples will be collected and laboratory analysis completed to confirm closure criteria guidelines are met. Excavations will be backfilled with clean soil sourced locally. The surface will be restored and reclaimed as pasture land, lease road and pipeline right-of-ways. The Reclamation Plan is presented in Appendix E.

An estimated 914 cubic yards of material will be excavated and disposed at an NMOCD approved facility. Remediation shall be completed within 45-days of work plan approval.

Should you have any questions or concerns, please do not hesitate to contact Andrew Parker at 575.689.7007 or aparker@vertexresource.com.



Andrew Parker, MGIS.

SENIOR PROJECT MANAGER, REPORT REVIEW

November 27, 2024

Date

Attachments

Attachment 1. Closure Criteria Research

Attachment 2. Site Map, Topo Map and DTW source location

Attachment 3. Laboratory Results Table and Laboratory Data Report

Attachment 4. Reclamation Plan

ATTACHMENT 1

Closure Criteria Determination			
Site Name: North El Mar 50			
Release Coordinates: 32.004284, -103.651315		X: UTM easting	Y: UTM northing
Reference	Site Specific Conditions	Value	Unit
	Depth to Groundwater (nearest reference)	100-500 ft	
1	Distance between release and nearest DTGW reference	2000ft - 0.5mi	
	Date of nearest DTGW reference measurement	November 21, 2011	
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	1 - 5 mi	
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	1 - 5 mi	
4	Within 300 feet from an occupied residence, school, hospital, institution or church	1 - 5 mi	
5	i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or	1 - 5 mi	
	ii) Within 1000 feet of any fresh water well or spring	0.5 - 1 mi	
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)
7	Within 300 feet of a wetland	1 - 5 mi	

8	Within the area overlying a subsurface mine	No	(Y/N)
	Distance between release and nearest registered mine	5mi >	
9	Within an unstable area (Karst Map)	Medium	Critical High Medium Low
10	Distance between release and nearest FEMA Zone A (100-year Floodplain)	5mi >	
11	Soil Type	Largo-Pajarito complex	
12	Ecological Classification	R070BD003NM — Loamy Sand	
13	Geology	Qoa, Older alluvial deposits	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	>100'	<50' 51-100' >100'

STATE OF TEXAS WELL REPORT for Tracking #276724

Owner:	EOG	Owner Well #:	H. MCKNIGHT WW1
Address:	TX	Grid #:	46-03-3
Well Location:	No Data	Latitude:	31° 59' 55" N
		Longitude:	103° 38' 52" W
Well County:	Loving	Elevation:	No Data
Type of Work:	New Well	Proposed Use:	Rig Supply

Drilling Start Date: 11/19/2011 Drilling End Date: 11/21/2011

	Diameter (in.)	Top Depth (ft.)	Bottom Depth (ft.)
Borehole:	17.5	0	125
	12.5	125	500

Drilling Method: Air Rotary
Borehole Completion: CASED NO GRAVEL PACK

	Top Depth (ft.)	Bottom Depth (ft.)	Description (number of sacks & material)
Annular Seal Data:	0	125	30
	0	10	6

Seal Method: Slurry Distance to Property Line (ft.): N/A
Sealed By: Driller Distance to Septic Field or other concentrated contamination (ft.): N/A
Distance to Septic Tank (ft.): No Data
Method of Verification: No Data

Surface Completion: Surface Sleeve Installed

Water Level: No Data
Packers: No Data
Type of Pump: No Data
Well Tests: Estimated Yield: 100 GPM

Water Quality:	Strata Depth (ft.)	Water Type
	330	FRESH WATER

Chemical Analysis Made: No

Did the driller knowingly penetrate any strata which contained injurious constituents?: No

Certification Data: The driller certified that the driller drilled this well (or the well was drilled under the driller's direct supervision) and that each and all of the statements herein are true and correct. The driller understood that failure to complete the required items will result in the report(s) being returned for completion and resubmittal.

Company Information: DUBOSE DRILLING INC
5407 N GOLDER
ODESSA, TX 79764

Driller Name: ALONZO DUKE License Number: 58544

Comments: No Data

Lithology: DESCRIPTION & COLOR OF FORMATION MATERIAL			Casing: BLANK PIPE & WELL SCREEN DATA			
Top (ft.)	Bottom (ft.)	Description	Dia. (in.)	New/Used	Type	Setting From/To (ft.)
0	100	BROWN SAND	12"	NEW	PVC BLANK	0-125
100	475	RED SANDSTONE	6"	NEW	PVC BLANK	0-400
475	500	GREY ROCK	6"	NEW	SLOTTED	400-500 .050

