Site Assessment Summary & Variance Request

Solaris Water Midstream, LLC Urraca Booster Pump

Lea County, New Mexico
Unit Letter "B", Section 11, Township 23 South, Range 32 East
Latitude 32.32348 North, Longitude 103.64382 West
NMOCD Reference No. nAPP2310130251

Prepared By:

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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Solaris Water Midstream, LLC (Solaris), has prepared this *Site Assessment Summary & Variance Request* for the release site known as the Urraca Booster Pump. Details of the release are summarized below:

Location of Release Source										
Latitude: 32.32348 Longitude: -103.64382										
Provided GPS are in WGS84 format.										
Site Name: Urraca Booster Pump Site Type: Booster Pump										
Date Release Discovered: 4/10/2023 API # (if applicable): N/A										
Unit Letter Section Township Range County										
"B"	11 23S	32E	Lea							
Surface Owner: Sta	ate X Federal Tribal	Private (N	ame							
	Nature a	nd Volume of	Release							
Crude Oil	Volume Released (bbls)		Volume Recovered (bbls)							
X Produced Water Volume Released (bbls) 51 Volume Recovered (bbls) 10										
Is the concentration of dissolved chloride in the produced water > 10,000 mg/L?										
Condensate	Volume Released (bbls)		Volume Recovered (bbls)							
Natural Gas	Volume Released (Mcf)		Volume Recovered (Mcf)							
Other (describe)	Volume/Weight Released		Volume/Weight Recovered							
Cause of Release: A hose fastener on the stopped and the hose in		e pump was being	monitored and was turned off. The pump was							
Initial Response										
X The source of the r	release has been stopped.									
X The impacted area	has been secured to protect hu	ıman health and the	environment.							
X Release materials h	nave been contained via the use	e of berms or dikes,	absorbent pad, or other containment devices							
X All free liquids and	d recoverable materials have be	een removed and m	anaged appropriately.							

Previously submitted portions of the New Mexico Oil Conservation Division (NMOCD) Form C-141 are available in the NMOCD Imaging System.

2.0 SITE CHARACTERIZATION

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (bgs)?	Between 500 and 1,000 (ft.)
What method was used to determine the depth to groundwater?	Estimate or Other
Did the release impact groundwater or surface water?	Yes X 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?	1 to 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	1 to 5 (mi.)
An occupied permanent residence, school, hospital, institution or church?	> 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	1 to 5 (mi.)
Any other fresh water well or spring?	1 to 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field?	> 5 (mi.)
A wetland?	1 to 5 (mi.)
A subsurface mine?	> 5 (mi.)
A (non-karst) unstable area?	1 to 5 (mi.)
Categorize the risk of this well/site being in a karst geology.	Low
A 100-year floodplain?	> 5 (mi.)
Did the release impact areas not on an exploration, development, production or storage site?	X Yes No

Searches of databases maintained by the NMOCD, New Mexico Office of the State Engineer (NMOSE), and United States Geological Survey (USGS) were conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Urraca Booster Pump release site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided in Appendix A.

Additional NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) and Fish and Wildlife Services (FWS) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted in Figures 1, 2A, 2B, and 5.

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standard for the Urraca Booster Pump release site are as follows:

Probable Depth to Groundwater	('onstituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
	Chloride (Cl-)	EPA 300.0 or SM4500 Cl B	20,000	600
Between 500 and	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
1,000 (ft.)	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	1,000	=
1,000 (11.)	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

^{*} Measured in milligrams per kilogram (mg/kg)

[†] Table I, Section 19.15.29.12 of the New Mexico Administrative Code (NMAC).

 $[\]ddagger \ The \ NMOCD \ Reclamation \ Standard \ applies \ only \ to \ the \ top \ 4' \ of \ soil \ in \ non-production \ areas. \ Section \ 19.15.29.13 \ D.(1) \ NMAC.$

4.0 SITE ASSESSMENT

On May 22 and 23, 2023, Etech conducted an initial site assessment. During the initial site assessment, five (5) hand-augered soil bores (V1 through V5) were advanced within the release margins in an effort to determine the vertical extent of impacted soil. The soil bores were advanced in one (1) foot increments until refusal was met or field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards. In addition, seven (7) hand-augered soil bores (NH1, EH1, SH1, SH2, WH1, WH2, and WH3) were advanced within one (1) to two (2) feet of the inferred edges of the affected area in an effort to determine the horizontal extent of impacted soil. During the advancement of the hand-augered soil bores, soil samples were collected and field-screened for the presence of Volatile Organic Compounds (VOCs) utilizing olfactory/visual senses and/or concentrations of chloride utilizing a Hach Quantab ® chloride test kit.

Based on field observations and field test data, a total of 24 delineation soil samples (NH1 @ Surface, NH1 @ 1', EH1 @ Surface, EH1 @ 1', SH1 @ Surface, SH1 @ 1', SH2 @ Surface, SH2 @ 1', WH1 @ Surface, WH1 @ 1', WH2 @ Surface, WH2 @ 1', WH3 @ Surface, WH3 @ 1', V1 @ Surface, V1 @ 3'-R, V2 @ Surface, V2 @ 2'-R, V3 @ Surface, V3 @ 2'-R, V4 @ Surface, V4 @ 2'-R, V5 @ Surface, and V5 @ 2'-R) were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. BTEX concentrations were also below the NMOCD Reclamation Standard. GRO+DRO concentrations in soil samples V2 @ Surface and V2 @ 2'-R exceeded the NMOCD Closure Criterion. The TPH concentration in soil sample V2 @ 2'-R exceeded the NMOCD Closure Criterion in soil samples V1 @ Surface, V1 @ 3'-R, V2 @ Surface, and V3 @ Surface exceeded the NMOCD Reclamation Standard. Chloride concentrations in soil samples V1 @ Surface, V1 @ 3'-R, V2 @ Surface, V2 @ 2'-R, V3 @ 2'-R, V4 @ Surface, and V5 @ Surface exceeded the NMOCD Reclamation Standard.

Based on these laboratory analytical results, the horizontal extent of impacted soil was adequately defined in the areas characterized by sample points NH1, EH1, SH2, WH1, WH2, and WH3; and the vertical extent of impacted soil was adequately defined in the areas characterized by sample points V4 and V5. However, additional vertical delineation was required in the areas characterized by sample points V1, V2, and V3.

On October 4, 2023, Etech continued the site assessment. In an effort to further investigate the vertical extent of impacted soil, a backhoe was utilized to advance test trenches (SP-1, SP2, and SP3) in the areas characterized by sample points V1, V2, and V3 to total depths ranging from seven (7) feet bgs (SP2) to 11 feet bgs (SP-1 and SP3). During the advancement of the test trenches, soil samples were collected and field-screened as previously described for the presence of VOCs and/or concentrations of chloride.

Based on field observations and field test data, six (6) delineation soil samples (SP-1 @ 4', SP-1 @ 11', SP2 @ 4, SP2 @ 7, SP3 @ 4, and SP3 @ 11) were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. Based on these laboratory analytical results, the vertical extent of impacted soil was adequately defined in the areas characterized by sample points SP-1/V1, SP2/V2, and SP3/V3.

Constituent	Highest Observable Concentration	Sample ID	Sample Date	Sample Depth (ft bgs)	Soil Status
Chloride	18,800	V5 @ Surface	5/22/2023	0	In-Situ
TPH	4,680	V2 @ 2'-R	5/23/2023	2	In-Situ
GRO+DRO	3,800	V2 @ 2'-R	5/23/2023	2	In-Situ
Benzene	< 0.050	All submitted samples	5/22, 5/23 & 10/4/23	0-11	In-Situ
BTEX	<0.300	All submitted samples	5/22, 5/23 & 10/4/23	0-11	In-Situ

The locations of the soil borings and test trenches are depicted in Figure 3, "Sample Location Map". Soil chemistry data is summarized in Table 1. Field data is provided in Appendix B. General photographs of the site are provided in Appendix C. Laboratory analytical reports are provided in Appendix D.

5.0 VARIANCE REQUESTS

A review of laboratory analytical results from soil samples collected during the aforementioned site assessment and subsequent delineation events indicates that the horizontal and vertical extent of impacted soil has been adequately delineated to the Closure Criteria specified in Table I, Section 19.15.29.12 NMAC, for sites where the depth to groundwater is greater than 100 feet bgs. Based on the inferred depth to water at the site (550 feet bgs), in-situ concentrations of TPH and chloride are not believed to be a risk to the underlying groundwater. (Note: no BTEX was detected in any of the submitted soil samples.)

During the site assessment, a resilient calcrete rock layer was encountered at depths ranging from two (2) to three (3) feet bgs throughout the affected area. Based on field observations, excavation into and below this calcrete layer is impracticable without specialized heavy equipment. In addition, portions of the affected area are located within active pipeline rights-of-way (ROWs), and extensive excavation in these areas is deemed impracticable due to safety and environmental concerns associated with the presence of active buried pipelines and (potentially) overhead power lines.

Based on the information summarized above, pursuant to Section 19.15.29.14 NMAC, Etech, on behalf of Solaris, requests a variance from the requirements of Sections 19.15.29.12 C.(3) and 19.15.29.13 D.(1) NMAC to (a) limit the vertical excavation of impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards to the surface of the calcrete rock layer (approximately 2 to 3 feet bgs) and (b) leave impacted soil within and below the calcrete layer in-situ.

A variance is also requested for an alternative sampling plan comprised of five-point composite confirmation samples collected from the excavated area at intervals representing no more than 400 square feet. Solaris believes that a relaxation of sampling frequency is permissible given the size and nature of the release, the lack of variability in surface topography, the relatively shallow depths of contaminant intrusion, and the comparatively difficult task of collecting samples of adequate volume from resilient calcrete (i.e., versus sampling sand or soil).

Based on the size of the affected area (approximately 85,823 square feet), an anticipated total of approximately 215 confirmation soil samples will be collected from the floor of the excavated area under the proposed alternative sampling plan, as opposed to approximately 430 samples under a standard 200-square-foot plan. This equates to an average of approximately 20 feet linear feet between soil samples, as illustrated in Figure 4, "Proposed Sampling Plan Map". The map demonstrates that there is a nominal difference between the requested sampling plan and the standard 200-square-foot plan. As such, Solaris affirms that the proposed sampling plan provides an equal protection of fresh water, public health, and the environment, pursuant to Section 19.15.29.14 A.(2) NMAC.

Composite confirmation samples will be collected from the sidewalls of the excavated area at approximately 100-foot linear intervals, for an anticipated total of approximately 85 samples, based on the perimeter of the inferred affected area (approximately 8,508 feet). The composite wall and floor confirmation soil samples will include wet and/or visibly stained areas, from which additional discrete samples will also be collected, as necessary.

Please note that the actual number of confirmation soil samples collected from the excavated area will be determined by the final dimensions of the excavation.

