

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

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

Form C-141
Revised April 3, 2017

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

Release Notification and Control -103.508056

OPERATOR Initial Report Final Report

Name of Company Legacy Reserves	Contact Clyde Wilhoit
Address 303 W Wall street, Suite 1800, Midland Tx, 79701	Telephone No. 432.425.4137
Facility Name Lea Unit South Battery	Facility Type Flowline

Surface Owner S & S Inc. Mineral Owner **Federal** API No. **30-025-43077**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	24	20-S	34-E					Lea

Latitude **32.557222** Longitude -103.30'.29" NAD83

NATURE OF RELEASE

Type of Release Crude oil	Volume of Release 72 BBL	Volume Recovered 60 BBL
Source of Release Flowline	Date and Hour of Occurrence 8/18/18 5:00 AM	Date and Hour of Discovery 8/18/18 5:00AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*
no

RECEIVED
By *CHernandez* at 3:03 pm, Aug 21, 2018

Describe Cause of Problem and Remedial Action Taken.*
Semi truck struck flow line. Well was shut in and line was repaired.

Describe Area Affected and Cleanup Action Taken.*
Flowline sprayed approximately 60'x150' area. Small pooling area under lines and road. Mico Blaze will be applied to vegetation and soil will be tested and remediated as soon as possible.

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

Signature: <i>Clyde Wilhoit</i>	OIL CONSERVATION DIVISION	
Printed Name: <i>Clyde Wilhoit</i>	Approved by Environmental Specialist: <i>CH</i>	
Title: <i>Maintenance Foreman</i>	Approval Date: 8/21/2018	Expiration Date:
E-mail Address: <i>cwilhoit@legacorp.com</i>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <i>8-20-18</i> Phone: <i>432-425-4137</i>	NMAC 19.15.29 effective August 14, 2018. Complete release characterization before any significant remediation.	

* Attach Additional Sheets If Necessary
1RP-5167
pCH1823355621

nCH1823355359

Incident ID	NCH1823355359
District RP	1RP-5167
Facility ID	fCH1901642211
Application ID	pCH1823355621

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>50-100'</u> (ft. bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Incident ID	NCH1823355359
District RP	IRP-5167
Facility ID	fCH1901642211
Application ID	pCH1823355621

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

Printed Name: Clyde Wilhoit Title: Maintenance Foreman
 Signature: *Clyde Wilhoit* Date: 12-7-2018
 email: cwilhoit@legacylp.com Telephone: 432-425-4137

OCD Only

REVIEWED
 By **CHernandez** at 2:24 pm, Jan 16, 2019

Received by: _____

Incident ID	NCH1823355359
District RP	1RP-5167
Facility ID	fCH1901642211
Application ID	pCH1823355621

Remediation Plan

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

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

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

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

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

Printed Name: Clyde Wilhoit Title: Maintenance Foreman
 Signature: *Clyde Wilhoit* Date: 12-7-2018
 email: cwilhoit@legacylp.com Telephone: 432-425-4137

OCD Only

Received by: _____ Date: _____
 Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: **APPROVED** Date: _____
By CHernandez at 2:24 pm, Jan 16, 2019

Incident ID	NCH1823355359
District RP	1RP-5167
Facility ID	30-025-43077
Application ID	pCH1823355621

Closure

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

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

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

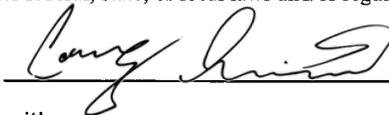
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Clyde Wilhoit Title: Maintenance Foreman
 Signature:  Date: 3/13/19
 email: cwilhoit@legacylp.com Telephone: 432-425-4137

OCD Only

Received by: OCD Date: 3/13/19

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

Closure Approved by:  Date 4/1/19
 Printed Name: Cory Smith Title Environmental Spec.



February 27, 2019

Incident ID	NCH1823355359
District RP	1RP-5167
Facility ID	30-025-43077
Application ID	pCH1823355621

New Mexico Energy, Minerals and Natural Resources Department
 Oil Conservation Division, District 1
 1625 French Drive
 Hobbs, NM 88240

Re: Site Assessment and Closure Report
Site Name: Lea Unit South Battery
GPS: Latitude: 32.55722 Longitude: -103.511284
Legals: UL "I", Sec. 24, T20S, R34E
Lea County, New Mexico
NMOCD Ref. No. 1RP-5167

Lowry Environmental & Associates, LLC (LEA), on behalf of Legacy Reserves Operating, LP, has prepared this Site Assessment and Closure Report for the Release Site known as the Lea Unit South Battery. Details of the release are summarized on the table below:

Nature and Volume of Release	
Date Release Discovered	8/18/2018
Type of Release	Crude Oil
Source of Release	Flowline
Volume Released (bbls)	72
Volume Recovered (bbls)	60
Cause of Release	
The release was attributed to a 3rd Party Trucking Company striking above ground flowlines.	
Affected Area	
The release affected an area within the pasture measuring approximately 2,600 sq. ft. adjacent to, and west of, the caliche access road. Overspray from the release affected an additional area measuring approximately 60 ft. by 150 ft. southwest of the affected flowlines.	
Was this a major release?	If YES, for what reasons (s) is this considered a major release?
Yes	Volume Greater than 25 bbls
If Yes, was immediate notice given to the OCD? By whom? To whom? When and by what means?	
Not Available, Not Available, Not Available, Not Available	

A copy of the Release Notification (NMOCD Form C-141) is provided as Attachment #8.

Incident ID	NCH1823355359
District RP	1RP-5167
Facility ID	30-025-43077
Application ID	pCH1823355621

Site Assessment/Characterization	
What is the shallowest depth to groundwater beneath the area affected by the release?	50-100'
Did this release impact groundwater or surface water?	No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	No
Are the lateral extents of the release within 300 feet of a wetland?	No
Are the lateral extents of the release overlying a subsurface mine?	No
Are the lateral extents of the release overlying an unstable area such as karst geology?	No
Are the lateral extents of the release within a 100-year floodplain?	No
Did the release impact areas not on an exploration, development, production or storage site?	Yes

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey was conducted in an effort to determine the average depth to groundwater within a 1 Mile radius of the Site and identify any registered water wells within a 1/2 Mile radius of the Site. A search of the NMOSE database suggested the presence of 1 water well (CP00665) within 1,000 ft. of the site. A field survey indicated available geographic information for CP00665 was outdated and/or incorrect; there is no waterwell in that vicinity. A search of the USGS database did not identify any water wells within a 1/2 Mile radius.

Based on the volume and nature of the release, inferred depth to groundwater and NMOCD Siting Criteria, the NMOCD Closure Criteria for the Site is as follows:

Closure Criteria for Soil Impacted by a Release	
Benzene	10 mg/kg
Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX)	50 mg/kg
Total Petroleum Hydrocarbons	2500 mg/kg
Combined GRO and DRO	1000 mg/kg
Chloride	10000 mg/kg

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on Figures 1 & 2. Depth to groundwater information is provided as Attachment #4. A Photographic Log is provided as Attachment #7.

Incident ID	NCH1823355359
District RP	1RP-5167
Facility ID	30-025-43077
Application ID	pCH1823355621

INITIAL SITE ASSESSMENT

On **September 26, 2018**, upon conducting limited initial remediation activities, five (5) soil samples (SP#1 through SP#5) were collected from the base of the excavated area in an effort to determine if impacted soil affected above the NMOCD Closure Criteria remained in-situ. The collected soil samples were submitted to an NMOCD-approved laboratory for analysis of TPH and chloride. Laboratory analytical results indicated chloride and TPH concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples with the exception of soil sample SP #4 and SP #5, which exhibited TPH concentrations of 8,341 mg/kg and 3,220 mg/kg, respectively.