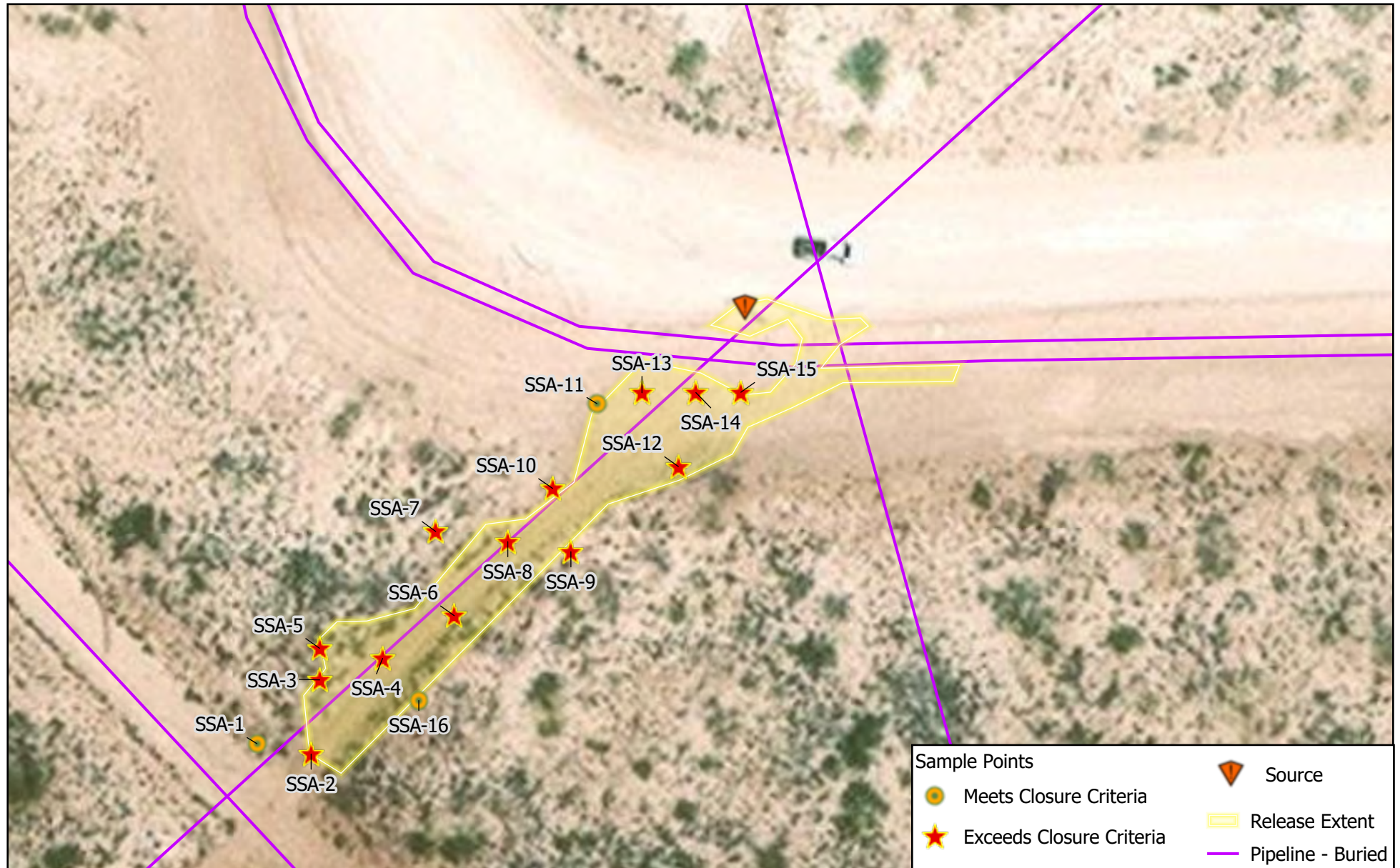
IMPORTANT NOTICE FOR PERSONS HAVING WELLS DRILLED CONCERNING CONFIDENTIALITY

TEX. OCC. CODE Title 12, Chapter 1901.251, authorizes the owner (owner or the person for whom the well was drilled) to keep information in Well Reports confidential. The Department shall hold the contents of the well log confidential and not a matter of public record if it receives, by certified mail, a written request to do so from the owner.

Please include the report's Tracking Number on your written request.

Texas Department of Licensing and Regulation
P.O. Box 12157
Austin, TX 78711
(512) 334-5540

ATTACHMENT 2



NAD 1983 StatePlane New Mexico East FIPS 3001 Feet

0 5 10 20 30 40 ft

Map Center:
Lat/Long: 32.004083°N, 103.651356°W

Date: Nov 25/24

N

Site Map
North El Mar Unit #50
(NAPP2400529349)

FIGURE:

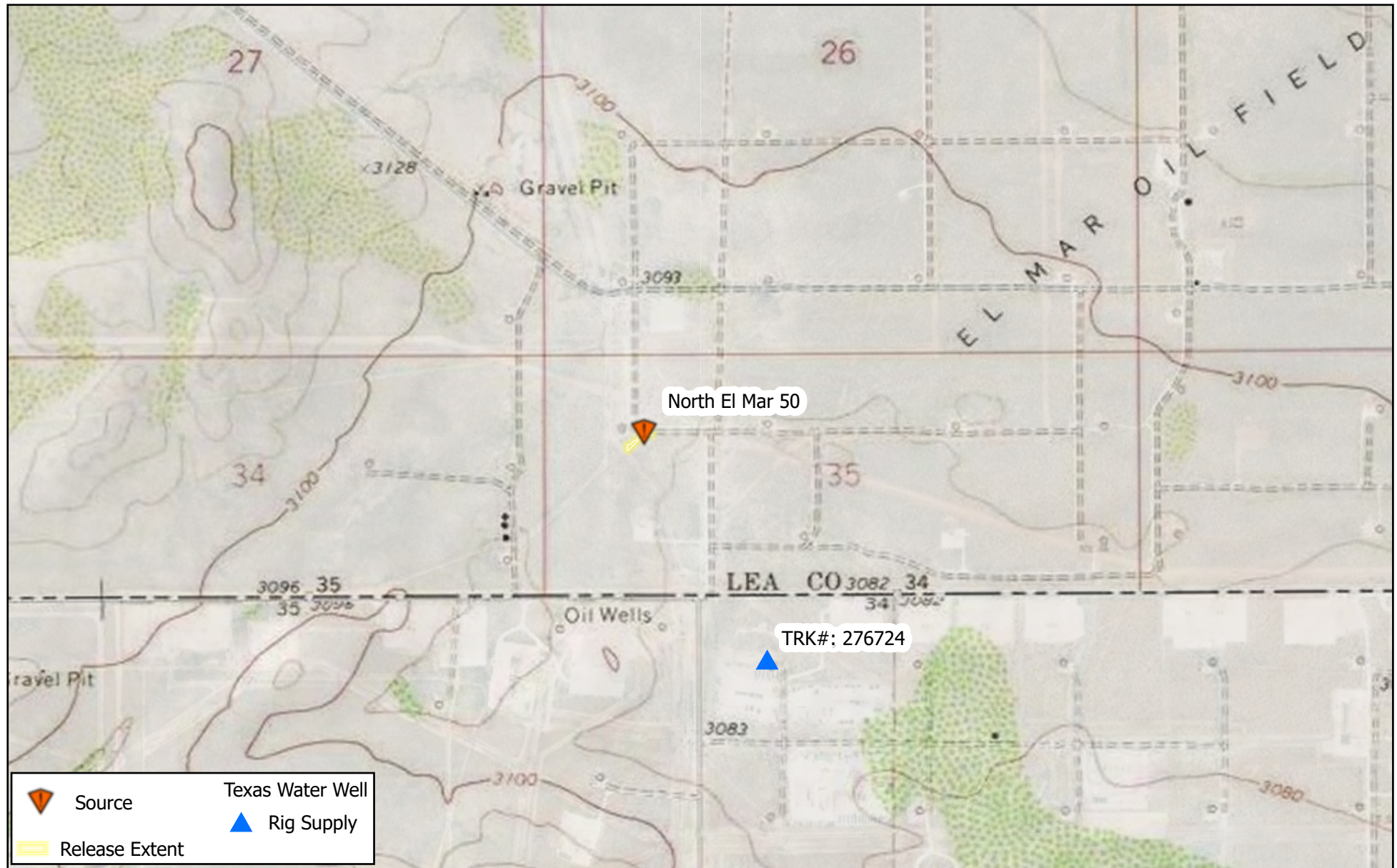
1

Sahara Operating
Company

Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Georeferenced image from Esri, 2024. Site features from GPS, Vertex and RT Hicks Consultants, 2024.

VERSATILITY. EXPERTISE.



Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Georeferenced image from Esri, 2024. Site features from GPS, Vertex and RT Hicks Consultants, 2024.

VERSATILITY. EXPERTISE.

ATTACHMENT 3

Client Name: Sahara Operating Company
 Site Name: North El Mar Unit #50
 NMOCD Tracking #: nAPP2400529349
 Project #: 24E-04576
 Lab Report: H240080

Initial Characterization Laboratory Results										
Sample Description			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable					
			Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)				
DTW > 100ft										
SSA-1	0-2	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	16
	2-4	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	16
	4.3	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	16
SSA-2	0-2	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	9,060
	2-4	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	10,800
	4.3	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	11,000
SSA-3	0-2	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	8,130
	2-4	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	15,800
	4.3	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	11,800
SSA-4	0-2	January 2, 2024	ND	ND	ND	10.3	ND	10.3	10.3	14,200
	2-4	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	15,200
	4.3	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	9,600
SSA-5	0-2	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	10,800
	2-4	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	15,200
	4.3	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	11,200
SSA-6	0-2	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	10,800
	2-4	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	14,400
	4.3	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	12,000
SSA-7	0-2	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	9,000
	2-4	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	11,900
	4.3	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	11,100
SSA-8	0-2	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	10,100
	2-4	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	14,400
	4.3	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	12,600
SSA-9	0-2	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	3,520
	2-4	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	336
	4.3	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	48
SSA-10	0-2	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	32
	2-4	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	816
	4.3	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	768
SSA-11	0-2	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	16
	2-4	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	32
	4.3	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	16
SSA-12	0-2	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	11,100
	2-4	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	11,400
	4.3	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	11,600

Sample Description			Petroleum Hydrocarbons							
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable					Inorganic
			Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)			
DTW > 100ft										
SSA-13	0-2	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	11,000
	2-4	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	16,000
	4.3	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	8,400
SSA-14	0-2	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	10,900
	2-4	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	11,600
	4.3	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	12,000
SSA-15	0-2	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	7,460
	2-4	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	5,460
	4.3	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	4,720
SSA-16	0-2	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	160
	2-4	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	32
	4.3	January 2, 2024	ND	ND	ND	ND	ND	ND	ND	32

"DTW" Depth to Water

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

Bold and green shaded indicates exceedance outside of NMOCD Reclamation Criteria (off-pad)



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

January 12, 2024

KRISTIN POPE

R T HICKS CONSULTANTS

901 RIO GRANDE BLVD SUITE F-142

ALBUQUERQUE, NM 87104

RE: N. EL MAR #050 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/09/24 14:25.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received: 01/09/2024
 Reported: 01/12/2024
 Project Name: N. EL MAR #050 RELEASE
 Project Number: NONE GIVEN
 Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SSA - 1 @ 0-2' (H240080-01)

BTEX 8021B		mg/kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.20	110	2.00	0.386	
Toluene*	<0.050	0.050	01/10/2024	ND	2.16	108	2.00	0.846	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.14	107	2.00	0.560	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.25	104	6.00	0.435	
Total BTEX	<0.300	0.300	01/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/10/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	197	98.3	200	3.37	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	205	102	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.2 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 1 @ 2-4' (H240080-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.20	110	2.00	0.386	
Toluene*	<0.050	0.050	01/10/2024	ND	2.16	108	2.00	0.846	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.14	107	2.00	0.560	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.25	104	6.00	0.435	
Total BTEX	<0.300	0.300	01/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/10/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	197	98.3	200	3.37	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	205	102	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.2 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 1 @ 4.3' (H240080-03)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.20	110	2.00	0.386	
Toluene*	<0.050	0.050	01/10/2024	ND	2.16	108	2.00	0.846	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.14	107	2.00	0.560	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.25	104	6.00	0.435	
Total BTEX	<0.300	0.300	01/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/10/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	197	98.3	200	3.37	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	205	102	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 2 @ 0-2' (H240080-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.20	110	2.00	0.386	
Toluene*	<0.050	0.050	01/10/2024	ND	2.16	108	2.00	0.846	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.14	107	2.00	0.560	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.25	104	6.00	0.435	
Total BTEX	<0.300	0.300	01/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9060	16.0	01/10/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	197	98.3	200	3.37	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	205	102	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 2 @ 2-4' (H240080-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2024	ND	2.20	110	2.00	0.386		
Toluene*	<0.050	0.050	01/10/2024	ND	2.16	108	2.00	0.846		
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.14	107	2.00	0.560		
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.25	104	6.00	0.435		
Total BTEX	<0.300	0.300	01/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10800	16.0	01/10/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	197	98.3	200	3.37	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	205	102	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 2 @ 4.3' (H240080-06)

BTX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.20	110	2.00	0.386	
Toluene*	<0.050	0.050	01/10/2024	ND	2.16	108	2.00	0.846	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.14	107	2.00	0.560	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.25	104	6.00	0.435	
Total BTX	<0.300	0.300	01/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11000	16.0	01/10/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	197	98.3	200	3.37	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	205	102	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 92.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received: 01/09/2024
 Reported: 01/12/2024
 Project Name: N. EL MAR #050 RELEASE
 Project Number: NONE GIVEN
 Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SSA - 3 @ 0-2' (H240080-07)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.20	110	2.00	0.386	
Toluene*	<0.050	0.050	01/10/2024	ND	2.16	108	2.00	0.846	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.14	107	2.00	0.560	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.25	104	6.00	0.435	
Total BTX	<0.300	0.300	01/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8130	16.0	01/10/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	211	106	200	3.83	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	207	103	200	4.47	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 76.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 3 @ 2-4' (H240080-08)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.20	110	2.00	0.386	
Toluene*	<0.050	0.050	01/10/2024	ND	2.16	108	2.00	0.846	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.14	107	2.00	0.560	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.25	104	6.00	0.435	
Total BTEX	<0.300	0.300	01/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15800	16.0	01/10/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	197	98.3	200	3.37	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	205	102	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 94.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 3 @ 4.3' (H240080-09)

BTEx 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.20	110	2.00	0.386	
Toluene*	<0.050	0.050	01/10/2024	ND	2.16	108	2.00	0.846	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.14	107	2.00	0.560	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.25	104	6.00	0.435	
Total BTEX	<0.300	0.300	01/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11800	16.0	01/10/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	211	106	200	3.83	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	207	103	200	4.47	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 76.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 4 @ 0-2' (H240080-10)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.20	110	2.00	0.386	
Toluene*	<0.050	0.050	01/10/2024	ND	2.16	108	2.00	0.846	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.14	107	2.00	0.560	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.25	104	6.00	0.435	
Total BTEX	<0.300	0.300	01/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14200	16.0	01/10/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	211	106	200	3.83	
DRO >C10-C28*	10.3	10.0	01/10/2024	ND	207	103	200	4.47	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received: 01/09/2024
 Reported: 01/12/2024
 Project Name: N. EL MAR #050 RELEASE
 Project Number: NONE GIVEN
 Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SSA - 4 @ 2-4' (H240080-11)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.20	110	2.00	0.386	
Toluene*	<0.050	0.050	01/10/2024	ND	2.16	108	2.00	0.846	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.14	107	2.00	0.560	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.25	104	6.00	0.435	
Total BTEX	<0.300	0.300	01/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15200	16.0	01/10/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	211	106	200	3.83	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	207	103	200	4.47	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 4 @ 4.3' (H240080-12)