6.0 PROPOSED REMEDIATION PLAN

Requesting a remediation plan approval with this submission?	X Yes No
Requesting a deferral of remediation closure due date with the approval of this submission?	Yes X No
Requesting a remediation closure approval with this submission?	Yes X No
Have the lateral and vertical extents of contamination been fully delineated?	X Yes No
Was this release entirely contained within a lined containment area?	Yes X No
On what estimated date did, or will, the remediation commence?	4/1/2024
On what date will (or was) the remediation complete(d)?	To Be Determined
What was the total surface area (sq. ft.) that has or will be remediated?	85,823
What was the total volume (cy) that has or will be remediated?	7,947
This remediation utilized the following processes to remediate/reduce contaminants:	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	X Yes No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Yes X No
(In Situ) Soil Vapor Extraction	Yes X No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Yes X No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Yes X No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Yes X No
Ground Water Abatement pursuant to 19.15.30 NMAC	Yes X No
Other (Non-listed remedial process)	Yes X No
Which OCD approved facility was or will be used for off-site disposal?	R360 Halfway Facility
NMOCD Disposal Facility ID?	fEEM0112334510
Summarize any additional remediation activities not included by answers above.	See below

Based on laboratory analytical results, site characteristics, and field observations made during the initial site assessment and subsequent delineation events, Solaris proposes the following remediation activities designed to advance the Urraca Booster Pump release site toward regulatory-approved closure:

- Utilizing mechanical equipment, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards will be excavated and stockpiled on-site on impermeable plastic, pending final disposition. A chloride field test kit and/or olfactory/visual senses will be utilized to field-screen the extent of impacted soil and to guide the excavation.
- The sidewalls of the excavation will be advanced horizontally until field tests and field observations suggest BTEX, TPH, and chloride concentrations are below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards. The excavation will be advanced vertically to the surface of the resilient calcrete rock layer underlying the site at approximately two (2) to three (3) feet bgs.
- Impacted soil within affected pipeline ROWs will be excavated to the maximum extent practicable.
- Upon completion of excavation activities, representative five-point composite confirmation soil samples will be collected from the sidewalls and floors of the excavated area as described in Section 5.0 above.
- Upon receiving laboratory analytical results from excavation confirmation soil samples, the excavated areas will be backfilled with locally sourced, non-impacted, "like" material.

- The approximate 7,947 cubic yards (yd³) of impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards expected to be excavated will be transported to an NMOCD-permitted surface waste facility for disposal.
- Upon completion of remediation activities, a *Remediation Summary & Soil Closure Request* will be prepared detailing field activities and laboratory analytical results from confirmation soil samples.

7.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

All areas not reasonably needed for production or subsequent drilling operations have been reclaimed	
to contain a minimum of four feet of non-waste containing earthen material with concentrations of less	Yes X No
than 600 mg/kg chloride, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg benzene?	
What is the total surface area (sq. ft.) that will <i>eventually</i> be reclaimed?	85,823
What is the total volume (cy) that will <i>eventually</i> be reclaimed?	7,947

Upon receiving laboratory analytical results from confirmation soil samples, excavated areas will be backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area will be compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture free of noxious weeds during the first favorable growing season following closure of the site.

8.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Site Assessment Summary & Variance Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Solaris Water Midstream, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or Solaris Water Midstream, LLC.

9.0 DISTRIBUTION

Solaris Water Midstream, LLC 907 Tradewinds Blvd Ste B Midland, TX 79706

New Mexico Energy, Minerals and Natural Resources Department

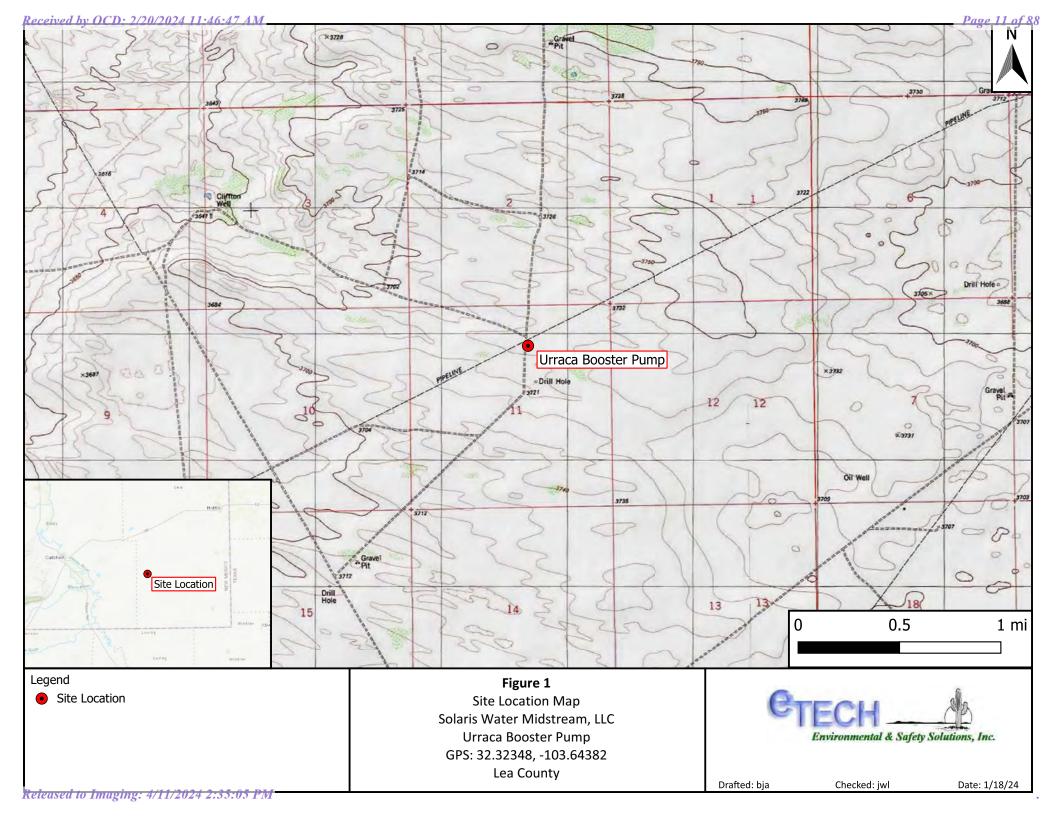
Oil Conservation Division, District 1 1220 South St. Francis Drive Santa Fe, NM 87505

United States Department of the Interior

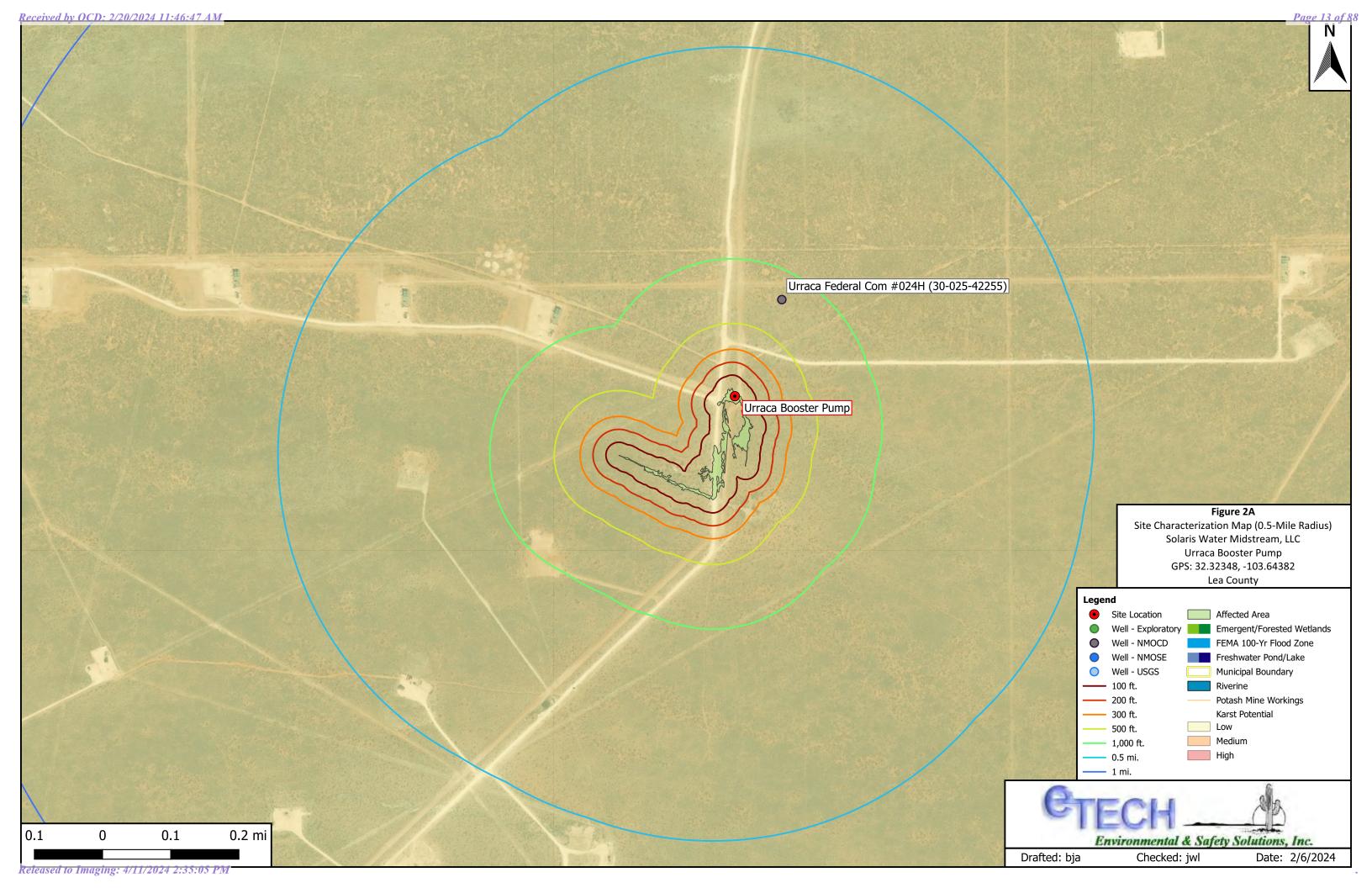
Bureau of Land Management 620 E. Greene Street Carlsbad, NM 88220

(Electronic Submission)