On **November 7, 2018**, the site was revisited in an effort to further characterize the affected area. During the site visit, fourteen (14) soil samples (SH @ Surface, SH @ 1', NH @ Surface, NH @ 1', WH1 @ Surface, WH1 @ 1', WH2 @ Surface, WH2 @ 1', EH1 @ Surface, EH1 @ 1', EH @ Surface, EH2 @ 1', SP4B @ 3' and SP5B @ 3') were collected and submitted to the laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. A table summarizing laboratory analytical results from soil samples collected during the initial site assessment is provided below:

Concentrations of BTEX, TPH and/or Chloride in Soil - Initial Assessment(s)												
Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					E300/4500Cl	
				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)	
SP #1	9/26/18	1'	In-Situ	-	-	<10.0	505	505	131	636	464	
SP #2	9/26/18	1'	In-Situ	-	-	<10.0	270	270	38.4	308	64.0	
SP #3	9/26/18	1'	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	1,090	
SP #4	9/26/18	1'	In-Situ	-	-	291	6,930	7,221	1,120	8,341	80.0	
SP #5	9/26/18	1'	In-Situ	-	-	<10.0	2,710	2,710	510	3,220	192	
SH @ Surf.	11/7/18	Surf.	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0	
SH @ 1'	11/7/18	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0	
NH @ Surf.	11/7/18	Surf.	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0	
NH @ 1'	11/7/18	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0	
WH1 @ Surf.	11/7/18	Surf.	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0	
WH1 @ 1'	11/7/18	1'	In-Situ	<0.050	<0.300	<10.0	63.1	63.1	<10.0	63.1	240	
WH2 @ Surf.	11/7/18	Surf.	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240	
WH2 @ 1'	11/7/18	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0	
EH1 @ Surf.	11/7/18	Surf.	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0	
EH1 @ 1'	11/7/18	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0	
EH2 @ Surf.	11/7/18	Surf.	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0	
EH2 @ 1'	11/7/18	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0	
SP4B @ 3'	11/7/18	3'	In-Situ	<0.050	<0.300	<10.0	22.5	22.5	<10.0	22.5	<16.0	
SP5B @ 3'	11/7/18	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0	
Closure Criteria				10	50	-	-	1,000	-	2,500	10,000	

A "Site & Sample Location Map" is provided as Attachment #3. Field Data, if applicable, is provided as Attachment #9. Soil profile observations are provided on Attachment #5. Laboratory analytical reports are provided as Attachment #6.

NMOCD APPROVALS/STIPULATIONS

The Site Assessment Report and Proposed Remediation Plan was subsequently approved. Please reference the associated Site Assessment Report and Proposed Remediation Plan that was submitted for 1RP-5167 for additional details.

REMEDIATION ACTIVITIES SUMMARY

On **November 16, 2018**, LEA collected five (5) soil samples (Past. 0-3", Past. 3-6", Road Comp., SW Floor Comp. and SE Floor Comp.) and submitted them to the laboratory in an effort to determine if soil was affected above the NMOCD Closure Criteria. The collected soil samples were submitted to an NMOCD-approved laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated concentrations of TPH exceeded the NMOCD Closure Criteria in soil samples Past. 0-3", Past. 3-6", Road Comp., SW Floor Comp. and SE Floor Comp.

Upon receiving laboratory analytical results from the collected soil samples, remediation activities resumed at the release site. Impacted soil in the areas characterized by sample points SP#4, SP #5, Past., SW Floor Comp. and SE Floor Comp. was excavated, stockpiled on-site then transported to an NMOCD-permitted disposal facility. The floor and sidewalls of the excavated area were advanced until field observations suggested chloride and hydrocarbon impacts had been mitigated.

On **December 11, 2018**, LEA collected nine (9) excavation confirmation composite soil samples (N. Floor Comp., S. Floor Comp., WP Comp. #1, WP Comp #2, Past. Comp., S. Wall Comp. E. Wall Comp., W. Wall Comp. and N. Wall Comp.) were collected from the floor and sidewalls of the excavated area and submitted them to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples with the exception of soil sample N. Wall Comp., which exhibited a combined GRO+DRO concentration of 1,070 mg/kg; the excavation sidewall was advanced.

On **January 8, 2019**, LEA revisited the release site. During the site visit, one (1) excavation confirmation composite soil (N. Wall Comp. B) sample was collected from the sidewall of the excavation in the area represented by soil sample N. Wall Comp. and submitted them to the laboratory for analysis of TPH concentrations, which were determined to be below the NMOCD Closure Criteria.

On **February 4, 2019**, LEA revisited the release site. During the site visit, one (1) excavation confirmation soil sample (SE SW) was collected from the "grade change" in the central portion of the excavation in accordance with the NMOCD. The collected soil sample was submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations, which were determined to be below the NMOCD Closure Criteria.

Upon receiving laboratory analytical results from confirmation soil samples, the excavated area was backfilled with locally-sourced, non-impact material. Areas affected by remediation and closure activities were contoured and/or compacted 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 a landowner approved seed mixture during the first favorable growing season following closure of the Site.

A table summarizing laboratory analytical results from confirmation soil samples is provided on the following page:

Incident ID	NCH1823355359
District RP	1RP-5167
Facility ID	30-025-43077
Application ID	pCH1823355621

Concentrations of BTEX, TPH and/or Chloride in Soil - Confirmation Samples											
Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					E300/4500CI
				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)
Past. 0-3"	11/16/18	0-3"	Excavated	<0.050	<0.300	27.4	7,210	7,237	1,320	8,557	4,960
Past. 3-6"	11/16/18	3-6"	Excavated	<0.050	<0.300	<10.0	3,150	3,150	908	4,058	704
Road Comp.	11/16/18	Surf.	In-Situ	<0.050	<0.300	<10.0	758	758	303	1,061	2,440
SW Floor Comp.	11/16/18	Surf.	Excavated	<0.050	<0.300	21.7	1,660	1,682	343	2,025	864
SE Floor Comp.	11/16/18	Surf.	Excavated	<0.050	0.455	<10.0	3,180	3,180	800	3,980	2,280
N. Floor Comp.	12/11/18	18"	In-Situ	<0.050	<0.300	<10.0	216	216	32.9	249	32.0
S. Floor Comp.	12/11/18	12"	In-Situ	<0.050	<0.300	<10.0	31.3	31.3	<10.0	31.3	16.0
WP Comp #1	12/11/18	4"	In-Situ	<0.050	<0.300	<10.0	205	205	22.00	227.0	256
WP Comp #2	12/11/18	4"	In-Situ	<0.050	<0.300	<10.0	246	246	23.5	269.5	448
Past. Comp.	12/11/18	8-10"	In-Situ	<0.050	<0.300	<10.0	42.3	42.3	10.6	52.9	16.0
S. Wall Comp.	12/11/18	0-12"	In-Situ	<0.050	<0.300	<10.0	127	127	22.6	150	16.0
E. Wall Comp.	12/11/18	0-18"	In-Situ	<0.050	<0.300	<10.0	119	119	24.6	143.6	16.0
W. Wall Comp.	12/11/18	0-18"	In-Situ	<0.050	<0.300	<10.0	193	193	45.1	238.1	256
N. Wall Comp.	12/11/18	0-18"	Excavated	<0.050	<0.300	<10.0	1,070	1,070	213	1,283	32.0
N. Wall Comp. B	1/8/19	0-18"	In-Situ	-	-	<10.0	<10.0	<10.0	<10.0	<10.0	-
SE SW	2/4/19	12-18"	In-Situ	<0.050	<0.300	<10.0	38.9	38.9	<10.0	38.9	160
Closure Criteria				10	50	-	-	1,000	-	2,500	20,000

A "Site & Sample Location Map" is provided as Attachment #3. Field Data, if applicable, is provided as Attachment #9. Soil profile observations are provided on Attachment #5. Laboratory analytical reports are provided as Attachment #6.

Incident ID	NCH1823355359
District RP	1RP-5167
Facility ID	30-025-43077
Application ID	pCH1823355621

CLOSURE REQUEST

Remediation activities were conducted in accordance with an approved Workplan. Impacted soil affected above the NMOCD Closure Criteria was excavated and transported to an NMOCD-permitted facility for disposal. Laboratory analytical results from confirmation soil sample indicate BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. Upon receiving laboratory analytical results from confirmation soil samples, the excavated area was backfilled with locally-sourced, non-impacted material.

During the course of remediation activities, approximately 180 cubic yards of impacted soil were excavated and transported to an NMOCD-permitted facility for disposal.

Based on laboratory analytical results, field activities conducted to date and conditions at the site, LEA recommends Legacy Reserves Operating, LP provide a copy of this Remediation Summary and Closure Report to the NMOCD and request closure be granted to the Lea Unit South Battery Site.