BTEx 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.21	111	2.00	0.704	
Toluene*	<0.050	0.050	01/10/2024	ND	2.22	111	2.00	0.806	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.21	110	2.00	0.767	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.71	112	6.00	1.13	
Total BTEX	<0.300	0.300	01/10/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9600	16.0	01/10/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	211	106	200	3.83	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	207	103	200	4.47	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 81.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 5 @ 0-2' (H240080-13)

BTX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.21	111	2.00	0.704	
Toluene*	<0.050	0.050	01/10/2024	ND	2.22	111	2.00	0.806	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.21	110	2.00	0.767	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.71	112	6.00	1.13	
Total BTX	<0.300	0.300	01/10/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10800	16.0	01/10/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	211	106	200	3.83	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	207	103	200	4.47	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 80.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 5 @ 2-4' (H240080-14)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.21	111	2.00	0.704	
Toluene*	<0.050	0.050	01/10/2024	ND	2.22	111	2.00	0.806	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.21	110	2.00	0.767	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.71	112	6.00	1.13	
Total BTEX	<0.300	0.300	01/10/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	15200	16.0	01/10/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	211	106	200	3.83	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	207	103	200	4.47	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 5 @ 4.3' (H240080-15)

BTEx 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.21	111	2.00	0.704	
Toluene*	<0.050	0.050	01/10/2024	ND	2.22	111	2.00	0.806	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.21	110	2.00	0.767	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.71	112	6.00	1.13	
Total BTEX	<0.300	0.300	01/10/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11200	16.0	01/10/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	211	106	200	3.83	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	207	103	200	4.47	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 6 @ 0-2' (H240080-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2024	ND	2.21	111	2.00	0.704		
Toluene*	<0.050	0.050	01/10/2024	ND	2.22	111	2.00	0.806		
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.21	110	2.00	0.767		
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.71	112	6.00	1.13		
Total BTEx	<0.300	0.300	01/10/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10800	16.0	01/10/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	211	106	200	3.83	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	207	103	200	4.47	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 82.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 6 @ 2-4' (H240080-17)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.21	111	2.00	0.704	
Toluene*	<0.050	0.050	01/10/2024	ND	2.22	111	2.00	0.806	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.21	110	2.00	0.767	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.71	112	6.00	1.13	
Total BTEX	<0.300	0.300	01/10/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14400	16.0	01/10/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	211	106	200	3.83	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	207	103	200	4.47	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 80.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 6 @ 4.3' (H240080-18)

BTX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.21	111	2.00	0.704	
Toluene*	<0.050	0.050	01/10/2024	ND	2.22	111	2.00	0.806	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.21	110	2.00	0.767	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.71	112	6.00	1.13	
Total BTX	<0.300	0.300	01/10/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12000	16.0	01/10/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	211	106	200	3.83	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	207	103	200	4.47	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 7 @ 0-2' (H240080-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2024	ND	2.21	111	2.00	0.704		
Toluene*	<0.050	0.050	01/10/2024	ND	2.22	111	2.00	0.806		
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.21	110	2.00	0.767		
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.71	112	6.00	1.13		
Total BTEX	<0.300	0.300	01/10/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9000	16.0	01/10/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	211	106	200	3.83	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	207	103	200	4.47	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 79.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 7 @ 2-4' (H240080-20)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.21	111	2.00	0.704	
Toluene*	<0.050	0.050	01/10/2024	ND	2.22	111	2.00	0.806	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.21	110	2.00	0.767	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.71	112	6.00	1.13	
Total BTEX	<0.300	0.300	01/10/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11900	16.0	01/10/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	211	106	200	3.83	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	207	103	200	4.47	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received: 01/09/2024
 Reported: 01/12/2024
 Project Name: N. EL MAR #050 RELEASE
 Project Number: NONE GIVEN
 Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SSA - 7 @ 4.3' (H240080-21)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.21	111	2.00	0.704	
Toluene*	<0.050	0.050	01/10/2024	ND	2.22	111	2.00	0.806	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.21	110	2.00	0.767	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.71	112	6.00	1.13	
Total BTEX	<0.300	0.300	01/10/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11100	16.0	01/10/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	211	106	200	3.83	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	207	103	200	4.47	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 81.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 8 @ 0-2' (H240080-22)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.21	111	2.00	0.704	
Toluene*	<0.050	0.050	01/10/2024	ND	2.22	111	2.00	0.806	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.21	110	2.00	0.767	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.71	112	6.00	1.13	
Total BTEX	<0.300	0.300	01/10/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10100	16.0	01/10/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	211	106	200	3.83	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	207	103	200	4.47	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 8 @ 2-4' (H240080-23)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.21	111	2.00	0.704	
Toluene*	<0.050	0.050	01/10/2024	ND	2.22	111	2.00	0.806	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.21	110	2.00	0.767	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.71	112	6.00	1.13	
Total BTEX	<0.300	0.300	01/10/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14400	16.0	01/10/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	211	106	200	3.83	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	207	103	200	4.47	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 74.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received: 01/09/2024
 Reported: 01/12/2024
 Project Name: N. EL MAR #050 RELEASE
 Project Number: NONE GIVEN
 Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SSA - 8 @ 4.3' (H240080-24)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.21	111	2.00	0.704	
Toluene*	<0.050	0.050	01/10/2024	ND	2.22	111	2.00	0.806	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.21	110	2.00	0.767	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.71	112	6.00	1.13	
Total BTEX	<0.300	0.300	01/10/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12600	16.0	01/10/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	191	95.4	200	3.44	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	178	89.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received: 01/09/2024
 Reported: 01/12/2024
 Project Name: N. EL MAR #050 RELEASE
 Project Number: NONE GIVEN
 Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SSA - 9 @ 0-2' (H240080-25)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.21	111	2.00	0.704	
Toluene*	<0.050	0.050	01/10/2024	ND	2.22	111	2.00	0.806	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.21	110	2.00	0.767	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.71	112	6.00	1.13	
Total BTEX	<0.300	0.300	01/10/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3520	16.0	01/10/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	191	95.4	200	3.44	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	178	89.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received: 01/09/2024
 Reported: 01/12/2024
 Project Name: N. EL MAR #050 RELEASE
 Project Number: NONE GIVEN
 Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SSA - 9 @ 2-4' (H240080-26)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.21	111	2.00	0.704	
Toluene*	<0.050	0.050	01/10/2024	ND	2.22	111	2.00	0.806	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.21	110	2.00	0.767	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.71	112	6.00	1.13	
Total BTEX	<0.300	0.300	01/10/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	01/10/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	191	95.4	200	3.44	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	178	89.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 9 @ 4.3' (H240080-27)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2024	ND	2.21	111	2.00	0.704		
Toluene*	<0.050	0.050	01/10/2024	ND	2.22	111	2.00	0.806		
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.21	110	2.00	0.767		
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.71	112	6.00	1.13		
Total BTEx	<0.300	0.300	01/10/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/10/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	191	95.4	200	3.44	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	178	89.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 81.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 10 @ 0-2' (H240080-28)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.21	111	2.00	0.704	
Toluene*	<0.050	0.050	01/10/2024	ND	2.22	111	2.00	0.806	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.21	110	2.00	0.767	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.71	112	6.00	1.13	
Total BTEx	<0.300	0.300	01/10/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/10/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	191	95.4	200	3.44	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	178	89.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 49.1-148