Figure 1 Site Location Map



Figures 2A & 2B Site Characterization Maps



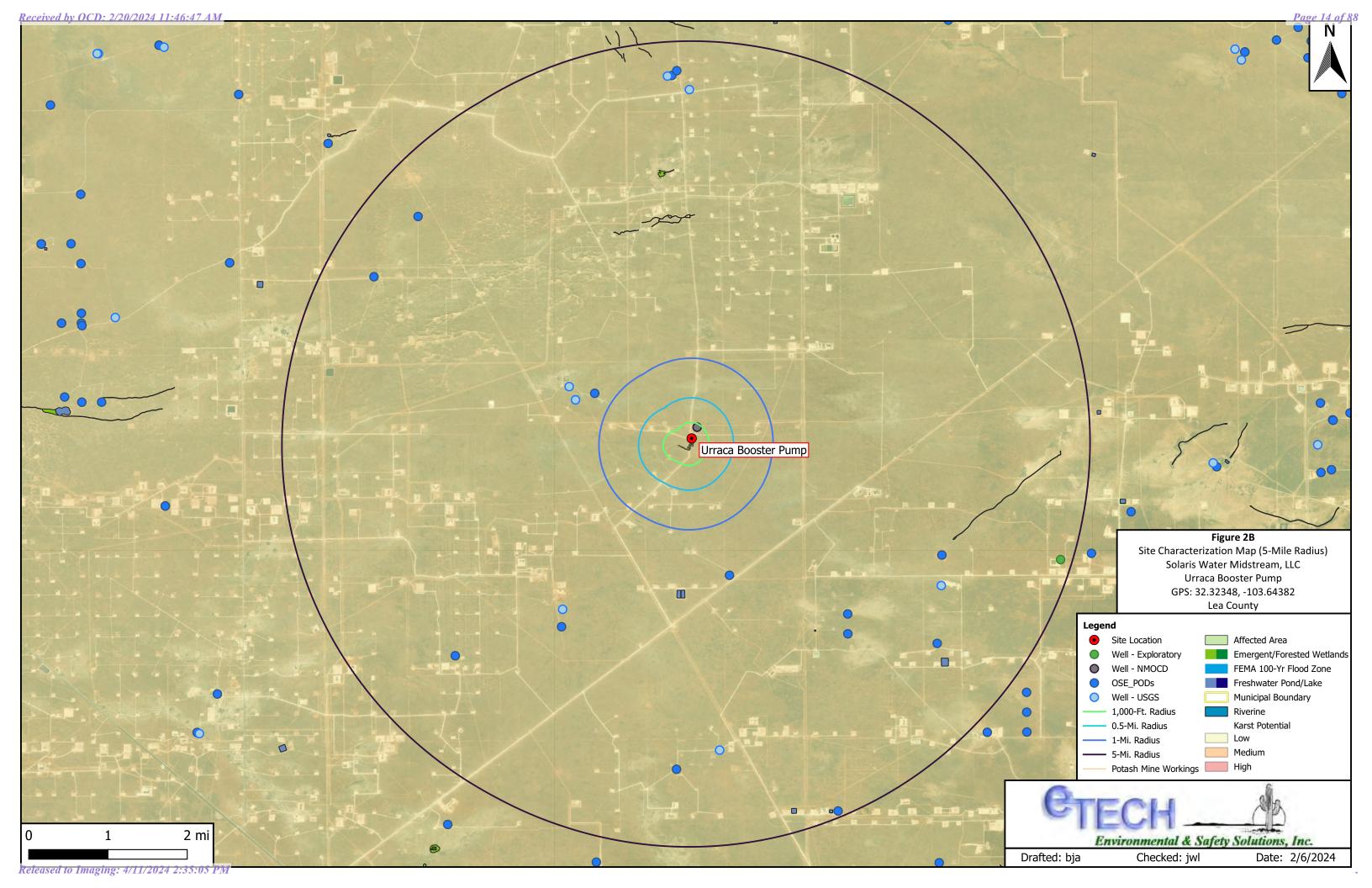


Figure 3 Sample Location Map

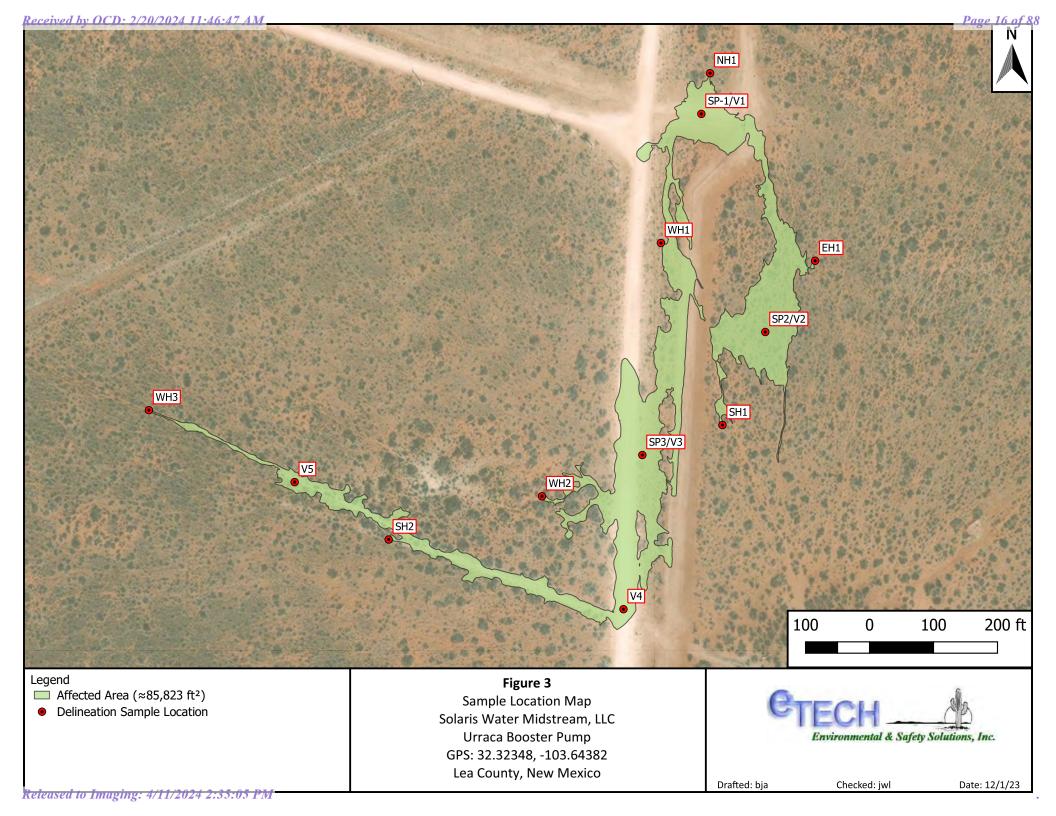


Figure 4 Proposed Sampling Plan Map

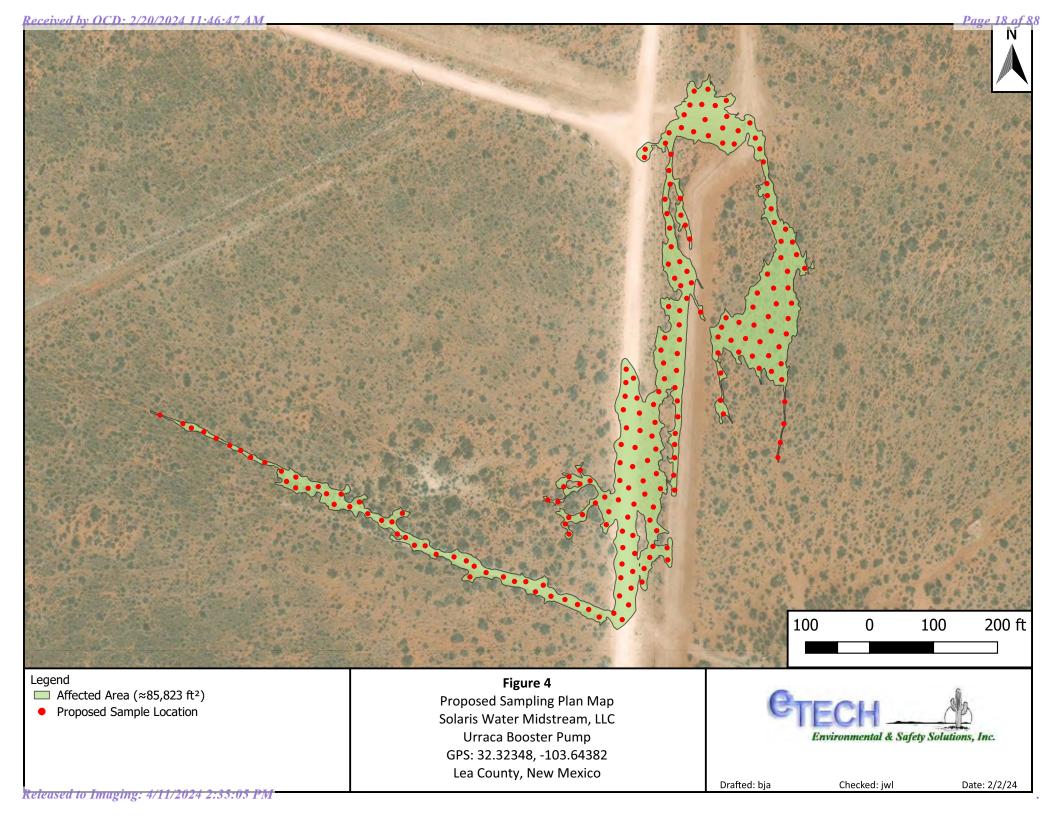
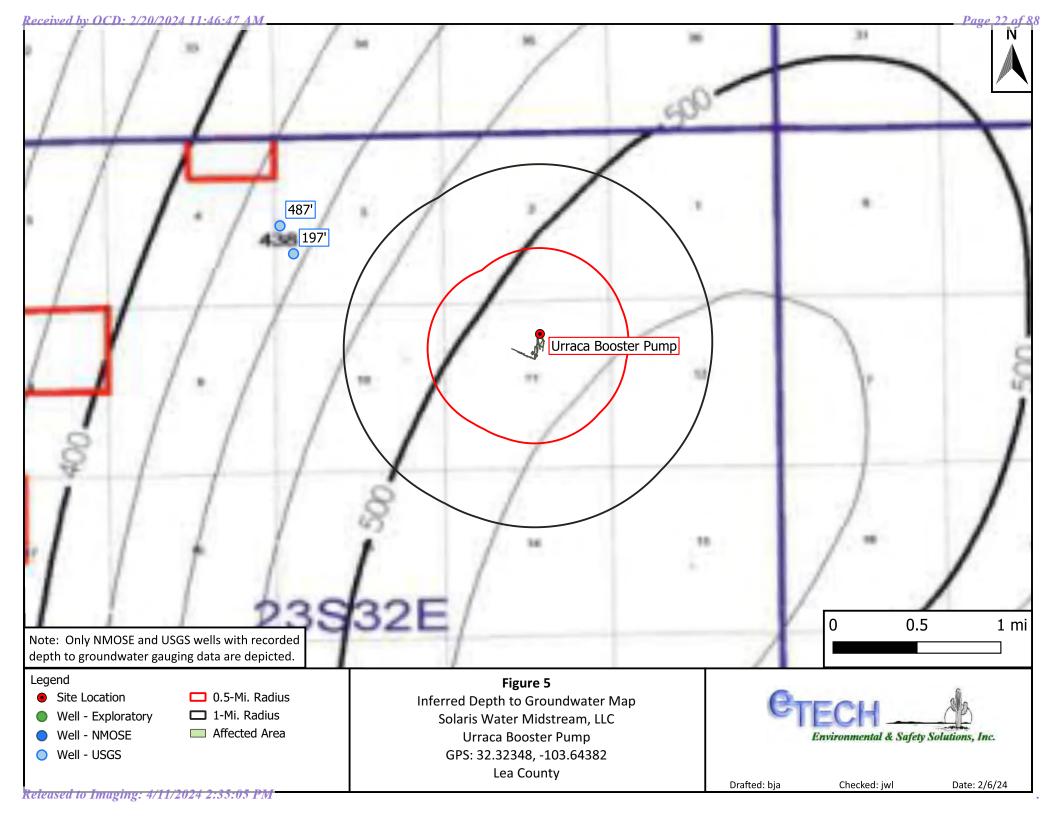


Table 1 Concentrations of BTEX, TPH & Chloride in Soil

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Solaris Water Midstream, LLC Urraca Booster Pump NMOCD Ref. #: nAPP2310130251

NMOC	10	50	N/A	N/A	1,000	N/A	2,500	20,000			
NMOCD I	10	50	N/A	N/A	N/A	N/A	100	600			
				SW 840	6 8021B		SW	846 8015M	Ext.		4500 Cl
Sample ID	Date	Depth (Feet)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
NH1 @ Surface	5/22/2023	0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH1 @ 1'	5/22/2023	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EH1 @ Surface	5/22/2023	0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
EH1 @ 1'	5/22/2023	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH1 @ Surface	5/22/2023	0	In-Situ	< 0.050	< 0.300	<10.0	13.2	13.2	<10.0	13.2	32.0
SH1 @ 1'	5/22/2023	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SH2 @ Surface	5/22/2023	0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH2 @ 1'	5/22/2023	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH1 @ Surface	5/22/2023	0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WH1 @ 1'	5/22/2023	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH2 @ Surface	5/22/2023	0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH2 @ 1'	5/22/2023	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH3 @ Surface	5/22/2023	0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH3 @ 1'	5/22/2023	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
V1 @ Surface	5/22/2023	0	In-Situ	< 0.050	< 0.300	<10.0	765	765	156	921	6,000
V1 @ 3'-R	5/23/2023	3	In-Situ	< 0.050	< 0.300	<10.0	83.5	83.5	18.0	102	1,410
SP-1 @ 4'	10/4/2023	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,080
SP-1 @ 11'	10/4/2023	11	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	896
V2 @ Surface	5/22/2023	0	In-Situ	< 0.050	< 0.300	14.2	1,600	1,610	360	1,970	5,520
V2 @ 2'-R	5/23/2023	2	In-Situ	< 0.050	< 0.300	12.3	3,790	3,800	875	4,680	4,880
SP2 @ 4	10/4/2023	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,200
SP2 @ 7	10/4/2023	7	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
V3 @ Surface	5/23/2023	0	In-Situ	< 0.050	< 0.300	<10.0	295	295	89.3	384	320
V3 @ 2'-R	5/23/2023	2	In-Situ	< 0.050	< 0.300	<10.0	74.0	74.0	13.6	87.6	7,800
SP3 @ 4	10/4/2023	4	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,360
SP3 @ 11	10/4/2023	11	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
V4 @ Surface	5/22/2023	0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	12,400
V4 @ 2'-R	5/22/2023	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
V5 @ Surface	5/22/2023	0	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	18,800
V5 @ 2'-R	5/22/2023	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112

Appendix A Depth to Groundwater Information



Application to Drill Urraca Federal Com 24H Cimarex Energy Co. UL: B, Sec. 11, 23S, 32E Lea Co., NM

Extracted from the "Application for Permit to Drill or Reenter" for NMOCD Well #30-025-42255, dated February 26, 2014.