Respectfully,



Joel W. Lowry
Environmental Professional
Lowry Environmental & Associates, LLC

- Attachments:**
- Attachment #1- Figure 1 - Topographic Map
 - Attachment #2- Figure 2 - Aerial Map
 - Attachment #3- Figure 3 - Site & Sample Location Map
 - Attachment #4- Depth to Groundwater Information
 - Attachment #5- Soil Profile
 - Attachment #6- Laboratory Analytical Reports
 - Attachment #7- Photographic Log
 - Attachment #8- Release Notification (FORM C-141)
 - Attachment #9- Field Data

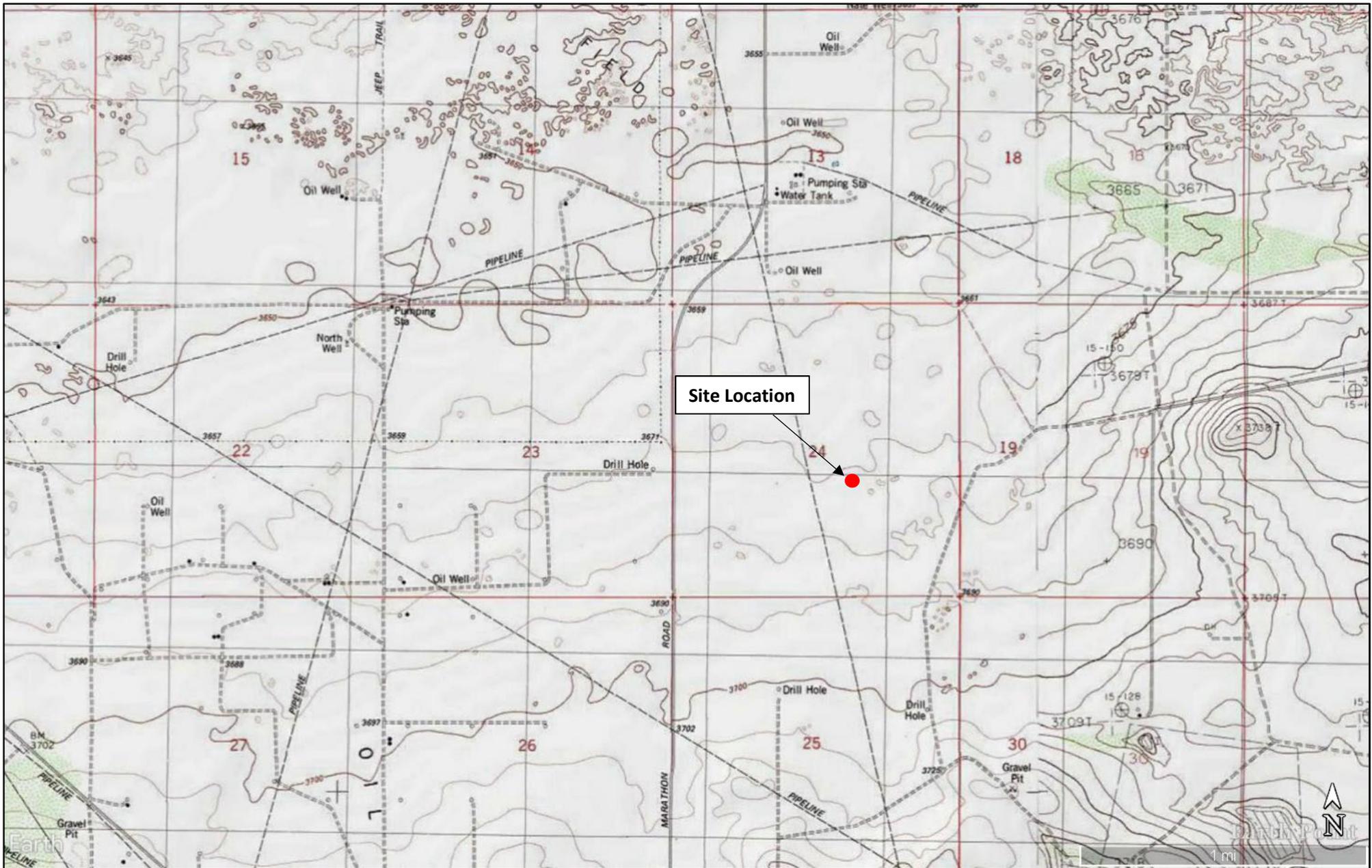
LIMITATIONS

This document has been prepared on behalf of Legacy Reserves Operating, LP. Use of information contained in this report, including exhibits and attachments, by any other party without the consent of LEA and/or Legacy Reserves Operating, LP is prohibited.

This document has been prepared in a professional manner, using the degree of skill and care exercised by similar environmental professionals. LEA notes that the facts and conditions referenced in this document may change over time and that the conclusions and recommendations are only applicable to the facts and conditions as described at the time this document was prepared.

LEA has prepared this report to the best of its ability. No other warranty, expressed or implied, is made or intended.

ATTACHMENT #1
Figure 1 - Topographic Map



Site Location

LEGEND:

● Site Location

Figure 1

Topographic Map
 Legacy Reserves Operating, LP
 Lea Unit South Battery
 GPS: 32.55722, -103.50805
 Lea County, New Mexico

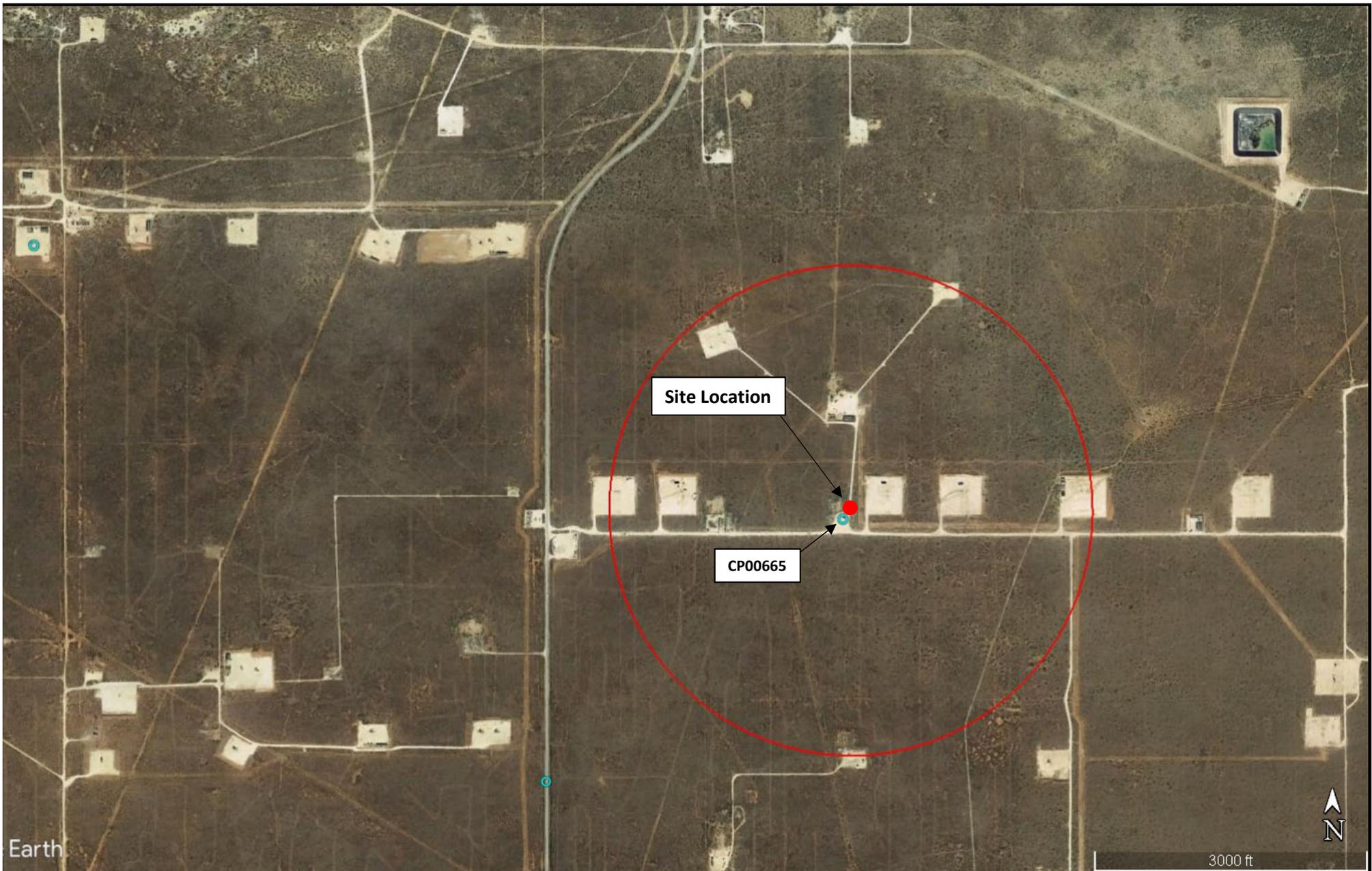


Drafted by: jwl

Checked by: client

Date: 11/6/2018

ATTACHMENT #2
Figure 2 - Aerial Map



LEGEND:

	Site Location		Non-Industrial Building
	Fresh Water Well		Subsurface Mine
	100-Year Floodplain		1/2 Mile Radius
	High/Critical Karst		

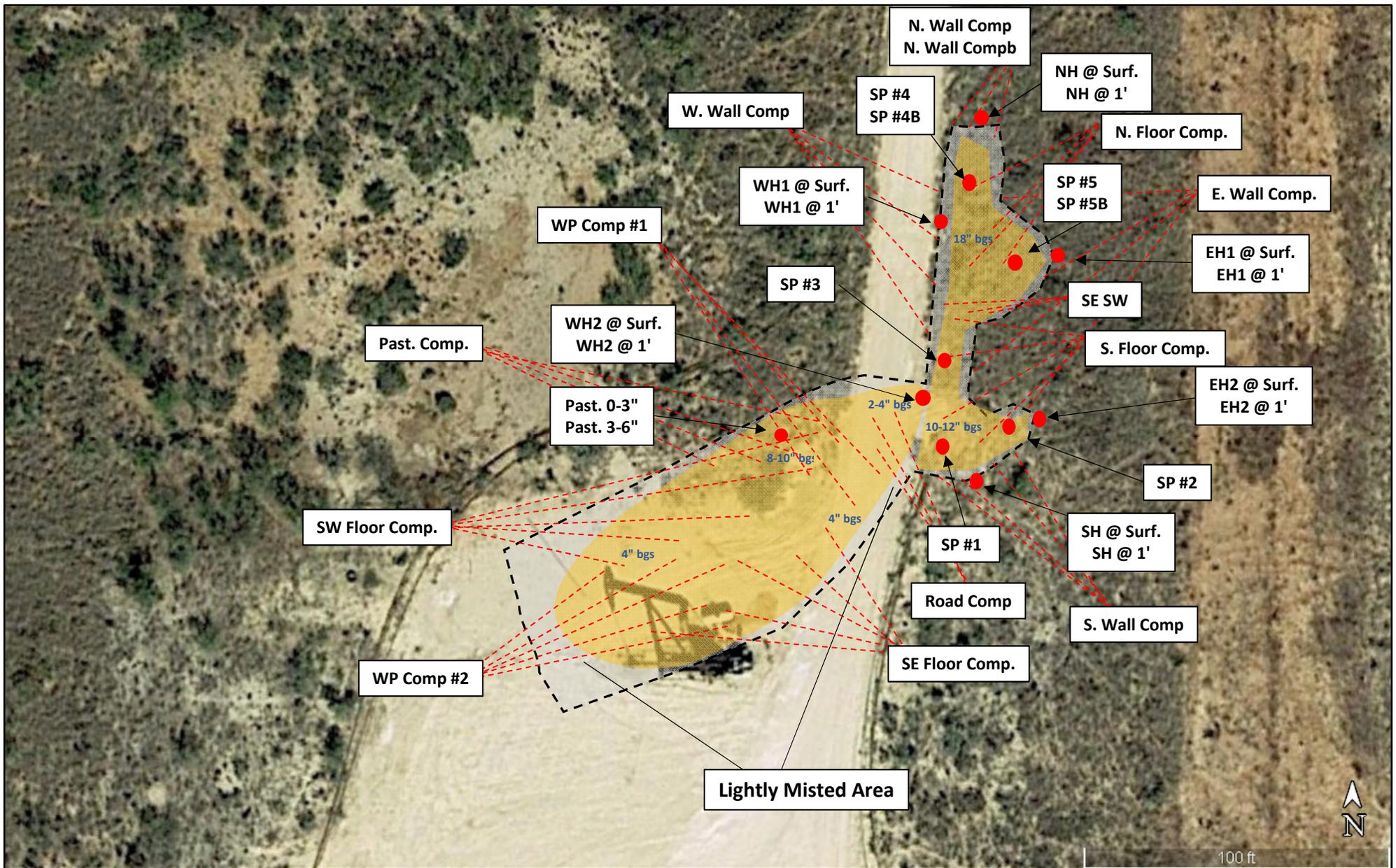
Figure 2
 Aerial Map
 Legacy Reserves Operating, LP
 Lea Unit South Battery
 GPS: 32.55722, -103.50805
 Lea County, New Mexico

LOWRY 
 environmental

Drafted by: jwl Checked by: client Date: 12/6/2018

ATTACHMENT #3

Figure 3 - Site & Sample Location Map



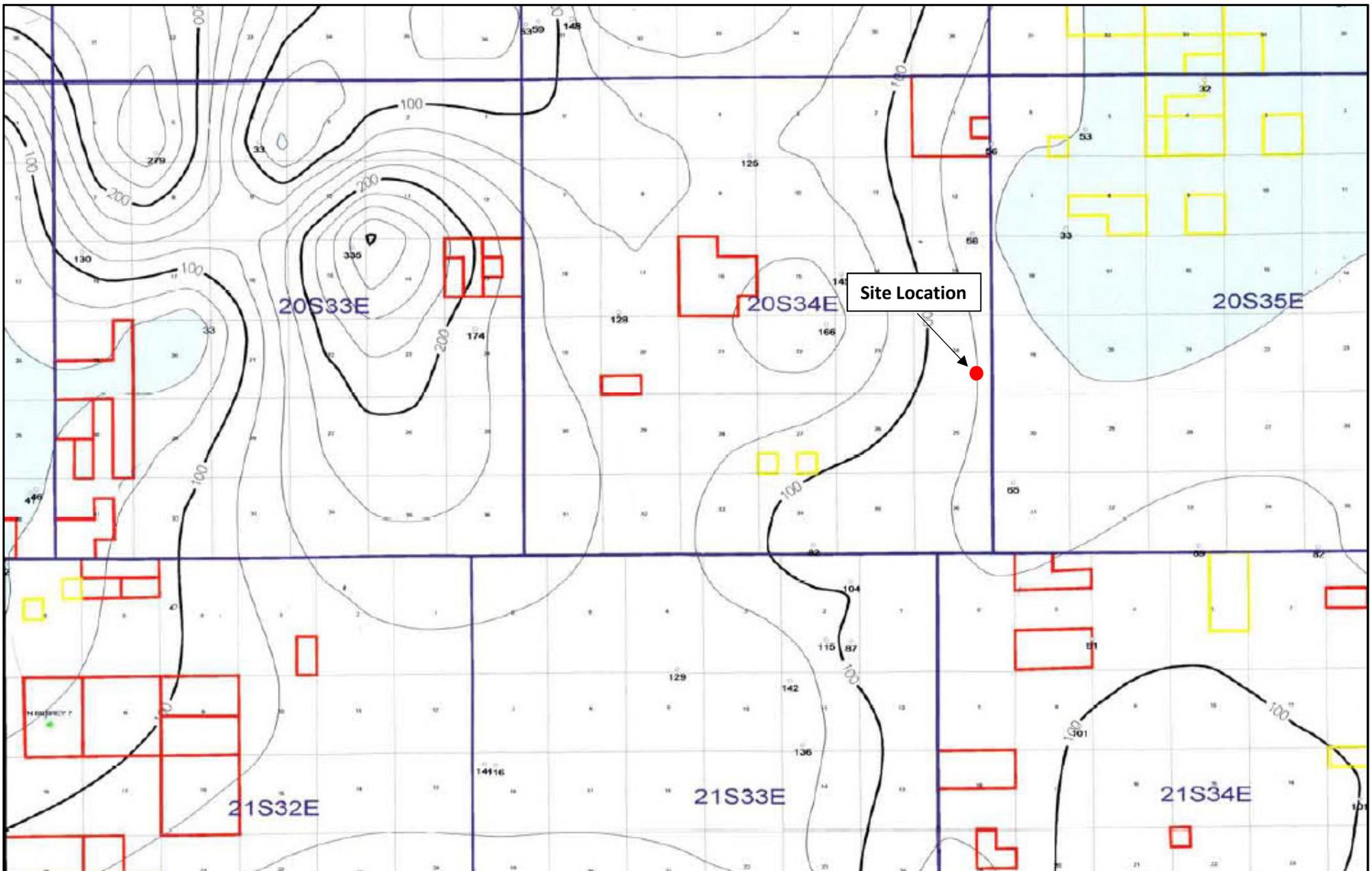
LEGEND:

●	Sample Location
---	Confirmation Sample Location
	Affected Area
	Excavated Area

Figure 3
 Site & Sample Location Map
 Legacy Reserves Operating, LP
 Lea Unit South Battery
 GPS: 32.55722, -103.511284
 Lea County, New Mexico


 Drafted by: jwl Checked by: client Date: 2/27/2019

ATTACHMENT #4
Depth to Groundwater Information



LEGEND:

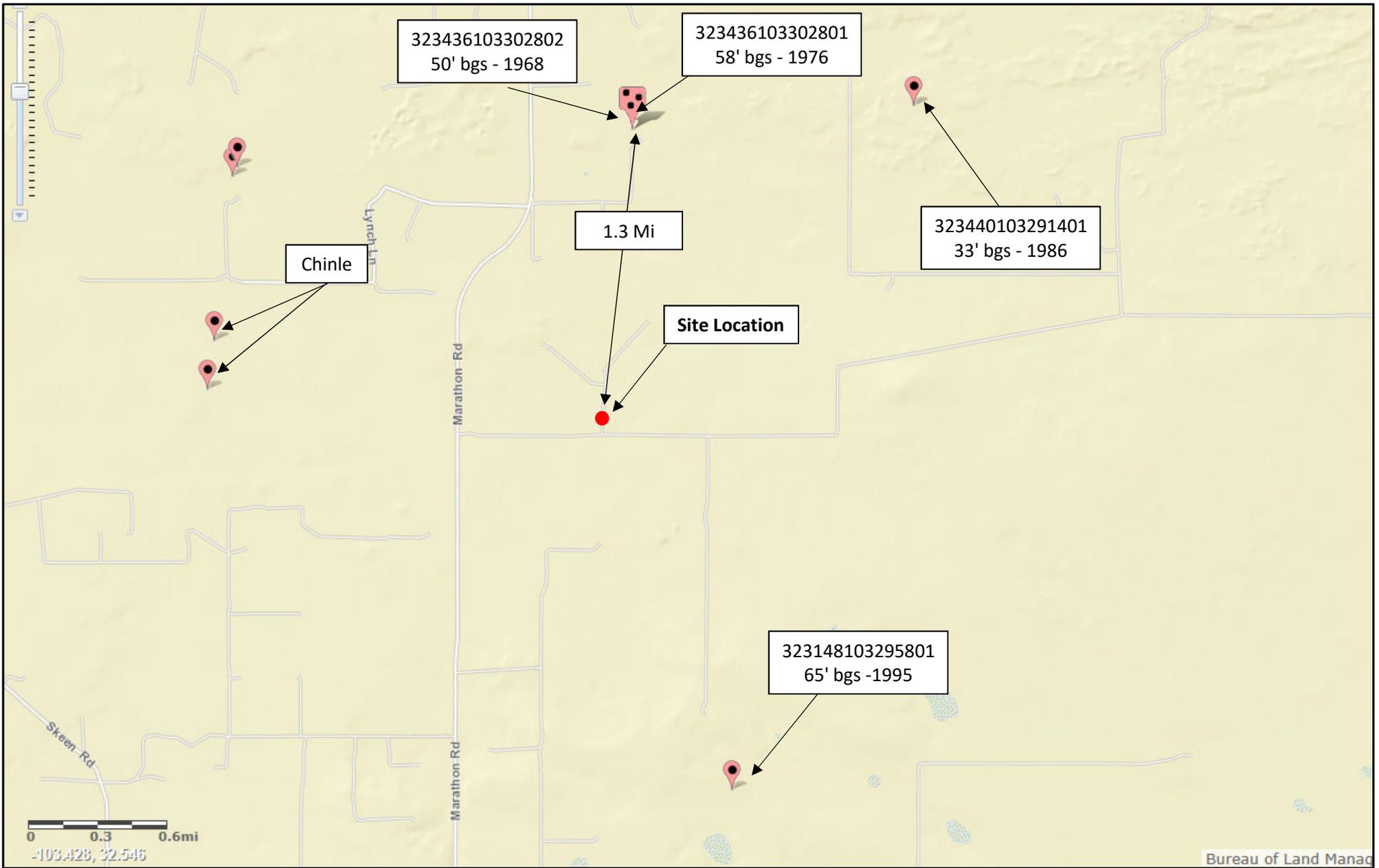
● Site Location

Figure 4
 Inferred Depth to Groundwater Trend Map
 Legacy Reserves Operating, LP
 Lea Unit South Battery
 GPS: 32.55722, -103.50805
 Lea County, New Mexico

LOWRY
 environmental



Drafted by: jwl Checked by: client Date: 12/6/2018



LEGEND:

● Site Location

Figure 5
 USGS Well Proximity Map
 Legacy Reserves Operating, LP
 Lea Unit South Battery
 GPS: 32.55722, -103.50805
 Lea County, New Mexico

LOWRY environmental

Drafted by: jwl Checked by: client Date: 12/6/2018



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

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

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

(In feet)

POD Number	Code	Sub-basin	County	Q	Q	Q	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP 00665	CP	LE	64 16 4	1	4	24	20S	34E	639740	3603128*		37	698	270	428
CP 01204 POD1	CP	LE	3 1 1	1	25	20S	34E	638755	3602250		1355	370			

Average Depth to Water: **270 feet**

Minimum Depth: **270 feet**

Maximum Depth: **270 feet**

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 639761.1

Northing (Y): 3603158.9

Radius: 1610

*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.

11/6/18 10:39 AM

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	Tws	Rng	X	Y
	CP 00665	1	4	24	20S	34E	639740	3603128*	

Driller License: 421		Driller Company: GLENN'S WATER WELL SERVICE	
Driller Name: GLENN, CLARK A."CORKY" (LD)			
Drill Start Date: 05/25/1984	Drill Finish Date: 05/28/1984	Plug Date:	
Log File Date: 06/11/1984	PCW Rev Date:	Source: Shallow	
Pump Type:	Pipe Discharge Size:	Estimated Yield: 13 GPM	
Casing Size: 6.63	Depth Well: 698 feet	Depth Water: 270 feet	

Water Bearing Stratifications:	Top	Bottom	Description
	364	396	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	360	420

*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.

11/6/18 10:39 AM

POINT OF DIVERSION SUMMARY



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Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =
• 323440103291401

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 323440103291401 20S.35E.07.44420

Available data for this site

Lea County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°34'40", Longitude 103°29'14" NAD27

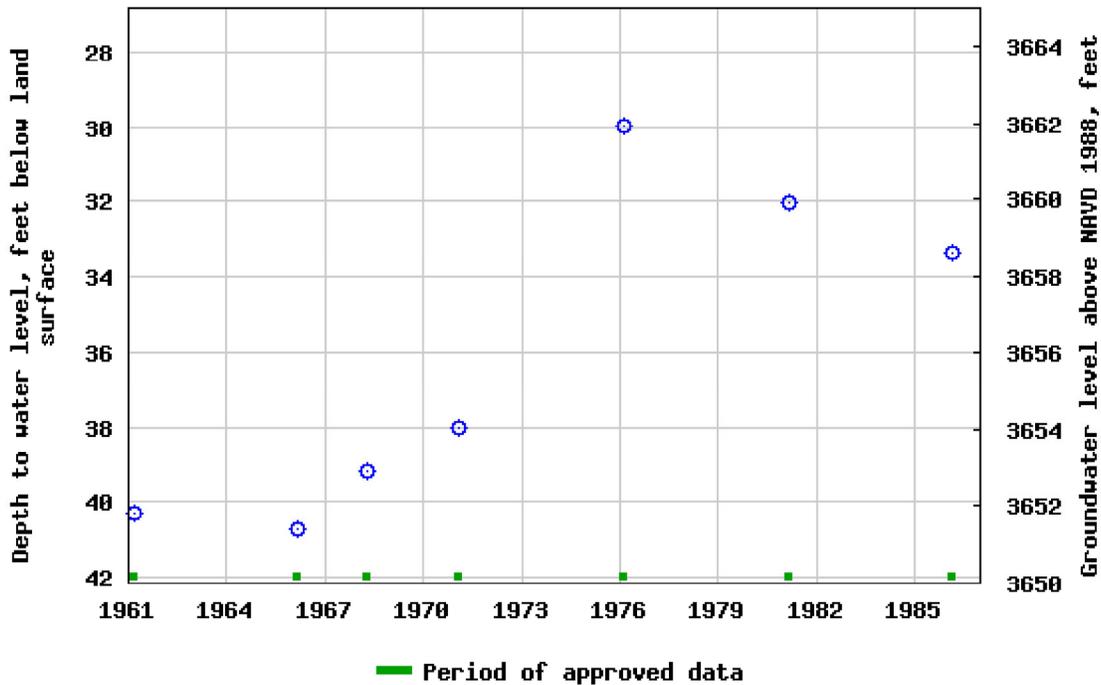
Land-surface elevation 3,692 feet above NAVD88