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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 10 @ 2-4' (H240080-29)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.21	111	2.00	0.704	
Toluene*	<0.050	0.050	01/10/2024	ND	2.22	111	2.00	0.806	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.21	110	2.00	0.767	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.71	112	6.00	1.13	
Total BTX	<0.300	0.300	01/10/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	01/10/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	191	95.4	200	3.44	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	178	89.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 81.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 10 @ 4.3' (H240080-30)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.21	111	2.00	0.704	
Toluene*	<0.050	0.050	01/10/2024	ND	2.22	111	2.00	0.806	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.21	110	2.00	0.767	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.71	112	6.00	1.13	
Total BTEX	<0.300	0.300	01/10/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	01/10/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	191	95.4	200	3.44	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	178	89.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 11 @ 0-2' (H240080-31)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.21	111	2.00	0.704	
Toluene*	<0.050	0.050	01/10/2024	ND	2.22	111	2.00	0.806	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.21	110	2.00	0.767	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.71	112	6.00	1.13	
Total BTEX	<0.300	0.300	01/10/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/10/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	191	95.4	200	3.44	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	178	89.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 11 @ 2-4' (H240080-32)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2024	ND	2.09	104	2.00	2.14		
Toluene*	<0.050	0.050	01/10/2024	ND	2.12	106	2.00	3.00		
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.13	106	2.00	3.57		
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.32	105	6.00	3.72		
Total BTEX	<0.300	0.300	01/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/10/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	191	95.4	200	3.44	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	178	89.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 11 @ 4.3' (H240080-33)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.09	104	2.00	2.14	
Toluene*	<0.050	0.050	01/10/2024	ND	2.12	106	2.00	3.00	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.13	106	2.00	3.57	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.32	105	6.00	3.72	
Total BTEX	<0.300	0.300	01/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/10/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	191	95.4	200	3.44	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	178	89.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 81.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received: 01/09/2024
 Reported: 01/12/2024
 Project Name: N. EL MAR #050 RELEASE
 Project Number: NONE GIVEN
 Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SSA - 12 @ 0-2' (H240080-34)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2024	ND	2.09	104	2.00	2.14		
Toluene*	<0.050	0.050	01/10/2024	ND	2.12	106	2.00	3.00		
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.13	106	2.00	3.57		
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.32	105	6.00	3.72		
Total BTEX	<0.300	0.300	01/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11100	16.0	01/10/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	191	95.4	200	3.44	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	178	89.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 12 @ 2-4' (H240080-35)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.09	104	2.00	2.14	
Toluene*	<0.050	0.050	01/10/2024	ND	2.12	106	2.00	3.00	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.13	106	2.00	3.57	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.32	105	6.00	3.72	
Total BTEX	<0.300	0.300	01/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11400	16.0	01/10/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	191	95.4	200	3.44	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	178	89.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 12 @ 4.3' (H240080-36)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.09	104	2.00	2.14	
Toluene*	<0.050	0.050	01/10/2024	ND	2.12	106	2.00	3.00	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.13	106	2.00	3.57	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.32	105	6.00	3.72	
Total BTEX	<0.300	0.300	01/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11600	16.0	01/10/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	191	95.4	200	3.44	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	178	89.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 13 @ 0-2' (H240080-37)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.09	104	2.00	2.14	
Toluene*	<0.050	0.050	01/10/2024	ND	2.12	106	2.00	3.00	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.13	106	2.00	3.57	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.32	105	6.00	3.72	
Total BTEX	<0.300	0.300	01/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11000	16.0	01/10/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	191	95.4	200	3.44	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	178	89.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 80.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 13 @ 2-4' (H240080-38)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.09	104	2.00	2.14	
Toluene*	<0.050	0.050	01/10/2024	ND	2.12	106	2.00	3.00	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.13	106	2.00	3.57	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.32	105	6.00	3.72	
Total BTEX	<0.300	0.300	01/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16000	16.0	01/10/2024	ND	432	108	400	0.00	QM-07