In response to questions asked under Section II B of Bulletin NTL-6, the following information is provided for your consideration:

1. Location:

SHL 330' FNL 1750' FEL

BHL 330' FSL 1325' FEL

2. Elevation Above Sea Level: 3,724' GR

3. Geologic Name of Surface Formation: Quaternary Alluvium Deposits

4. Drilling Tools and Associated Equipment: Conventional rotary drilling rig using fluid as a circulating medium for solids removal

5. Proposed Drilling Depth: 14,138 MD 9,700 TVD Pilot Hole TD: N/A

6. Estimated Tops of Geological Markers:

Formation	Est Top	Bearing
Rustler		1180. N/A
Salt	 	1410 N/A
Castille		3550 N/A
Base Last Salt	د سند . داد	4635! N/A
Lamar		49001 N/A
Bell Canyon	-	4955 N/A
Cherry Canyon		5865 N/A
Brushy Canyon		7150 Hydrocarbons
Bone Spring	1	8800 Hydrocarbons
Avalon Shale		9330 Hydrocarbons

7. Possible Mineral Bearing Formation: Shown above

7A. OSE Ground Water Estimated Depth: 550'

8. Casing Program:

	Уаше	Casing Depth From (ft)	Casing Setting Depth (ft) MD	Casing Setting Depth (ft)TVD	Open Hole Size (inches)	Casing Size (inches)	Casing Weight (Ib/ft)	Casing Grade	Thread	Conditon	BHP (psig)	Anticipated Mud Weight (ppg)	Collapse SF at Full Evacuation(1.125)	Collapse SF at 1/3 Evacuation(1.125)	Burst SF (1.125)	Cumulative Air Weight	Cumulative Bouyed Weight (Ibs)	Bouyant Tension SF (1.8)
	Surface	0	1230	1230	17 1/2	13-3/8"	48.00	H-40	ST&C	New	530	8.3.	1.39		3.26	59,040	51,559	6.25
- 1	Intermediate	0	4920	4920	12 1/4	9-5/8"	40.00	J-55	LT&C	New	2558	10.0		1.53	1.54	196,800	166,754	3.12
- 1	Production	0	9223 ·	9223	8 3/4	5-1/2"	17.00	L-80	LT&C	New	4316	9.0	1.46		1.79	164,900	142,242	2.38
۱	Production	9223	14138	9700	8 3/4	5-1/2"	17.00	L-80	BT&C	New	4539	9.0	1.39	1	1.71	8,109	6,995	56.76

Note: Operator may drill a 8-1/2" OH from end of curve to TD of the well. This is to reduce the need to ream the conventionally drilled curve to run a RSS assembly into the lateral.





New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned,

C=the file is (quarters are 1=NW 2=NE 3=SW 4=SE)

C=the file is (quarters are smallest to closed) (quarters are smallest to

largest) (NAD83 UTM in meters) (In feet)

 POD

 Sub Q Q Q
 Water

 POD Number
 Code
 basin County 6416 4 Sec Tws Rng
 X
 Y
 DistanceDepthWellDepthWaterColumn

 C 02349
 CUB
 ED
 2 3 03 23S 32E 625678 3578004*
 2171 525

Average Depth to Water:

Minimum Depth:

Maximum Depth: --

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 627651.81 Northing (Y): 3577099.81 Radius: 3220

*UTM location was derived from PLSS - see Help

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

11/30/23 6:24 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tv

Q64 Q16 Q4 Sec Tws Rng

X Y

C 02349 2 3 03 23S 32E

625678 3578004*

*

Driller License: Driller Company:

Driller Name:

Drill Start Date: 04/14/1930 Drill Finish Date: 04/14/1930 Plug Date:
Log File Date: PCW Rcv Date: Source:

Pump Type: Pipe Discharge Size: Estimated Yield: 5 GPM

Casing Size: 8.00 Depth Well: 525 feet Depth Water:

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

4/13/23 9:04 AM

POINT OF DIVERSION SUMMARY

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



New Mexico Office of the State Engineer

Transaction Summary

DCL Declaration of a Water Right

Transaction Number: 154820 Transaction Desc: C 02349 File Date: 09/09/1998

Primary Status: DCL Declared
Secondary Status: PRC Processed

Person Assigned: ******

Applicant: CHARLES F. JAMES

Events

DateTypeDescriptionCommentProcessed By09/09/1998APPApplication Received*******

09/09/1998 FTN Finalize non-published Trans.

Water Right Information

WR File Nbr Acres Diversion Consumptive Purpose of Use

C 02349 0 3 STK 72-12-1 LIVESTOCK WATERING

**Point of Diversion

C 02349 625678 3578004*

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

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

4/13/23 9:03 AM TRANSACTION SUMMARY



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Groundwater levels for the Nation

Table of data Tab-separated data

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 321950103400601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321950103400601 23S.32E.03.31110

Lea County, New Mexico Latitude 32°19'50", Longitude 103°40'06" NAD27 Land-surface elevation 3,668 feet above NAVD88 This well is completed in the Other aquifers (N9999OTHER) national aquifer. This well is completed in the Chinle Formation (231CHNL) local aquifer.

	Out	put	form	ats
--	-----	-----	------	-----

<u>Graph of data</u>	iph of data														
Reselect period	elect period														
Date \$	Time \$? Water- level	? Parameter ≎ code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical \$\datum\$? Status	? Method of measurement	? Measuring \$\frac{1}{2}\$ agency	? Source of measurement	? Water- level approval status				
1972-09-13		D	72019	204.18			1	Z			А				
1977-03-10		D	72019	213.85			1	Z			А				
1981-03-26		D	72019	197.34			1	Z			А				
1986-04-16		D	72019	196.65			1	Z			А				

Explanation

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

Questions or Comments Automated retrievals <u>Help</u> Data Tips Explanation of terms Subscribe for system changes **News**

Accessibility

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Title: Groundwater for USA: Water Levels

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

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2023-11-30 20:21:28 EST

0.35 0.25 nadww01





0

Click forNews Bulletins

Groundwater levels for the Nation

■ Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 321952103400801

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321952103400801 23S.32E.03.311114

Lea County, New Mexico
Latitude 32°19'59.2", Longitude 103°40'12.6" NAD83
Land-surface elevation 3,648.00 feet above NGVD29
The depth of the well is 630 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

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

Date \$	Time \$? Water-level \$ date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above \$ specific vertical datum	Referenced vertical \$ datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1976-12-09		D	72019	420.57			1	Z			Α
1981-03-26		D	72019	438.34			Р	Z			А
1981-05-21		D	72019	437.67			1	Z			А
1986-04-17		D	72019	438.68			1	Z			А
1991-05-30		D	72019	437.93			1	Z			А
1992-11-05		D	72019	438.12			1	S			А

Date \$	Time \$? Water- level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above \$ specific vertical datum	Referenced vertical \$\phi\$ datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status	\$
1996-03-15		D	72019	437.82			1	S				Α
2013-01-17	01:00 UTC	m	72019	486.60			Р	S	USGS	S		Α

Explanation

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

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Title: Groundwater for USA: Water Levels

 $\label{lem:url:lem:u$

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

Page Last Modified: 2023-11-30 20:22:16 EST

0.31 0.24 nadww01

USA.gov

Appendix B Field Data



Sample Log

	100
Date:	10%
Ducc.	6-66

Droi	
PIO	ect:

Project Number: _____Latitude: _____Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
SP#1. 6) Surface	_	5904	
SP#1. @ 1F1	-	2,588	
SPHI. @ 2Ft		2588	
SP#1. @ 3Ft	-	2400	
SP#1, @ 4F1		1816	
SP#1.60 SFt	-	900	
SP#1. @ GF1	2	2400 -	
SP#1.007F1	_	2400 — 2588	
SP#1.6 8F1	-	3680	
SP#1. @ 9F1	-	900	
SP#1.60 10Ft -	-	908	
SP#1. 6011F1 SP#1. 6012F1	-	908	
SP#1. @ 12Ft	-	708	
SPZ & SUr	-	900	
LP2 A 1	-	3,768	
SPZ @ Z	•	मंज व 8	
SP2@ 2 SP2@ 3	-	3,388	
SP2@ 4 SP2@ 5		2.232	
SP2@5	-	1.292	
5 P Z Q & S P Z & P Z	-	1,124	
512 67	-	248	
Sr2 @8	-	198	
513 C Sur	-	718	
SP3 @ 1	-	2588	
513@ Z	-	2400	
51363	-	2400	
81364	-	2232	
SP3@5	_	02588	
51306		2400	
513@7	-	1,816	
61368	_	1,292	
51369	_	7.588	
5P3 e10	-	768	
SP3e11	-	280	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples= SP #1 @ 5b or SW #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

Appendix C Photographic Log

Photographic Log

Photo Number:

1

Photo Direction:

West-Northwest

Photo Description:

Point of release.



Photo Number:

2

Photo Direction:

West-Southwest

Photo Description:

View of the affected area.



Photographic Log

Photo Number:

3
Photo Direction:
North
Photo Description:

View of the affected area.

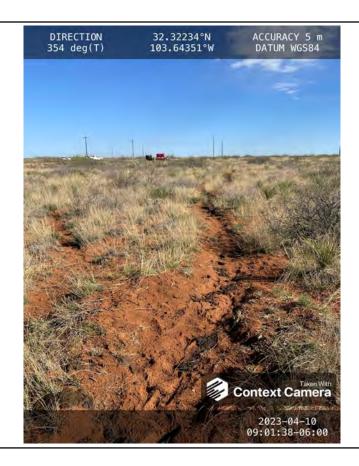


Photo Number:
4
Photo Direction:
North

Photo Description:

View of the affected area.