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
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USGS 323440103291401 20S,35E,07,44420



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1.12 1.01 nadww01



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site_no list =

- 323148103295801

Minimum number of levels = 1

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USGS 323148103295801 20S.35E.31.12311

Available data for this site

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°32'06", Longitude 103°30'03" NAD27

Land-surface elevation 3,729.00 feet above NGVD29

The depth of the well is 85 feet below land surface.

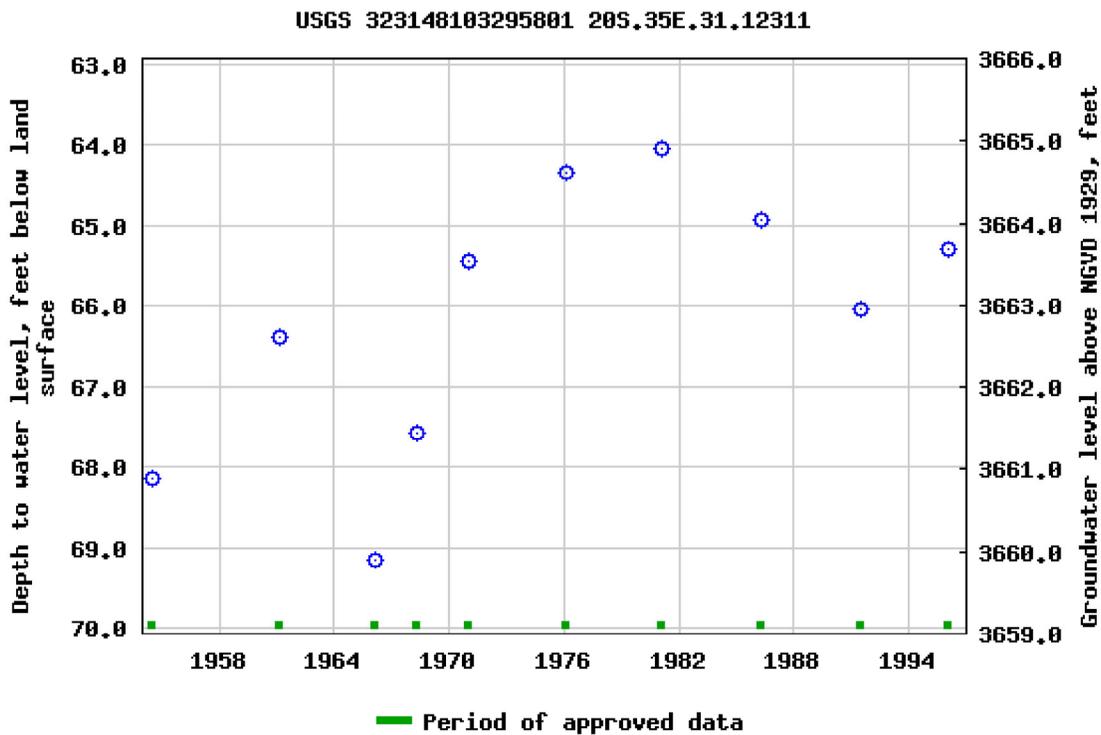
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

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1.07 0.94 nadww01



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site_no list =
• 323436103302801

Minimum number of levels = 1

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USGS 323436103302801 20S.34E.12.44333

Available data for this site

Lea County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°34'36", Longitude 103°30'28" NAD27

Land-surface elevation 3,660 feet above NAVD88

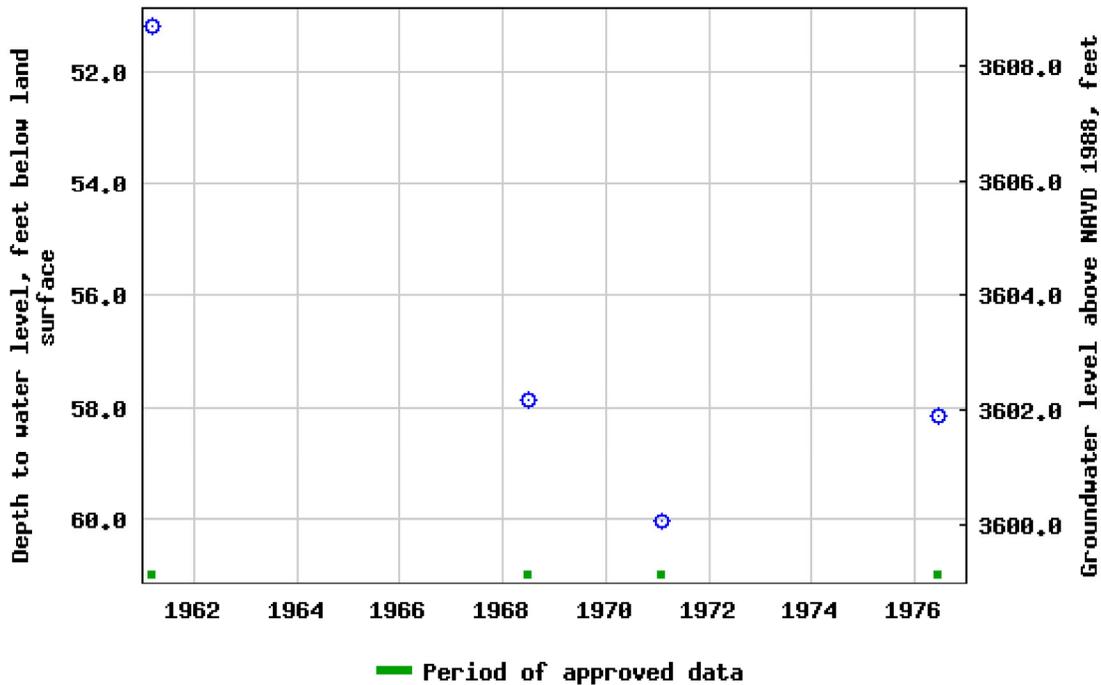
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data

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USGS 323436103302801 20S,34E,12,44333



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1.05 0.91 nadww01



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Groundwater	United States	

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Search Results -- 1 sites found

site_no list =

- 323436103302802

Minimum number of levels = 1

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USGS 323436103302802 20S.34E.12.443