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	191	95.4	200	3.44	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	178	89.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 13 @ 4.3' (H240080-39)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.09	104	2.00	2.14	
Toluene*	<0.050	0.050	01/10/2024	ND	2.12	106	2.00	3.00	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.13	106	2.00	3.57	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.32	105	6.00	3.72	
Total BTX	<0.300	0.300	01/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8400	16.0	01/10/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	191	95.4	200	3.44	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	178	89.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 14 @ 0-2' (H240080-40)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.09	104	2.00	2.14	
Toluene*	<0.050	0.050	01/10/2024	ND	2.12	106	2.00	3.00	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.13	106	2.00	3.57	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.32	105	6.00	3.72	
Total BTEX	<0.300	0.300	01/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10900	16.0	01/10/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	191	95.4	200	3.44	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	178	89.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 14 @ 2-4' (H240080-41)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/10/2024	ND	2.09	104	2.00	2.14		
Toluene*	<0.050	0.050	01/10/2024	ND	2.12	106	2.00	3.00		
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.13	106	2.00	3.57		
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.32	105	6.00	3.72		
Total BTEX	<0.300	0.300	01/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11600	16.0	01/10/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	191	95.4	200	3.44	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	178	89.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 14 @ 4.3' (H240080-42)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.09	104	2.00	2.14	
Toluene*	<0.050	0.050	01/10/2024	ND	2.12	106	2.00	3.00	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.13	106	2.00	3.57	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.32	105	6.00	3.72	
Total BTEX	<0.300	0.300	01/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12000	16.0	01/10/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	191	95.4	200	3.44	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	178	89.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 15 @ 0-2' (H240080-43)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.09	104	2.00	2.14	
Toluene*	<0.050	0.050	01/10/2024	ND	2.12	106	2.00	3.00	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.13	106	2.00	3.57	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.32	105	6.00	3.72	
Total BTX	<0.300	0.300	01/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7460	16.0	01/10/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	191	95.4	200	3.44	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	178	89.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 15 @ 2-4' (H240080-44)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.09	104	2.00	2.14	
Toluene*	<0.050	0.050	01/10/2024	ND	2.12	106	2.00	3.00	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.13	106	2.00	3.57	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.32	105	6.00	3.72	
Total BTEX	<0.300	0.300	01/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5460	16.0	01/10/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	187	93.7	200	4.20	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	182	91.0	200	4.78	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 15 @ 4.3' (H240080-45)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.09	104	2.00	2.14	
Toluene*	<0.050	0.050	01/10/2024	ND	2.12	106	2.00	3.00	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.13	106	2.00	3.57	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.32	105	6.00	3.72	
Total BTEX	<0.300	0.300	01/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	01/10/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	187	93.7	200	4.20	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	182	91.0	200	4.78	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 16 @ 0-2' (H240080-46)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.09	104	2.00	2.14	
Toluene*	<0.050	0.050	01/10/2024	ND	2.12	106	2.00	3.00	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.13	106	2.00	3.57	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.32	105	6.00	3.72	
Total BTEX	<0.300	0.300	01/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/10/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	187	93.7	200	4.20	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	182	91.0	200	4.78	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

R T HICKS CONSULTANTS
 KRISTIN POPE
 901 RIO GRANDE BLVD SUITE F-142
 ALBUQUERQUE NM, 87104
 Fax To: NONE

Received: 01/09/2024
 Reported: 01/12/2024
 Project Name: N. EL MAR #050 RELEASE
 Project Number: NONE GIVEN
 Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SSA - 16 @ 2-4' (H240080-47)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.09	104	2.00	2.14	
Toluene*	<0.050	0.050	01/10/2024	ND	2.12	106	2.00	3.00	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.13	106	2.00	3.57	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.32	105	6.00	3.72	
Total BTEX	<0.300	0.300	01/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/10/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	187	93.7	200	4.20	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	182	91.0	200	4.78	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 80.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

R T HICKS CONSULTANTS
KRISTIN POPE
901 RIO GRANDE BLVD SUITE F-142
ALBUQUERQUE NM, 87104
Fax To: NONE

Received: 01/09/2024
Reported: 01/12/2024
Project Name: N. EL MAR #050 RELEASE
Project Number: NONE GIVEN
Project Location: SAHARA - LEA CO NM

Sampling Date: 01/02/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSA - 16 @ 4.3' (H240080-48)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2024	ND	2.09	104	2.00	2.14	
Toluene*	<0.050	0.050	01/10/2024	ND	2.12	106	2.00	3.00	
Ethylbenzene*	<0.050	0.050	01/10/2024	ND	2.13	106	2.00	3.57	
Total Xylenes*	<0.150	0.150	01/10/2024	ND	6.32	105	6.00	3.72	
Total BTEX	<0.300	0.300	01/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/10/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/10/2024	ND	187	93.7	200	4.20	
DRO >C10-C28*	<10.0	10.0	01/10/2024	ND	182	91.0	200	4.78	
EXT DRO >C28-C36	<10.0	10.0	01/10/2024	ND					

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: R.T. Hicks Consultants				BILL TO				ANALYSIS REQUEST															
Project Manager: Kristin Pope				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div>Chloride</div> <div>TPH 8015M</div> <div>BTEX</div> </div>															
Address: 901 Rio Grande Blvd NW, Suite F-142				Company: R.T. Hicks																			
City: Albuquerque State: NM Zip: 87104				Attn: Randy																			
Phone #: 505-266-5004 Fax #:				Address:																			
Project #: Project Owner: Sahara				City:																			
Project Name: N. El Mar #050 release				State: Zip:																			
Project Location: Lea Co				Phone #:																			
Sampler Name: Kristin Pope				Fax #:																			
FOR LAB USE ONLY																							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	MATRIX	PRESERV.	SAMPLING																
					SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME										
H240080	1 SSA-1 @ 0-2 ft	G	1		✓				✓			1-2-2024	0940										
	2 SSA-1 @ 2-4 ft	G	1		✓				✓				0942										
	3 SSA-1 @ 4.3 ft	G	1		✓				✓				0944										
	4 SSA-2 @ 0-2 ft	G	1		✓				✓				0956										
	5 SSA-2 @ 2-4 ft	G	1		✓				✓				0958										
	6 SSA-2 @ 4.3 ft	G	1		✓				✓				1000										
	7 SSA-3 @ 0-2 ft	G	1		✓				✓				1030										
	8 SSA-3 @ 2-4 ft	G	1		✓				✓				1032										
	9 SSA-3 @ 4.3 ft	G	1		✓				✓				1034										
	10 SSA-4 @ 0-2 ft	G	1		✓				✓				1046										

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Relinquished By: Kristin Pope	Date: 1-9-24	Received By: [Signature]	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By: [Signature]	Date: 1-14-25	Received By: [Signature]	All Results are emailed. Please provide Email address:
Relinquished By: [Signature]	Date: [Blank]	Received By: [Signature]	kristin@rthicksconsult.com, R@rthicksconsult.com
Relinquished By: [Signature]	Date: [Blank]	Received By: [Signature]	REMARKS:
Delivered By: (Circle One)	Observed Temp. °C 3.1	Sample Condition	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	Bacteria (only) Sample Condition
		CHECKED BY: (Initials) [Signature]	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
		Thermometer ID #113 #140	Observed Temp. °C
		Correction Factor 0.5°C 1/9/24	Corrected Temp. °C

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: R.T. Hicks Consultants				BILL TO				ANALYSIS REQUEST											
Project Manager: Kristin Pope				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div>Chloride</div> <div>TPH 8015M</div> <div>BTEX</div> </div>											
Address: 901 Rio Grande Blvd NW, Suite F-142				Company: R.T. Hicks															
City: Albuquerque State: NM Zip: 87104				Attn: Randy															
Phone #: 505-266-5004 Fax #:				Address:															
Project #: Project Owner: Sahara				City:															
Project Name: N. El Mar #050 release				State: Zip:															
Project Location: Lea Co				Phone #:															
Sampler Name: Kristin Pope				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING										
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME					
H240080																			
11	SSA-4 @ 2-4 ft	G	1			✓				✓			1-2-2024	1048					
12	SSA-4 @ 4.3 ft	G	1			✓				✓				1050					
13	SSA-5 @ 0-2 ft	G	1			✓				✓				1058					
14	SSA-5 @ 2-4 ft	G	1			✓				✓				1100					
15	SSA-5 @ 4.3 ft	G	1			✓				✓				1102					
16	SSA-6 @ 0-2 ft	G	1			✓				✓				1110					
17	SSA-6 @ 2-4 ft	G	1			✓				✓				1112					
18	SSA-6 @ 4.3 ft	G	1			✓				✓				1114					
19	SSA-7 @ 0-2 ft	G	1			✓				✓				1122					
20	SSA-7 @ 2-4 ft	G	1			✓				✓				1124					