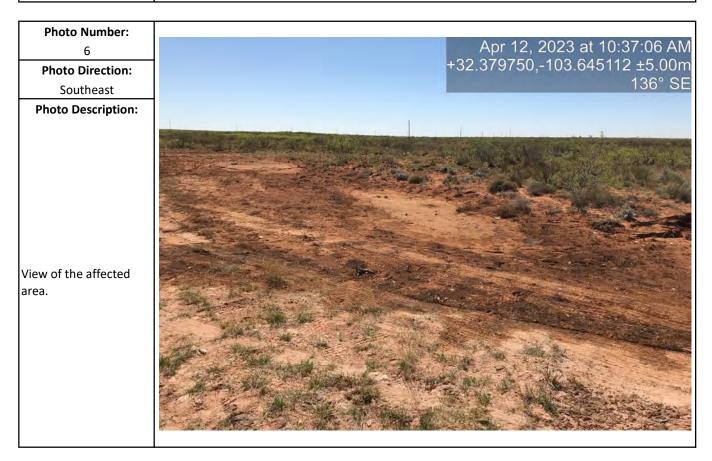


Photographic Log

Photo Number:
5
Photo Direction:
North-Northwest
Photo Description:

View of the affected area.





Photographic Log

Photo Number:
7
Photo Direction:
East
Photo Description:

View of the affected area.



Photo Number:

Photo Direction:North-Northeast

Photo Description:

View of the affected area.



Photographic Log

Photo Number:
9
Photo Direction:
West-Northwest
Photo Description:

View of the affected area.



Photo Number: 10

Photo Direction: East-Southeast

Photo Description:

View of the affected area.



Photographic Log

Photo Number: 11 Photo Direction:

West-Northwest

Photo Description:

View of the affected area.



Photo Number: 12

Photo Direction:

East

Photo Description:

View of the affected area.



Appendix D Laboratory Analytical Reports



May 30, 2023

JOEL LOWRY
Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS, NM 88240

RE: URRACA BOOSTER PUMP

Enclosed are the results of analyses for samples received by the laboratory on 05/25/23 13:10.

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

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 05/25/2023 Sampling Date: 05/22/2023 Reported: 05/30/2023 Sampling Type: Soil

Project Name: URRACA BOOSTER PUMP Sampling Condition: Cool & Intact
Project Number: 17918 Sample Received By: Tamara Oldaker

Project Location: SOLARIS - RURAL LEA CO., NM

Sample ID: NH 1 @ SURFACE (H232668-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2023	ND	2.10	105	2.00	3.02	
Toluene*	<0.050	0.050	05/25/2023	ND	2.04	102	2.00	1.04	
Ethylbenzene*	<0.050	0.050	05/25/2023	ND	2.13	106	2.00	1.54	
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.33	106	6.00	3.29	
Total BTEX	<0.300	0.300	05/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/25/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2023	ND	189	94.5	200	2.28	
DRO >C10-C28*	<10.0	10.0	05/25/2023	ND	207	103	200	8.25	
EXT DRO >C28-C36	<10.0	10.0	05/25/2023	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celeg & Freene



Tamara Oldaker

Sample Received By:

Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 05/25/2023 Sampling Date: 05/22/2023

Reported: 05/30/2023 Sampling Type: Soil
Project Name: URRACA BOOSTER PUMP Sampling Condition: Cool & Intact

Project Number: 17918

Project Location: SOLARIS - RURAL LEA CO., NM

Sample ID: NH 1 @ 1' (H232668-02)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2023	ND	2.10	105	2.00	3.02	
Toluene*	<0.050	0.050	05/25/2023	ND	2.04	102	2.00	1.04	
Ethylbenzene*	<0.050	0.050	05/25/2023	ND	2.13	106	2.00	1.54	
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.33	106	6.00	3.29	
Total BTEX	<0.300	0.300	05/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/25/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2023	ND	189	94.5	200	2.28	
DRO >C10-C28*	<10.0	10.0	05/25/2023	ND	207	103	200	8.25	
EXT DRO >C28-C36	<10.0	10.0	05/25/2023	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

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Celey D. Keine



Tamara Oldaker

Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 05/25/2023 Sampling Date: 05/22/2023

Reported: 05/30/2023 Sampling Type: Soil
Project Name: URRACA BOOSTER PUMP Sampling Condition: Cool & Intact

Project Name: URRACA BOOSTER PUMP Sampling Condition:
Project Number: 17918 Sample Received By:

SOLARIS - RURAL LEA CO., NM

Sample ID: EH 1 @ SURFACE (H232668-03)

Project Location:

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2023	ND	2.10	105	2.00	3.02	
Toluene*	<0.050	0.050	05/25/2023	ND	2.04	102	2.00	1.04	
Ethylbenzene*	<0.050	0.050	05/25/2023	ND	2.13	106	2.00	1.54	
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.33	106	6.00	3.29	
Total BTEX	<0.300	0.300	05/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/25/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2023	ND	189	94.5	200	2.28	
DRO >C10-C28*	<10.0	10.0	05/25/2023	ND	207	103	200	8.25	
EXT DRO >C28-C36	<10.0	10.0	05/25/2023	ND					
Surrogate: 1-Chlorooctane	97.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 05/25/2023 Sampling Date: 05/22/2023

Reported: 05/30/2023 Sampling Type: Soil

Project Name: URRACA BOOSTER PUMP Sampling Condition: Cool & Intact
Project Number: 17918 Sample Received By: Tamara Oldaker

Project Location: SOLARIS - RURAL LEA CO., NM

Sample ID: EH 1 @ 1' (H232668-04)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2023	ND	2.10	105	2.00	3.02	
Toluene*	<0.050	0.050	05/25/2023	ND	2.04	102	2.00	1.04	
Ethylbenzene*	<0.050	0.050	05/25/2023	ND	2.13	106	2.00	1.54	
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.33	106	6.00	3.29	
Total BTEX	<0.300	0.300	05/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/25/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2023	ND	189	94.5	200	2.28	
DRO >C10-C28*	<10.0	10.0	05/25/2023	ND	207	103	200	8.25	
EXT DRO >C28-C36	<10.0	10.0	05/25/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117	% 49.1-14	18						

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Celeg D. Frene



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 05/25/2023 Reported: 05/30/2023

05/30/2023 Sam URRACA BOOSTER PUMP Sam

Project Name: URRAC Project Number: 17918

Project Location: SOLARIS - RURAL LEA CO., NM

Sampling Date: 05/22/2023

Sampling Type: Soil

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

Sample ID: SH 1 @ SURFACE (H232668-05)

BTEX 8021B	mg/	kg	Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2023	ND	2.10	105	2.00	3.02	
Toluene*	<0.050	0.050	05/25/2023	ND	2.04	102	2.00	1.04	
Ethylbenzene*	<0.050	0.050	05/25/2023	ND	2.13	106	2.00	1.54	
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.33	106	6.00	3.29	
Total BTEX	<0.300	0.300	05/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	6 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/25/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2023	ND	189	94.5	200	2.28	
DRO >C10-C28*	13.2	10.0	05/25/2023	ND	207	103	200	8.25	
EXT DRO >C28-C36	<10.0	10.0	05/25/2023	ND					
Surrogate: 1-Chlorooctane	101 9	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	6 49.1-14	8						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Analyzed By: JH/

05/25/2023

Sampling Date:

05/22/2023

Reported: Project Name:

Received:

BTEX 8021B

05/30/2023

Sampling Type:

Soil Cool & Intact

Project Name.

URRACA BOOSTER PUMP

mg/kg

Sampling Condition: Sample Received By:

Tamara Oldaker

Project Number:

17918

Project Location: SOLARIS - RURAL LEA CO., NM

Sample ID: SH 1 @ 1' (H232668-06)

DIEX GOZID	1119/	- Kg	Allulyzo	u by. 311/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2023	ND	2.10	105	2.00	3.02	
Toluene*	<0.050	0.050	05/25/2023	ND	2.04	102	2.00	1.04	
Ethylbenzene*	<0.050	0.050	05/25/2023	ND	2.13	106	2.00	1.54	
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.33	106	6.00	3.29	
Total BTEX	<0.300	0.300	05/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/25/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2023	ND	189	94.5	200	2.28	
DRO >C10-C28*	<10.0	10.0	05/25/2023	ND	207	103	200	8.25	
EXT DRO >C28-C36	<10.0	10.0	05/25/2023	ND					
Surrogate: 1-Chlorooctane	98.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 05/25/2023 Reported: 05/30/2023

URRACA BOOSTER PUMP

Project Name: URRAC Project Number: 17918

Project Location: SOLARIS - RURAL LEA CO., NM

Sampling Date: 05/22/2023

Sampling Type: Soil

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

Sample ID: SH 2 @ SURFACE (H232668-07)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2023	ND	2.10	105	2.00	3.02	
Toluene*	<0.050	0.050	05/25/2023	ND	2.04	102	2.00	1.04	
Ethylbenzene*	<0.050	0.050	05/25/2023	ND	2.13	106	2.00	1.54	
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.33	106	6.00	3.29	
Total BTEX	<0.300	0.300	05/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/25/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2023	ND	189	94.5	200	2.28	
DRO >C10-C28*	<10.0	10.0	05/25/2023	ND	207	103	200	8.25	
EXT DRO >C28-C36	<10.0	10.0	05/25/2023	ND					
Surrogate: 1-Chlorooctane	97.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	18						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 05/25/2023 Sampling Date: 05/22/2023

Reported: 05/30/2023 Sampling Type: Soil

Project Name: URRACA BOOSTER PUMP Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 17918 Sample Received By:

Project Location: SOLARIS - RURAL LEA CO., NM

Sample ID: SH 2 @ 1' (H232668-08)

BTEX 8021B	mg/	'kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2023	ND	2.21	111	2.00	2.06	
Toluene*	<0.050	0.050	05/25/2023	ND	2.17	108	2.00	2.79	
Ethylbenzene*	<0.050	0.050	05/25/2023	ND	2.11	106	2.00	1.78	
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.41	107	6.00	1.54	
Total BTEX	<0.300	0.300	05/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/25/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2023	ND	189	94.5	200	2.28	
DRO >C10-C28*	<10.0	10.0	05/25/2023	ND	207	103	200	8.25	
EXT DRO >C28-C36	<10.0	10.0	05/25/2023	ND					
Surrogate: 1-Chlorooctane	92.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

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Tamara Oldaker

Sample Received By:

Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 05/25/2023 Sampling Date: 05/22/2023

Reported: 05/30/2023 Sampling Type: Soil Project Name: URRACA BOOSTER PUMP Sampling Condition: Cool & Intact

Project Number: 17918

Project Location: SOLARIS - RURAL LEA CO., NM

Sample ID: WH 1 @ SURFACE (H232668-09)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2023	ND	2.21	111	2.00	2.06	
Toluene*	<0.050	0.050	05/25/2023	ND	2.17	108	2.00	2.79	
Ethylbenzene*	<0.050	0.050	05/25/2023	ND	2.11	106	2.00	1.78	
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.41	107	6.00	1.54	
Total BTEX	<0.300	0.300	05/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/25/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2023	ND	189	94.5	200	2.28	
DRO >C10-C28*	<10.0	10.0	05/25/2023	ND	207	103	200	8.25	
EXT DRO >C28-C36	<10.0	10.0	05/25/2023	ND					
Surrogate: 1-Chlorooctane	95.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 05/25/2023 Sampling Date: 05/22/2023

Reported: 05/30/2023 Sampling Type: Soil

Project Name: URRACA BOOSTER PUMP Sampling Condition: Cool & Intact
Project Number: 17918 Sample Received By: Tamara Oldaker

Project Location: SOLARIS - RURAL LEA CO., NM

Sample ID: WH 1 @ 1' (H232668-10)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2023	ND	2.21	111	2.00	2.06	
Toluene*	<0.050	0.050	05/25/2023	ND	2.17	108	2.00	2.79	
Ethylbenzene*	< 0.050	0.050	05/25/2023	ND	2.11	106	2.00	1.78	
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.41	107	6.00	1.54	
Total BTEX	<0.300	0.300	05/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/25/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2023	ND	189	94.5	200	2.28	
DRO >C10-C28*	<10.0	10.0	05/25/2023	ND	207	103	200	8.25	
EXT DRO >C28-C36	<10.0	10.0	05/25/2023	ND					
Surrogate: 1-Chlorooctane	93.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111	% 49.1-14	8						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 05/25/2023 Sampling Date: 05/22/2023