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Relinquished By:	Date:	Received By:	Verbal Result:	Add'l Phone #:
Kristin Pope	1-9-24		<input type="checkbox"/> Yes <input type="checkbox"/> No	
	Time:		All Results are emailed. Please provide Email address:	
	1425		kristin@rthicksconsult.com, R@rthicksconsult.com	
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY:	Turnaround Time:
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool Intact	(Initials)	Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Bacteria (only) Sample Condition
		<input type="checkbox"/> Yes <input type="checkbox"/> No		Cool Intact
				<input type="checkbox"/> Yes <input type="checkbox"/> No
				Observed Temp. °C
				Thermometer ID #113-#140
				Correction Factor 0.5°C
				Corrected Temp. °C

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: R.T. Hicks Consultants		BILL TO		ANALYSIS REQUEST																				
Project Manager: Kristin Pope		P.O. #:		<div style="display: flex; flex-direction: column; align-items: center;"> <div>Chloride</div> <div>TPH 8015M</div> <div>BTEX</div> </div>																				
Address: 901 Rio Grande Blvd NW, Suite F-142		Company: R.T. Hicks																						
City: Albuquerque State: NM Zip: 87104		Attn: Randy																						
Phone #: 505-266-5004 Fax #:		Address:																						
Project #: Project Owner: Sahara		City:																						
Project Name: N. El Mar #050 release		State: Zip:																						
Project Location: Lea Co		Phone #:																						
Sampler Name: Kristin Pope		Fax #:																						
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME										
H340080																								
21	SSA-7 @ 4.3 ft	G	1			✓					✓		1-2-2024	1126										
22	SSA-8 @ 0-2 ft	G	1			✓					✓			1133										
23	SSA-8 @ 2-4 ft	G	1			✓					✓			1130 ⁴⁵										
24	SSA-8 @ 4.3 ft	G	1			✓					✓			1137										
25	SSA-9 @ 0-2 ft	G	1			✓					✓			1144										
26	SSA-9 @ 2-4 ft	G	1			✓					✓			1146										
27	SSA-9 @ 4.3 ft	G	1			✓					✓			1148										
28	SSA-10 @ 0-2 ft	G	1			✓					✓			1158										
29	SSA-10 @ 2-4 ft	G	1			✓					✓			1200										
30	SSA-10 @ 4.3 ft	G	1			✓					✓			1202										

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Relinquished By:	Date: 1-9-24	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
<i>Kristin Pope</i>	Time: 1425	<i>Samara Alabake</i>	All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	kristin@rthicksconsult.com, R@rthicksconsult.com
	Time:		REMARKS:
Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
Sampler - UPS - Bus - Other:	Corrected Temp. °C 3.1	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	Bacteria (only) Sample Condition
		CHECKED BY: (Initials) <i>V.S.</i>	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No
		Thermometer ID #413 #140	Observed Temp. °C
		Correction Factor 0.5 °C	Corrected Temp. °C

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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: R.T. Hicks Consultants		BILL TO		ANALYSIS REQUEST																				
Project Manager: Kristin Pope		P.O. #:		<div style="display: flex; flex-direction: column; align-items: center;"> <div>Chloride</div> <div>TPH 80.50M</div> <div>BTEX</div> </div>																				
Address: 901 Rio Grande Blvd NW, Suite F-142		Company: R.T. Hicks																						
City: Albuquerque State: NM Zip: 87104		Attn: Randy																						
Phone #: 505-266-5004 Fax #:		Address:																						
Project #: Project Owner: Sahara		City:																						
Project Name: N. El Mar #050 release		State: Zip:																						
Project Location: Lea Co		Phone #:																						
Sampler Name: Kristin Pope		Fax #:																						
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME										
H240080																								
41	SSA-14 @ 2-4' ft	G	1			✓				✓			1-2-2024	1242										
42	SSA-14 @ 4.3 ft	G	1			✓				✓				1244										
43	SSA-15 @ 0-2 ft	G	1			✓				✓				1250										
44	SSA-15 @ 2-4 ft	G	1			✓				✓				1252										
45	SSA-15 @ 4.3 ft	G	1			✓				✓				1254										
46	SSA-16 @ 0-2 ft	G	1			✓				✓				1300										
47	SSA-16 @ 2-4 ft	G	1			✓				✓				1302										
48	SSA-16 @ 4.3 ft	G	1			✓				✓				1304										
49	TO																							
	1/9/24																							

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Relinquished By: <i>Kristin Pope</i>		Date: 1-9-24	Received By: <i>Kenneth Oldak</i>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: 1425		Time:		All Results are emailed. Please provide Email address:		
Relinquished By: <i>Kristin Pope</i>		Date:	Received By:		REMARKS:	
Time:						
Delivered By: (Circle One)		Observed Temp. °C 3.1	Sample Condition		CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		Corrected Temp. °C	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
			Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Bacteria (only) Sample Condition	
			Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Observed Temp. °C	
			Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Corrected Temp. °C	
			Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No			

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

ATTACHMENT 4



24E-04576

Surface Reclamation Plan

North El Mar Unit 50

Prepared for:

Sahara Operating
PO Box 4130
Midland, Texas 79704
United States

Prepared by:

Vertex Resource Services Inc.
3101 Boyd Drive,
Carlsbad, New Mexico 88220

Date:

November 27, 2024

Project ID: 24E-04576
 Location: North El Mar Unit #50
 Incident #: nAPP2223549434



Reclamation Plan

Sahara Operating Company
 North El Mar Unit 50
 Lease #/Lessee: NMNM105554589/BLM
 NMOCD Incident Number: nAPP2223549434
 UL, S, T, R: D-35; T26S.R32E. County: Lea
 Lat Long: 32.00421, -103.65131 (WGS84)

Vertex Resource Services Inc., respectfully submits the following reclamation plan on behalf of Sahara Operating Company for the above location to restore the surface after remediation activities following a produced water release.

1. Figure 1 of the remediation plan shows the release extent relative to surrounds.
2. Access and driving directions: From the intersection of Country Rd J-1 (Orla Rd) and Battle Axe Rd, proceed east for 3.2 miles. Turn south on lease road. Continue south for 0.24 miles.
3. Site description
 - a. Site Use: Lease road and pipeline ROW; pasture land.
 - b. Likely future use: ROW and pasture land.
 - c. Topography: Nearly level, gentle slope to the south-southwest.
 - d. Vegetation Type: Broom Snakeweed, Mesquite, Galleta Grass, Yucca.
 - e. Soil Type: The USDA Natural Resources Conservation Service (NRCS) Web Soil Survey¹ described the near surface lithology at the site as follows:

LP—Largo-Pajarito complex

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Typical Profile

A - 0 to 13 inches: loam

AC - 13 to 30 inches: silty clay loam

C - 30 to 60 inches: silty clay loam

4. Assessment of soil suitability
 - a. Special Soil Conditions – Impacted soils identified in the subject Remediation Plan for Incident ID nAPP2223549434. Impacted soils will be remediated prior to final surface reclamation.
5. Areas subject to remediation will be backfilled with clean, non-impacted soil, contoured to match surrounding topography,
6. A cultural survey will be completed prior to any new surface disturbance.

¹ NRCS Field Guide and the NRCS web survey tool (<https://websoilsurvey.nrcs.usda.gov/app/>)



Project ID: 24E-04576
Location: North El Mar Unit #50
Incident #: nAPP2223549434

7. Soil will be ripped, tilled or disced to a depth of 12-18 inches prior to application of topsoil, the area will then be contoured to match surrounding topography.
8. Site specific soil contouring: This site is generally flat and limited contouring required to match surrounding topography.
9. Topsoil replacement with clean, non-impacted soil will be placed at a depth of 6-12 inches for final seedbed preparation. Topsoil will be placed to match the surface level of surrounding landscape, imitating the original landform as much as possible.
10. Access roads will be restored to conditions prior to the release.
11. Seed Mixture: BLM Seed Mixture #1 for Loamy Sites will be planted in the amount specified in the pounds pure live seed (PLS) per acre:
 - Plains lovegrass - 0.5
 - Sand dropseed - 1.0
 - Sideoats grama - 5.0
 - Plains bristlegrass - 2.0
12. Timing of seeding: within 2 weeks following completion of final seedbed preparation.
13. Seed application technique: Broadcast seeding followed by dragging or chaining.
14. Erosion Control: Not required.
15. The reclaimed lease roads will be bermed at the edges to discourage vehicles from entering the reclaimed area. The berm will be broadcast seeded to encourage stabilization.
16. Photos of the reclamation will be included in the remediation closure report.
17. Monitoring plan
 - a. The site will be monitored for vegetation growth to ensure that reclamation and reseeded activities were sufficient.
 - b. The site will be evaluated for soil stabilization, erosion, and invasive and noxious species.
 - c. Noxious and invasive weeds will be identified and treated or mechanically removed.
 - d. Inspections will occur annually until revegetation is consistent with local natural vegetation density (> 70% of pre disturbance area levels).
 - e. If the initial reclamation efforts are ultimately deemed unsuccessful, reclamation activities will be reevaluated. Soil amendments will be added as applicable, and reseeded will be performed in the first following favorable growing season.
 - f. When revegetation is completed, BLM will be notified for final inspection.
18. Implementation schedule:
 - a. Upon approval of remediation/reclamation workplan, the project will be completed in 12 weeks following workplan approval.



Project ID: 24E-04576
Location: North El Mar Unit #50
Incident #: nAPP2223549434

Should you have any questions or concerns, please do not hesitate to contact Andrew Parker at 575.689.7007 or aparker@vertexresource.com.

A handwritten signature in black ink, appearing to read 'Andrew Parker', is written over a horizontal line.

Andrew Parker
Senior Project Manager, MGIS

Vertex Resource Services Inc.
3101 Boyd Drive,
Carlsbad, New Mexico 88220



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

General Information
Phone: (505) 629-6116

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<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 407211

QUESTIONS

Operator: SAHARA OPERATING CO P.O. Box 4130 Midland, TX 79704	OGRID: 20077
	Action Number: 407211
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2400529349
Incident Name	NAPP2400529349 NORTH EL MAR 050 INJECTION LINE RELEASE @ 30-025-08305
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-025-08305] NORTH EL MAR UNIT #050

Location of Release Source*Please answer all the questions in this group.*

Site Name	NORTH EL MAR 050 INJECTION LINE RELEASE
Date Release Discovered	12/13/2023
Surface Owner	Federal

Incident Details*Please answer all the questions in this group.*

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

Nature and Volume of Release*Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Human Error Flow Line - Injection Produced Water Released: 32 BBL Recovered: 0 BBL Lost: 32 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	The original C-141 is attached to the volume calculation worksheet. There is no documentation that the original C-141 dated December 29,2023 was received by NMOCD.

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QUESTIONS, Page 2

Action 407211

QUESTIONS (continued)

Operator: SAHARA OPERATING CO P.O. Box 4130 Midland, TX 79704	OGRID: 20077
	Action Number: 407211
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Andrew Parker Title: Consultant Email: aparker@vertexresource.com Date: 10/26/2024
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QUESTIONS, Page 3

Action 407211

QUESTIONS (continued)

Operator: SAHARA OPERATING CO P.O. Box 4130 Midland, TX 79704	OGRID: 20077
	Action Number: 407211
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	16000
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	01/06/2025
On what date will (or did) the final sampling or liner inspection occur	01/20/2024
On what date will (or was) the remediation complete(d)	01/20/2025
What is the estimated surface area (in square feet) that will be reclaimed	6168
What is the estimated volume (in cubic yards) that will be reclaimed	914
What is the estimated surface area (in square feet) that will be remediated	6168
What is the estimated volume (in cubic yards) that will be remediated	914
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 407211

QUESTIONS (continued)

Operator: SAHARA OPERATING CO P.O. Box 4130 Midland, TX 79704	OGRID:
	20077
	Action Number:
	407211
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Andrew Parker Title: Consultant Email: aparker@vertexresource.com Date: 11/27/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 407211

QUESTIONS (continued)

Operator: SAHARA OPERATING CO P.O. Box 4130 Midland, TX 79704	OGRID: 20077
	Action Number: 407211
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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QUESTIONS, Page 6

Action 407211

QUESTIONS (continued)

Operator: SAHARA OPERATING CO P.O. Box 4130 Midland, TX 79704	OGRID: 20077
	Action Number: 407211
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 407211

CONDITIONS

Operator: SAHARA OPERATING CO P.O. Box 4130 Midland, TX 79704	OGRID: 20077
	Action Number: 407211
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
nvelez	The remediation plan is approved as written. Sahara Operating has 90-days (March 10, 2025) to submit to OCD its appropriate or final remediation closure report.	12/10/2024