Reported: 05/30/2023 Sampling Type: Soil

Project Name: URRACA BOOSTER PUMP Sampling Condition: Cool & Intact
Project Number: 17918 Sample Received By: Tamara Oldaker

Project Location: SOLARIS - RURAL LEA CO., NM

Sample ID: WH 2 @ SURFACE (H232668-11)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2023	ND	2.21	111	2.00	2.06	
Toluene*	<0.050	0.050	05/25/2023	ND	2.17	108	2.00	2.79	
Ethylbenzene*	<0.050	0.050	05/25/2023	ND	2.11	106	2.00	1.78	
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.41	107	6.00	1.54	
Total BTEX	<0.300	0.300	05/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/25/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2023	ND	189	94.5	200	2.28	
DRO >C10-C28*	<10.0	10.0	05/25/2023	ND	207	103	200	8.25	
EXT DRO >C28-C36	<10.0	10.0	05/25/2023	ND					
Surrogate: 1-Chlorooctane	98.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 05/25/2023 Sampling Date: 05/22/2023

Reported: 05/30/2023 Sampling Type: Soil

Project Name: URRACA BOOSTER PUMP Sampling Condition: Cool & Intact
Project Number: 17918 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: SOLARIS - RURAL LEA CO., NM

ma/ka

Sample ID: WH 2 @ 1' (H232668-12)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2023	ND	2.21	111	2.00	2.06	
Toluene*	<0.050	0.050	05/25/2023	ND	2.17	108	2.00	2.79	
Ethylbenzene*	<0.050	0.050	05/25/2023	ND	2.11	106	2.00	1.78	
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.41	107	6.00	1.54	
Total BTEX	<0.300	0.300	05/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/25/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2023	ND	189	94.5	200	2.28	
DRO >C10-C28*	<10.0	10.0	05/25/2023	ND	207	103	200	8.25	
EXT DRO >C28-C36	<10.0	10.0	05/25/2023	ND					
Surrogate: 1-Chlorooctane	95.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110	% 49.1-14	8						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 05/25/2023 Sampling Date: 05/22/2023

Reported: 05/30/2023 Sampling Type: Soil

Project Name: URRACA BOOSTER PUMP Sampling Condition: Cool & Intact Project Number: 17918 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: SOLARIS - RURAL LEA CO., NM

Sample ID: V 1 @ SURFACE (H232668-13)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2023	ND	2.21	111	2.00	2.06	
Toluene*	<0.050	0.050	05/25/2023	ND	2.17	108	2.00	2.79	
Ethylbenzene*	<0.050	0.050	05/25/2023	ND	2.11	106	2.00	1.78	
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.41	107	6.00	1.54	
Total BTEX	<0.300	0.300	05/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	05/25/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2023	ND	189	94.5	200	2.28	
DRO >C10-C28*	765	10.0	05/25/2023	ND	207	103	200	8.25	
EXT DRO >C28-C36	156	10.0	05/25/2023	ND					
Surrogate: 1-Chlorooctane	88.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Applyzod By: 14

Fax To:

Received: 05/25/2023 Sampling Date: 05/23/2023

Reported: 05/30/2023 Sampling Type: Soil

Project Name: URRACA BOOSTER PUMP Sampling Condition: Cool & Intact
Project Number: 17918 Sample Received By: Tamara Oldaker

Project Location: SOLARIS - RURAL LEA CO., NM

Sample ID: V 1 @ 3' - R (H232668-14)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2023	ND	2.21	111	2.00	2.06	
Toluene*	<0.050	0.050	05/25/2023	ND	2.17	108	2.00	2.79	
Ethylbenzene*	<0.050	0.050	05/25/2023	ND	2.11	106	2.00	1.78	
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.41	107	6.00	1.54	
Total BTEX	<0.300	0.300	05/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	05/25/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2023	ND	189	94.5	200	2.28	
DRO >C10-C28*	83.5	10.0	05/26/2023	ND	207	103	200	8.25	
EXT DRO >C28-C36	18.0	10.0	05/26/2023	ND					
Surrogate: 1-Chlorooctane	87.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 05/25/2023 Sampling Date: 05/22/2023

Reported: 05/30/2023 Sampling Type: Soil

Project Name: URRACA BOOSTER PUMP Sampling Condition: Cool & Intact
Project Number: 17918 Sample Received By: Tamara Oldaker

Project Location: SOLARIS - RURAL LEA CO., NM

Sample ID: V 2 @ SURFACE (H232668-15)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2023	ND	2.21	111	2.00	2.06	
Toluene*	<0.050	0.050	05/25/2023	ND	2.17	108	2.00	2.79	
Ethylbenzene*	<0.050	0.050	05/25/2023	ND	2.11	106	2.00	1.78	
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.41	107	6.00	1.54	
Total BTEX	<0.300	0.300	05/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5520	16.0	05/25/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	14.2	10.0	05/26/2023	ND	189	94.5	200	2.28	
DRO >C10-C28*	1600	10.0	05/26/2023	ND	207	103	200	8.25	
EXT DRO >C28-C36	360	10.0	05/26/2023	ND					
Surrogate: 1-Chlorooctane	116	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	135	% 49.1-14	8						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 05/25/2023 Sampling Date: 05/23/2023

Reported: 05/30/2023 Sampling Type: Soil

Project Name: URRACA BOOSTER PUMP Sampling Condition: Cool & Intact
Project Number: 17918 Sample Received By: Tamara Oldaker

Project Location: SOLARIS - RURAL LEA CO., NM

Sample ID: V 2 @ 2' - R (H232668-16)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2023	ND	2.21	111	2.00	2.06	
Toluene*	<0.050	0.050	05/25/2023	ND	2.17	108	2.00	2.79	
Ethylbenzene*	< 0.050	0.050	05/25/2023	ND	2.11	106	2.00	1.78	
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.41	107	6.00	1.54	
Total BTEX	<0.300	0.300	05/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4880	16.0	05/25/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	12.3	10.0	05/26/2023	ND	189	94.5	200	2.28	
DRO >C10-C28*	3790	10.0	05/26/2023	ND	207	103	200	8.25	
EXT DRO >C28-C36	875	10.0	05/26/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	141	% 49.1-14	8						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 05/25/2023 Sampling Date: 05/23/2023

Reported: 05/30/2023 Sampling Type: Soil

Project Name: URRACA BOOSTER PUMP Sampling Condition: Cool & Intact
Project Number: 17918 Sample Received By: Tamara Oldaker

Project Location: SOLARIS - RURAL LEA CO., NM

Sample ID: V 3 @ SURFACE (H232668-17)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2023	ND	2.21	111	2.00	2.06	
Toluene*	<0.050	0.050	05/25/2023	ND	2.17	108	2.00	2.79	
Ethylbenzene*	<0.050	0.050	05/25/2023	ND	2.11	106	2.00	1.78	
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.41	107	6.00	1.54	
Total BTEX	<0.300	0.300	05/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	05/25/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2023	ND	189	94.5	200	2.28	
DRO >C10-C28*	295	10.0	05/26/2023	ND	207	103	200	8.25	
EXT DRO >C28-C36	89.3	10.0	05/26/2023	ND					
Surrogate: 1-Chlorooctane	100	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Applyzod By: 14

Received: 05/25/2023 Reported: 05/30/2023

05/30/2023 URRACA BOOSTER PUMP

Project Name: URRAC Project Number: 17918

Project Location: SOLARIS - RURAL LEA CO., NM

Sampling Date: 05/23/2023

Sampling Type: Soil

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

Sample ID: V 3 @ 2' - R (H232668-18)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2023	ND	2.21	111	2.00	2.06	
Toluene*	<0.050	0.050	05/25/2023	ND	2.17	108	2.00	2.79	
Ethylbenzene*	<0.050	0.050	05/25/2023	ND	2.11	106	2.00	1.78	
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.41	107	6.00	1.54	
Total BTEX	<0.300	0.300	05/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7800	16.0	05/25/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2023	ND	206	103	200	0.931	
DRO >C10-C28*	74.0	10.0	05/25/2023	ND	212	106	200	1.07	
EXT DRO >C28-C36	13.6	10.0	05/25/2023	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Applyzod By: 14

Received: 05/25/2023 Reported: 05/30/2023

Project Name: URRACA BOOSTER PUMP

Project Number: 17918

Project Location: SOLARIS - RURAL LEA CO., NM

Sampling Date: 05/22/2023

Sampling Type: Soil

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

Sample ID: V 4 @ SURFACE (H232668-19)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2023	ND	2.21	111	2.00	2.06	
Toluene*	<0.050	0.050	05/25/2023	ND	2.17	108	2.00	2.79	
Ethylbenzene*	<0.050	0.050	05/25/2023	ND	2.11	106	2.00	1.78	
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.41	107	6.00	1.54	
Total BTEX	<0.300	0.300	05/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12400	16.0	05/25/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2023	ND	206	103	200	0.931	
DRO >C10-C28*	<10.0	10.0	05/25/2023	ND	212	106	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	05/25/2023	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116	% 49.1-14	8						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Applyzod By: 14

Fax To:

Received: 05/25/2023 Sampling Date: 05/22/2023

Reported: 05/30/2023 Sampling Type: Soil
Project Name: URRACA BOOSTER PUMP Sampling Condition: Cool & Intact

Project Name: URRACA BOOSTER PUMP Sampling Condition: Cool & Intact
Project Number: 17918 Sample Received By: Tamara Oldaker

Project Location: SOLARIS - RURAL LEA CO., NM

Sample ID: V 4 @ 2' - R (H232668-20)

RTFY 8021R

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2023	ND	2.21	111	2.00	2.06	
Toluene*	<0.050	0.050	05/25/2023	ND	2.17	108	2.00	2.79	
Ethylbenzene*	<0.050	0.050	05/25/2023	ND	2.11	106	2.00	1.78	
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.41	107	6.00	1.54	
Total BTEX	<0.300	0.300	05/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/25/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2023	ND	206	103	200	0.931	
DRO >C10-C28*	<10.0	10.0	05/25/2023	ND	212	106	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	05/25/2023	ND					
Surrogate: 1-Chlorooctane	118 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 05/25/2023 Sampling Date: 05/22/2023 Reported: 05/30/2023 Sampling Type: Soil

Project Name: URRACA BOOSTER PUMP Sampling Condition: Cool & Intact
Project Number: 17918 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: SOLARIS - RURAL LEA CO., NM

mg/kg

Sample ID: V 5 @ SURFACE (H232668-21)

BTEX 8021B

	9/	9	7111411720	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2023	ND	2.21	111	2.00	2.06	
Toluene*	<0.050	0.050	05/25/2023	ND	2.17	108	2.00	2.79	
Ethylbenzene*	<0.050	0.050	05/25/2023	ND	2.11	106	2.00	1.78	
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.41	107	6.00	1.54	
Total BTEX	<0.300	0.300	05/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18800	16.0	05/25/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2023	ND	206	103	200	0.931	
DRO >C10-C28*	<10.0	10.0	05/25/2023	ND	212	106	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	05/25/2023	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119	% 49.1-14	8						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 05/25/2023 Sampling Date: 05/22/2023

Reported: 05/30/2023 Sampling Type: Soil

Project Name: URRACA BOOSTER PUMP Sampling Condition: Cool & Intact
Project Number: 17918 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: SOLARIS - RURAL LEA CO., NM

Sample ID: V 5 @ 2' - R (H232668-22)

RTFY 8021R

B1EX 8021B	mg,	кg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2023	ND	2.06	103	2.00	3.82	
Toluene*	<0.050	0.050	05/25/2023	ND	2.09	105	2.00	5.06	
Ethylbenzene*	<0.050	0.050	05/25/2023	ND	2.17	109	2.00	4.68	
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.39	106	6.00	5.17	
Total BTEX	<0.300	0.300	05/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/25/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2023	ND	206	103	200	0.931	
DRO >C10-C28*	<10.0	10.0	05/25/2023	ND	212	106	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	05/25/2023	ND					
Surrogate: 1-Chlorooctane	110 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Sampling Date: 05/22/2023

05/25/2023 Reported: 05/30/2023

Received:

Sampling Type: Soil

Project Name: URRACA BOOSTER PUMP Project Number: 17918

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

Project Location: SOLARIS - RURAL LEA CO., NM

Sample ID: WH 3 @ SURFACE (H232668-23)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2023	ND	2.06	103	2.00	3.82	
Toluene*	<0.050	0.050	05/25/2023	ND	2.09	105	2.00	5.06	
Ethylbenzene*	<0.050	0.050	05/25/2023	ND	2.17	109	2.00	4.68	
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.39	106	6.00	5.17	
Total BTEX	<0.300	0.300	05/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/25/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2023	ND	206	103	200	0.931	
DRO >C10-C28*	<10.0	10.0	05/25/2023	ND	212	106	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	05/25/2023	ND					
Surrogate: 1-Chlorooctane	113	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

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Tamara Oldaker

Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 05/25/2023 Reported: 05/30/2023

05/25/2023Sampling Date:05/22/202305/30/2023Sampling Type:SoilURRACA BOOSTER PUMPSampling Condition:Cool & Intact

Sample Received By:

Project Name: URRACA BOOSTER PUMP Project Number: 17918

Project Location: SOLARIS - RURAL LEA CO., NM

Sample ID: WH 3 @ 1' (H232668-24)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2023	ND	2.06	103	2.00	3.82	
Toluene*	<0.050	0.050	05/25/2023	ND	2.09	105	2.00	5.06	
Ethylbenzene*	<0.050	0.050	05/25/2023	ND	2.17	109	2.00	4.68	
Total Xylenes*	<0.150	0.150	05/25/2023	ND	6.39	106	6.00	5.17	
Total BTEX	<0.300	0.300	05/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/25/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2023	ND	206	103	200	0.931	
DRO >C10-C28*	<10.0	10.0	05/25/2023	ND	212	106	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	05/25/2023	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

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Celeg & Frence

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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

ecovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

It .	
1	2

Company Name: Etech Environmental & Safety Solutions	BILL TO	ANALYSIS REQUEST						
Project Manager: Joel Lowry	P.O. #: 50/ars							
Address: 3100 Plains Hwy	Company: Electr Environmental							
City: Lovington State: NM Zip: 88260	Attn: #N/A	1						
Phone #: 575-396-2378 Fax #: 575-396-1429	Address: P.O. Box 301	1						
Project #: 17918 Project Owner: Solaris	City: Lovington							
Project Name: Urraca Booster Pump	State: NM Zip: 88260							
Project Location: Rural Lea Co., NM	Phone #: 575-396-2378	1						
Sampler Name: Mignal Kaminaz	Fax #: 575-396-1429	1						
	RIX PRESERV. SAMPLING	1						
(G)RAB OR (C)OMP. (G)RAB OR (C)OMP. #CONTAINERS GROUNDWATER WASTEWATER	OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	Chloride TPH BTEX 8021						
1 NHI @ SUFFACE GI	K 5/12/23 105/2	S X X X						
211/10/1	X 5/12/13 16:30	D K A X						
3 EH1@ 50 Ace @1	V 5/22/23 10:45	XXXX						
4 EHIQ! 611	4 1722 h 3 1200	K X X						
5 SHIQSUIFICE GII	1 572923 11-15	XXX						
6 CHIE!	X 5/22/23 U:30	X X 20						
7 St2@ surface G'	8 Sh2h3 11.45	(XXX)						
	X 5/22/23 12:00	0 x X 70						
9 WHIE SUFFLU GI	× 5/22/23 12:15	XXX						
WWHICH GI	x 522 12 30	20 1/2 1						
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The initial part of the state o	Phone Result: □ Yes □ No Add¹l Phone #: Fax Result: □ Yes □ No Add¹l Fax #:
Mrs 10 Muldra Willette	REMARKS: Email results to #N/A
Relinquished By: Date: Recoived By:	
Time:	
Delivered By: (Circle One) Sample Condition Cool Intale: (Initiale)	7 47
Sampler - UPS - Bus - Other: -9.3 c/-9.98 Pres Pres No No	

Received by OCD: 2/20/2024 11:46:47 AM

[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

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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: Etech Environmental & Safety Solutions		BIL	LTO			ANALYSIS	REQUEST	
Project Manager: Joel Lowry		P.O. #:	solaris					
Address: 3100 Plains Hwy	1	Company: «				1 1		
City: Lovington State: NM Zip: 8	8260	Attn:	#N/A				1 1 1 1	
Phone #: 575-396-2378 Fax #: 575-396-1429		Address: P.O.	Box 301	4				
Project #: 17918 Project Owner:	Solaris	City: Lovingto	on		1 1		1 1 1 1	
Project Name: Urraça Booster Pump		State: NM Z	Zip: 88260	115				
Project Location: RVM Len COUNM		Phone #: 575-3	396-2378				1 1 1 1	
Sampler Name: MINH RAMINOL		Fax #: 575-396-	1429					
FOR LAB USE ONLY	MATRIX	PRESERV.	SAMPLING	1				
(G) RAB OR (C) OMI	WASTEWATER SOIL OIL	OTHER: ACID/BASE: ICE / COOL	DATE TIME	Chloride	BTEX 8021			
1/www. Surface G!	X	14	5/22/23 12:45	KV	8			
12 WHZ @ 17 61	8 .	X I	122/23 1:00	K X	K			
13 VI @ sustace GI	X	X :	5/22/231:15	X Y	14			
14 VI@ 3-12 GI			5/23/23 [0:30	X	X			
15 V2 @ Surface @ 1		0	5/22/23 50	7 3	X	-		\rightarrow
16 N2 @ 2-R " G !	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		(23/23 (0,9)	X	X	++-		
14 VI@ 3-12 GI 15 V2@ Surface GI 14 V2@ 2-R GI 17 V3@ SU To Ca GI 18 V3@ 2-R GI		Y	123/23 11,00	XX	10	1		
19 NA Surface GI	1 0	1	5/22/23 11.15	N X	1	1		
20 V4 DZ'-R G1	4	X	12/2 2:00	XX	X			

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affiliates of successors arising gut of or related to the per	rformance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated re-	isons or otherwise			
Relinguished By:/	Date: Received By:	Phone Result:	☐ Yes ☐ No	Add'l Phone #:	
	15-25-23	Fax Result:	☐ Yes ☐ No	Add'I Fax #:	
1 M/Mal/h	Time:	REMARKS:	Email results to	#N/A	
Relinguished By:	Date: Received By:	,			
	Time:				
		1	A		
Delivered By: (Circle One)	##13 Sample Condition CHECKED BY: Cool Intact (Initials)	1			
Sampler - UPS - Bus - Other:					

[†] Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

Released to Imaging: 4/11/2024 2:35:05 PM



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

3/3

Company Name: Etech Environmental & Safety Solutions	0		B	ILL TO	- ///	1				ANALY	SIS F	REQUES	ST		
Project Manager: Joel Lowry		P.C).#:	Edaris		11					\top				
Address: 3100 Plains Hwy		Company: Etan England													
City: Lovington State: NM Zip: 88260		Attn: #N/A													
Phone #: 575-396-2378 Fax #: 575-396-1429		Address: P.O. Box 301						()							
Project #: 17918 Project Owner: 50\a(\sigma\sigm		City	y: Lovin	gton											
Project Name: Urraca Booster Pump	0	Sta	ite: NM	Zip: 88260											
Project Location: Rural Clar CO, INIA		Pho	one #: 57	75-396-2378		1									
Project Location: RVM Ly CO, NA Sampler Name: Manual Romins		Fax	#: 575-39	96-1429		A									
FOR LAB USE ONLY 0	TRIX		PRESERV	. SAMPLIN	IG										
(G)RAB OR (C)OMP. **CONTAINERS GROUNDWATER WASTEWATER SOIL	OIL	OTHER:	ACID/BASE: CE / COCIL	DATE	TIME	Chloride	ТРН	BTEX 8021							
			X	5/12/23	2:15	X	K	X							1
22 V5 @ 21-R 6 1 32 W43 @ 5 Ushice 9 1			X	5/21/23	2:30	X	X	×							
23 WAZO SULLE GI			X	5/2/2	2:45	X	X	×							
24 WH301' G1			X	5/22/27	3:00	70	K	X							
	0	\perp				1					1				_
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	-	\perp								-	-		1	-	+
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether base	ed in contrac	t or fort	shall be limited	d to the amount paid I	w the classif for	the									
naisyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made is ervice. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business in	n writing and	d receive	ed by Cardinal v	within 30 days after co	emphalics of the	applicable									
ffiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether				ne above stated reaso			☐ Yes		No	Add'l Pho	ma #.				
5-25-25	1101		///	1111	Fax Resul		☐ Yes			Add'l Fax					
Relinquished By: Time: Received By:	letri	aa	fille	week.	REMAR	RK5	Email	result	s to		#N/A				
	e Condi		CHEC	KED BY:											
Cool	Intact es Ye		(Ini	itials)											



October 10, 2023

JOEL LOWRY
Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS, NM 88240

RE: URRACA BOOSTER PUMP

Enclosed are the results of analyses for samples received by the laboratory on 10/04/23 16:44.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 10/04/2023 Sampling Date: 10/04/2023 Reported: 10/10/2023 Sampling Type: Soil

Project Name: URRACA BOOSTER PUMP Sampling Condition: Cool & Intact Project Number: 17918 Sample Received By: Shari Cisneros

Project Location: SOLARIS - RURAL LEA CO., NM

Sample ID: SP 2 @ 4 (H235413-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/06/2023	ND	2.10	105	2.00	4.23	
Toluene*	<0.050	0.050	10/06/2023	ND	2.11	105	2.00	4.40	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.00	100	2.00	3.97	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.00	100	6.00	3.65	
Total BTEX	<0.300	0.300	10/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	10/06/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	212	106	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					
Surrogate: 1-Chlorooctane	90.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 10/04/2023 Sampling Date: 10/04/2023

Reported: 10/10/2023 Sampling Type: Soil

Project Name: URRACA BOOSTER PUMP Sampling Condition: Cool & Intact Sample Received By: Project Number: 17918 Shari Cisneros

Project Location: SOLARIS - RURAL LEA CO., NM

Sample ID: SP 2 @ 7 (H235413-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/06/2023	ND	2.10	105	2.00	4.23	
Toluene*	<0.050	0.050	10/06/2023	ND	2.11	105	2.00	4.40	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.00	100	2.00	3.97	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.00	100	6.00	3.65	
Total BTEX	<0.300	0.300	10/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	10/06/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	212	106	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					
Surrogate: 1-Chlorooctane	93.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Applyzod By: MC

10/04/2023 Reported: 10/10/2023

Project Name: URRACA BOOSTER PUMP

Project Number: 17918

Project Location: SOLARIS - RURAL LEA CO., NM

ma/ka

Sampling Date: 10/04/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Shari Cisneros

Sample ID: SP 3 @ 4 (H235413-03)

Received:

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/06/2023	ND	2.10	105	2.00	4.23	
Toluene*	<0.050	0.050	10/06/2023	ND	2.11	105	2.00	4.40	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.00	100	2.00	3.97	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.00	100	6.00	3.65	
Total BTEX	<0.300	0.300	10/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.9	% 71.5-13	4						
Chloride, SM4500CI-B	4500CI-B mg/kg			d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3360	16.0	10/06/2023	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	212	106	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					
Surrogate: 1-Chlorooctane	98.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 10/04/2023

Sampling Date: 10/04/2023 10/10/2023 Sampling Type: Soil

Project Name: URRACA BOOSTER PUMP Sampling Condition: Cool & Intact Sample Received By: Shari Cisneros

Project Number: 17918

Project Location: SOLARIS - RURAL LEA CO., NM

Sample ID: SP 3 @ 11 (H235413-04)

Reported:

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/06/2023	ND	2.10	105	2.00	4.23	
Toluene*	<0.050	0.050	10/06/2023	ND	2.11	105	2.00	4.40	
Ethylbenzene*	<0.050	0.050	10/06/2023	ND	2.00	100	2.00	3.97	
Total Xylenes*	<0.150	0.150	10/06/2023	ND	6.00	100	6.00	3.65	
Total BTEX	<0.300	0.300	10/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.3	% 71.5-13	4						
Chloride, SM4500Cl-B	oride, SM4500Cl-B mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/06/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/05/2023	ND	216	108	200	3.49	
DRO >C10-C28*	<10.0	10.0	10/05/2023	ND	212	106	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	10/05/2023	ND					
Surrogate: 1-Chlorooctane	95.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109 9	% 49.1-14	8						

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Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Freene

RDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	: Etech Envir	onmental & Safety Solo	rtions, I	nc.				8/	LL TO					ANA	LYSIS	REQUE	EST		
Project Manager	r. JoeL	LOWLY	-		-	F	P.O. #:		A P										
Address: 2617						0	ompa	iny S	olari	6									
City: Hobbs		State: NM	Zip: 8	8240		A	Attn: (200	Kir	K	1								
Phone #: (575	5) 264-9884	Fax #:					Address:												
Project #: 17918 Project Owner: 50 (aris						C	city:			Lieure		*							
Project Name: Urraca Booster						State: Zip:					(W)	18							
Project Location			NM				Phone #:					TPH (8015M)	STEX (8021B)						
Sampler Name:		Casarez	14. (-	ax #:	-	_	14-75	Chloride) H	X						
FOR LAB USE ONLY	200	Cocyotias	TT		MATRI	_	_	SERV.	SAMPL	ING	ľ	4	B						
Lab I.D.		ple I.D.	(G)RAB OR (C)OMP	GROUNDWATER	SOIL	SLUDGE	ACID/BASE	ICE / COOL	DATE	TIME	1								
DC/	51204		3					/	10-4	-1	~	V	~						
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3	51304		C									1	1			-	-		-
4	5P3 ell		C		-		90	*	-		1	4	-			-	-	-	-
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			++		-	++	+	-				*				-		-	+
		pility and client's exclusive remedy for							o the amount pai	d by the client for	the	η							_
vice. In no event shall Ca		d any other cause whatevever shall b tall or consequental demages, includi arformance of services hereunder by	ng without its	nitution, busin	nee interrup	tions, los	s of use, or	loss of pr	offic incurred by	clent, in subsidier	ries,								
elinquished By	/: :	Date: 10-4		ived By		,				Phone Re Fax Resul	sult:	☐ Ye		No Add'I	Phone #:				
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elinquished By	1:	Date:	Rece	ived By	_	00	4							1					
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Delivered By: Sampler - UPS		1.1c#140		Coo	I Inta	Yes		(îniti				1							



October 18, 2023

JOEL LOWRY
Etech Environmental & Safety Solutions
2617 W MARLAND
HOBBS, NM 88240

RE: URRACA BOOSTER PUMP

Enclosed are the results of analyses for samples received by the laboratory on 10/12/23 14:52.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received: 10/12/2023 Reported: 10/18/2023

Project Name: URRACA BOOSTER PUMP

Project Number: 17918

Project Location: SOLARIS - RURAL LEA CO., NM

Sampling Date: 10/04/2023

Sampling Type: Soil

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

Sample ID: SP - 1 @ 4' (H235584-01)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2023	ND	1.94	97.0	2.00	0.799	
Toluene*	<0.050	0.050	10/14/2023	ND	1.93	96.6	2.00	4.70	
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	2.03	102	2.00	5.34	
Total Xylenes*	<0.150	0.150	10/14/2023	ND	6.10	102	6.00	5.33	
Total BTEX	<0.300	0.300	10/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	oride, SM4500Cl-B mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3080	16.0	10/13/2023	ND	432	108	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	180	90.1	200	2.85	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	200	100	200	2.82	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					
Surrogate: 1-Chlorooctane	77.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.1	% 49.1-14	8						

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Analytical Results For:

Etech Environmental & Safety Solutions JOEL LOWRY 2617 W MARLAND HOBBS NM, 88240

Fax To:

Received: 10/12/2023 Sampling Date: 10/04/2023

Reported: 10/18/2023 Sampling Type: Soil

Project Name: URRACA BOOSTER PUMP Sampling Condition: Cool & Intact
Project Number: 17918 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: SOLARIS - RURAL LEA CO., NM

Sample ID: SP - 1 @ 11' (H235584-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2023	ND	1.94	97.0	2.00	0.799	
Toluene*	<0.050	0.050	10/14/2023	ND	1.93	96.6	2.00	4.70	
Ethylbenzene*	<0.050	0.050	10/14/2023	ND	2.03	102	2.00	5.34	
Total Xylenes*	<0.150	0.150	10/14/2023	ND	6.10	102	6.00	5.33	
Total BTEX	<0.300	0.300	10/14/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	10/13/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2023	ND	180	90.1	200	2.85	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	200	100	200	2.82	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					
Surrogate: 1-Chlorooctane	91.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Released to Imaging: 4/11/2024 2:35:05 PM

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

npany Name: Solaris Water Midstream, LLC ject Manager: Joel Lowry dress: 2617 W Marland Blvd									BIL	LL TO						ANAL	YSIS.	REC	QUES			
iress: 2617 W Marland Blvd						P	.0.		,					-								
						c	omp	any	: :	Solaris Midstrea	m pp	1										
: Hobbs State: NM	Zip):	8824	0		A	ttn:	Ro	b Kirk	(
one #: 575-396-2378 Fax #: 575-396	1429						ddre	ess:				1										
ject #: 17918 Project Owner:	30	orans	VVate		ueam		ity:				1	1										
ject Name: Urraca Booster Pump						S	tate	:		Zip:												
ject Location: UL/ Sec TS-RE - Lea	Co	un	ty	-12	Zuv	a p	hon	e #:	. !		15.7											
npler Name: Dominic Ca	-		0				ax#		1			1			1							
R LAB USE ONLY		П		MA	TRIX	-	Pi	RESE	RV.	SAMPLI	NG	14										
ab I.D. Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chloride	ТРН	BTEX 8021								
SP - 1 @ 4'	G	-		X	4		T	X		10/4/23	A	1X	Х	X								
2 SP - 1 @ 11'	G	1		X	1			X	1	10/4/23	1	×	Х	Х								
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							T															

Time: CHECKED BY: Delivered By: (Circle One) Sample Condition #140 (Initials) Cool Intact

Sampler - UPS - Bus - Other:

Yes Yes † Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476 FORM-006 R 2.0

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 315971

QUESTIONS

Operator:	OGRID:
SOLARIS WATER MIDSTREAM, LLC	371643
9651 Katy Fwy	Action Number:
Houston, TX 77024	315971
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2310130251
Incident Name	NAPP2310130251 URRACA BOOSTER PUMP @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received

Location of Release Source									
Please answer all the questions in this group.									
Site Name	URRACA BOOSTER PUMP								
Date Release Discovered	04/10/2023								
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 fo	or 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: Equipment Failure Pump Produced Water Released: 51 BBL Recovered: 10 BBL Lost: 41 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III
1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505

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

QUESTIONS, Page 2

Action 315971

Phone:(505) 476-3470 Fax:(505) 476-3462	
QUESTI	ONS (continued)
Operator:	OGRID:
SOLARIS WATER MIDSTREAM, LLC	371643
9651 Katy Fwy	Action Number:
Houston, TX 77024	315971
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s	afety 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.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releate OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Rob Kirk Title: VP- Environmental Compliance Email: rob.kirk@ariswater.com

Date: 02/20/2024

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 3

Action 315971

QUESTIONS (continued)

Operator:	OGRID:
SOLARIS WATER MIDSTREAM, LLC	371643
9651 Katy Fwy	Action Number:
Houston, TX 77024	315971
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

vided to the appropriate district office no later than 90 days after the release discovery date.
Yes
mination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Yes
No
h, in milligrams per kilograms.)
18800
4680
3800
0
0
ompleted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
03/08/2024
05/25/2023
03/08/2024
85823
7947
85823
7947
ion at the time of submission and may (be) change(d) over time as more remediation efforts are completed.
h

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

District I

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 **District II**

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 **District III**

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 **District IV** 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462 State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 4

Action 315971

QUESTIONS (continued)

ı	Operator:	OGRID:
ı	SOLARIS WATER MIDSTREAM, LLC	371643
ı	9651 Katy Fwy	Action Number:
ı	Houston, TX 77024	315971
ı		Action Type:
ı		[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(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	OWL LANDFILL JAL [fJEG1635837366]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

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

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

I hereby agree and sign off to the above statement

Name: Rob Kirk

Title: VP- Environmental Compliance

Email: rob.kirk@ariswater.com

Date: 02/20/2024

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

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811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

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

QUESTIONS, Page 5

Action 315971

QUESTIONS (continued)

Operator:	OGRID:
SOLARIS WATER MIDSTREAM, LLC	371643
9651 Katy Fwy	Action Number:
Houston, TX 77024	315971
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

OUESTIONS

	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.		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

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III

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QUESTIONS, Page 6

Action 315971

QUESTIONS (continued)

Operator:	OGRID:
SOLARIS WATER MIDSTREAM, LLC	371643
9651 Katy Fwy	Action Number:
Houston, TX 77024	315971
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	321551
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/12/2024
What was the (estimated) number of samples that were to be gathered	150
What was the sampling surface area in square feet	40000

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

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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

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CONDITIONS

Action 315971

CONDITIONS

Operator:	OGRID:
SOLARIS WATER MIDSTREAM, LLC	371643
9651 Katy Fwy	Action Number:
Houston, TX 77024	315971
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	Remediation plan is approved under the following conditions: 1. Variance approved to limit excavation down to the calcrete rock layer (2 to 3') below grade. 2. Variance request to increase sampling frequency to 400 sq/ft per one five-point composite sample is approved.	4/11/2024
scott.rodgers	3. Solaris (371643) is responsible for the remediation, reclamation, and revegetation of this release, it is the responsible party's duty to include letters from the pipeline operators who are requesting a "no excavation" buffer zone around their pipelines to take responsibility for any contamination left in place due to their buffer zone request. If the pipeline operators are unwilling to take responsibility for the contamination located within their requested buffer zones, the responsible party will be required to remediate, reclaim, and revegetate the release pursuant to 19.15.29 NMAC. Furthermore, pursuant to 19.15.29.7 C. NMAC, OCD may consider a person causing the release, or controlling the location of the release as the responsible party. If any pipeline operator refuses to allow the remediation, reclamation, and revegetation of this release, OCD reserves the right to hold the pipeline operator as the responsible party.	4/11/2024
scott.rodgers	4. All other conditions in the remediation plan are approved. 5. Solaris has 90-days (07/10/2024) to submit its appropriate or final remediation closure report.	4/11/2024