Available data for this site

Lea County, New Mexico

Hydrologic Unit Code 13060011

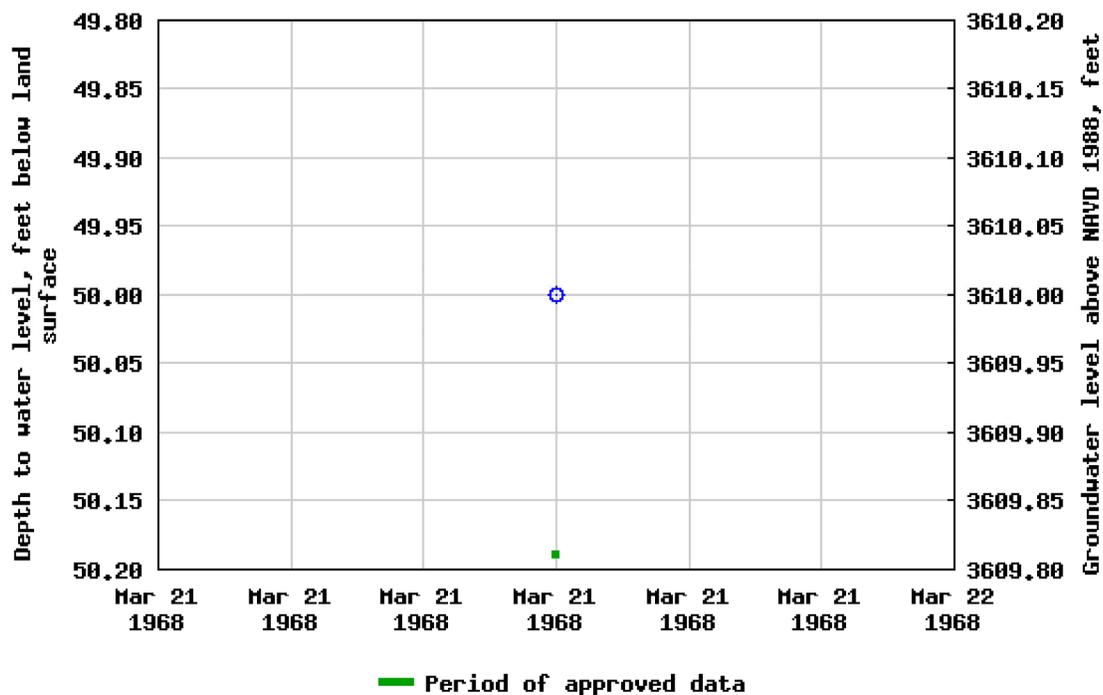
Latitude 32°34'36", Longitude 103°30'28" NAD27

Land-surface elevation 3,660 feet above NAVD88

Output formats

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

USGS 323436103302802 20S,34E,12,443



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0.99 0.89 nadww01

ATTACHMENT #5
Soil Profile

SOIL PROFILE

Site Name: Lea South Battery

Date: 11/7/2018

Description	Depth (ft. bgs)
Brown soil w/ rock	1
	2
	3
	4
	5
	6
	7
	8
	9
	0
	1
	2
	3
	4
	5
	6
	7
	8
	9
	0
	1
	2
	3
	4
	5
	6
	7
	8
	9
	0
	1
	2
	3
	4
	5
	6
	7
	8
	9
	0



TD

ATTACHMENT #6
Laboratory Analytical Reports



September 28, 2018

STEVE TAYLOR
CAPROCK SERVICES
P.O. BOX 457
LOVINGTON, NM 88260

RE: LEA BATTERY SOUTH

Enclosed are the results of analyses for samples received by the laboratory on 09/26/18 10:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

 CAPROCK SERVICES
 STEVE TAYLOR
 P.O. BOX 457
 LOVINGTON NM, 88260
 Fax To:

Received:	09/26/2018	Sampling Date:	09/26/2018
Reported:	09/28/2018	Sampling Type:	Soil
Project Name:	LEA BATTERY SOUTH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP #1 (H802713-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	09/26/2018	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2018	ND	195	97.6	200	0.158	
DRO >C10-C28*	505	10.0	09/27/2018	ND	182	90.8	200	1.35	
EXT DRO >C28-C36	131	10.0	09/27/2018	ND					

Surrogate: 1-Chlorooctane 89.7 % 41-142

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

Sample ID: SP #2 (H802713-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/26/2018	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2018	ND	195	97.6	200	0.158	
DRO >C10-C28*	270	10.0	09/27/2018	ND	182	90.8	200	1.35	
EXT DRO >C28-C36	38.4	10.0	09/27/2018	ND					

Surrogate: 1-Chlorooctane 91.2 % 41-142

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 CAPROCK SERVICES
 STEVE TAYLOR
 P.O. BOX 457
 LOVINGTON NM, 88260
 Fax To:

Received:	09/26/2018	Sampling Date:	09/26/2018
Reported:	09/28/2018	Sampling Type:	Soil
Project Name:	LEA BATTERY SOUTH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP #3 (H802713-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	09/26/2018	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2018	ND	195	97.6	200	0.158	
DRO >C10-C28*	<10.0	10.0	09/27/2018	ND	182	90.8	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	09/27/2018	ND					
<i>Surrogate: 1-Chlorooctane</i>	<i>90.9 %</i>	<i>41-142</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>89.7 %</i>	<i>37.6-147</i>							

Sample ID: SP #4 (H802713-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/26/2018	ND	416	104	400	3.77		
TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	291	10.0	09/27/2018	ND	195	97.6	200	0.158		
DRO >C10-C28*	6930	10.0	09/27/2018	ND	182	90.8	200	1.35		
EXT DRO >C28-C36	1120	10.0	09/27/2018	ND						
<i>Surrogate: 1-Chlorooctane</i>	<i>144 %</i>	<i>41-142</i>								
<i>Surrogate: 1-Chlorooctadecane</i>	<i>305 %</i>	<i>37.6-147</i>								

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 CAPROCK SERVICES
 STEVE TAYLOR
 P.O. BOX 457
 LOVINGTON NM, 88260
 Fax To:

 Received: 09/26/2018
 Reported: 09/28/2018
 Project Name: LEA BATTERY SOUTH
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 09/26/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP #5 (H802713-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/26/2018	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/27/2018	ND	195	97.6	200	0.158	
DRO >C10-C28*	2710	10.0	09/27/2018	ND	182	90.8	200	1.35	
EXT DRO >C28-C36	510	10.0	09/27/2018	ND					
<i>Surrogate: 1-Chlorooctane</i>	95.2 %	41-142							
<i>Surrogate: 1-Chlorooctadecane</i>	191 %	37.6-147							

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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.
- 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 SM450Cl-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



Celey D. Keene, Lab Director/Quality Manager



November 14, 2018

STEVE TAYLOR

CAPROCK SERVICES

P.O. BOX 457

LOVINGTON, NM 88260

RE: LEA UNIT SOUTH

Enclosed are the results of analyses for samples received by the laboratory on 11/08/18 11:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 CAPROCK SERVICES
 STEVE TAYLOR
 P.O. BOX 457
 LOVINGTON NM, 88260
 Fax To:

Received:	11/08/2018	Sampling Date:	11/07/2018
Reported:	11/14/2018	Sampling Type:	Soil
Project Name:	LEA UNIT SOUTH	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - MONUMENT NM		

Sample ID: SH @ SURFACE (H803230-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2018	ND	2.32	116	2.00	1.98	
Toluene*	<0.050	0.050	11/13/2018	ND	2.31	115	2.00	0.531	
Ethylbenzene*	<0.050	0.050	11/13/2018	ND	2.29	115	2.00	0.134	
Total Xylenes*	<0.150	0.150	11/13/2018	ND	6.71	112	6.00	0.146	
Total BTEX	<0.300	0.300	11/13/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/14/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	208	104	200	7.06	
DRO >C10-C28*	<10.0	10.0	11/09/2018	ND	209	105	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	11/09/2018	ND					

Surrogate: 1-Chlorooctane 86.9 % 41-142
Surrogate: 1-Chlorooctadecane 81.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 CAPROCK SERVICES
 STEVE TAYLOR
 P.O. BOX 457
 LOVINGTON NM, 88260
 Fax To:

 Received: 11/08/2018
 Reported: 11/14/2018
 Project Name: LEA UNIT SOUTH
 Project Number: NONE GIVEN
 Project Location: LEGACY - MONUMENT NM

 Sampling Date: 11/07/2018
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SH @ 1' (H803230-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2018	ND	2.32	116	2.00	1.98	
Toluene*	<0.050	0.050	11/13/2018	ND	2.31	115	2.00	0.531	
Ethylbenzene*	<0.050	0.050	11/13/2018	ND	2.29	115	2.00	0.134	
Total Xylenes*	<0.150	0.150	11/13/2018	ND	6.71	112	6.00	0.146	
Total BTEX	<0.300	0.300	11/13/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/14/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	208	104	200	7.06	
DRO >C10-C28*	<10.0	10.0	11/09/2018	ND	209	105	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	11/09/2018	ND					

Surrogate: 1-Chlorooctane 95.2 % 41-142

Surrogate: 1-Chlorooctadecane 87.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 CAPROCK SERVICES
 STEVE TAYLOR
 P.O. BOX 457
 LOVINGTON NM, 88260
 Fax To:

 Received: 11/08/2018
 Reported: 11/14/2018
 Project Name: LEA UNIT SOUTH
 Project Number: NONE GIVEN
 Project Location: LEGACY - MONUMENT NM

 Sampling Date: 11/07/2018
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: NH @ SURFACE (H803230-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2018	ND	2.32	116	2.00	1.98	
Toluene*	<0.050	0.050	11/13/2018	ND	2.31	115	2.00	0.531	
Ethylbenzene*	<0.050	0.050	11/13/2018	ND	2.29	115	2.00	0.134	
Total Xylenes*	<0.150	0.150	11/13/2018	ND	6.71	112	6.00	0.146	
Total BTEX	<0.300	0.300	11/13/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/14/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	208	104	200	7.06	
DRO >C10-C28*	<10.0	10.0	11/09/2018	ND	209	105	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	11/09/2018	ND					

Surrogate: 1-Chlorooctane 96.4 % 41-142

Surrogate: 1-Chlorooctadecane 86.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 CAPROCK SERVICES
 STEVE TAYLOR
 P.O. BOX 457
 LOVINGTON NM, 88260
 Fax To:

 Received: 11/08/2018
 Reported: 11/14/2018
 Project Name: LEA UNIT SOUTH
 Project Number: NONE GIVEN
 Project Location: LEGACY - MONUMENT NM

 Sampling Date: 11/07/2018
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: NH @ 1' (H803230-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2018	ND	2.32	116	2.00	1.98	
Toluene*	<0.050	0.050	11/13/2018	ND	2.31	115	2.00	0.531	
Ethylbenzene*	<0.050	0.050	11/13/2018	ND	2.29	115	2.00	0.134	
Total Xylenes*	<0.150	0.150	11/13/2018	ND	6.71	112	6.00	0.146	
Total BTEX	<0.300	0.300	11/13/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/14/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	208	104	200	7.06	
DRO >C10-C28*	<10.0	10.0	11/09/2018	ND	209	105	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	11/09/2018	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 88.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 CAPROCK SERVICES
 STEVE TAYLOR
 P.O. BOX 457
 LOVINGTON NM, 88260
 Fax To:

 Received: 11/08/2018
 Reported: 11/14/2018
 Project Name: LEA UNIT SOUTH
 Project Number: NONE GIVEN
 Project Location: LEGACY - MONUMENT NM

 Sampling Date: 11/07/2018
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: WH 1 @ SURFACE (H803230-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2018	ND	2.32	116	2.00	1.98	
Toluene*	<0.050	0.050	11/13/2018	ND	2.31	115	2.00	0.531	
Ethylbenzene*	<0.050	0.050	11/13/2018	ND	2.29	115	2.00	0.134	
Total Xylenes*	<0.150	0.150	11/13/2018	ND	6.71	112	6.00	0.146	
Total BTEX	<0.300	0.300	11/13/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/14/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	208	104	200	7.06	
DRO >C10-C28*	<10.0	10.0	11/09/2018	ND	209	105	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	11/09/2018	ND					

Surrogate: 1-Chlorooctane 99.6 % 41-142

Surrogate: 1-Chlorooctadecane 87.8 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 CAPROCK SERVICES
 STEVE TAYLOR
 P.O. BOX 457
 LOVINGTON NM, 88260
 Fax To:

 Received: 11/08/2018
 Reported: 11/14/2018
 Project Name: LEA UNIT SOUTH
 Project Number: NONE GIVEN
 Project Location: LEGACY - MONUMENT NM

 Sampling Date: 11/07/2018
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: WH 1 @ 1' (H803230-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2018	ND	2.32	116	2.00	1.98	
Toluene*	<0.050	0.050	11/13/2018	ND	2.31	115	2.00	0.531	
Ethylbenzene*	<0.050	0.050	11/13/2018	ND	2.29	115	2.00	0.134	
Total Xylenes*	<0.150	0.150	11/13/2018	ND	6.71	112	6.00	0.146	
Total BTEX	<0.300	0.300	11/13/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	11/14/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	208	104	200	7.06	
DRO >C10-C28*	63.1	10.0	11/09/2018	ND	209	105	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	11/09/2018	ND					

Surrogate: 1-Chlorooctane 112 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 CAPROCK SERVICES
 STEVE TAYLOR
 P.O. BOX 457
 LOVINGTON NM, 88260
 Fax To:

Received:	11/08/2018	Sampling Date:	11/07/2018
Reported:	11/14/2018	Sampling Type:	Soil
Project Name:	LEA UNIT SOUTH	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - MONUMENT NM		

Sample ID: WH 2 @ SURFACE (H803230-07)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/14/2018	ND	2.48	124	2.00	1.94		
Toluene*	<0.050	0.050	11/14/2018	ND	2.41	120	2.00	1.28		
Ethylbenzene*	<0.050	0.050	11/14/2018	ND	2.35	118	2.00	2.21		
Total Xylenes*	<0.150	0.150	11/14/2018	ND	7.33	122	6.00	1.96		
Total BTEX	<0.300	0.300	11/14/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	11/14/2018	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	208	104	200	7.06		
DRO >C10-C28*	<10.0	10.0	11/09/2018	ND	209	105	200	2.36		
EXT DRO >C28-C36	<10.0	10.0	11/09/2018	ND						

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 93.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 CAPROCK SERVICES
 STEVE TAYLOR
 P.O. BOX 457
 LOVINGTON NM, 88260
 Fax To:

 Received: 11/08/2018
 Reported: 11/14/2018
 Project Name: LEA UNIT SOUTH
 Project Number: NONE GIVEN
 Project Location: LEGACY - MONUMENT NM

 Sampling Date: 11/07/2018
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: WH 2 @ 1' (H803230-08)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2018	ND	2.48	124	2.00	1.94	
Toluene*	<0.050	0.050	11/14/2018	ND	2.41	120	2.00	1.28	
Ethylbenzene*	<0.050	0.050	11/14/2018	ND	2.35	118	2.00	2.21	
Total Xylenes*	<0.150	0.150	11/14/2018	ND	7.33	122	6.00	1.96	
Total BTEX	<0.300	0.300	11/14/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/14/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	208	104	200	7.06	
DRO >C10-C28*	<10.0	10.0	11/09/2018	ND	209	105	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	11/09/2018	ND					

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 97.6 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 CAPROCK SERVICES
 STEVE TAYLOR
 P.O. BOX 457
 LOVINGTON NM, 88260
 Fax To:

 Received: 11/08/2018
 Reported: 11/14/2018
 Project Name: LEA UNIT SOUTH
 Project Number: NONE GIVEN
 Project Location: LEGACY - MONUMENT NM

 Sampling Date: 11/07/2018
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: EH 1 @ SURFACE (H803230-09)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2018	ND	2.24	112	2.00	5.73	
Toluene*	<0.050	0.050	11/13/2018	ND	2.28	114	2.00	5.98	
Ethylbenzene*	<0.050	0.050	11/13/2018	ND	2.23	112	2.00	5.81	
Total Xylenes*	<0.150	0.150	11/13/2018	ND	6.57	110	6.00	6.22	
Total BTEX	<0.300	0.300	11/13/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/14/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	208	104	200	7.06	
DRO >C10-C28*	<10.0	10.0	11/09/2018	ND	209	105	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	11/09/2018	ND					

Surrogate: 1-Chlorooctane 99.2 % 41-142

Surrogate: 1-Chlorooctadecane 85.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 CAPROCK SERVICES
 STEVE TAYLOR
 P.O. BOX 457
 LOVINGTON NM, 88260
 Fax To:

 Received: 11/08/2018
 Reported: 11/14/2018
 Project Name: LEA UNIT SOUTH
 Project Number: NONE GIVEN
 Project Location: LEGACY - MONUMENT NM

 Sampling Date: 11/07/2018
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: EH 1 @ 1' (H803230-10)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2018	ND	2.24	112	2.00	5.73	
Toluene*	<0.050	0.050	11/13/2018	ND	2.28	114	2.00	5.98	
Ethylbenzene*	<0.050	0.050	11/13/2018	ND	2.23	112	2.00	5.81	
Total Xylenes*	<0.150	0.150	11/13/2018	ND	6.57	110	6.00	6.22	
Total BTEX	<0.300	0.300	11/13/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/14/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	208	104	200	7.06	
DRO >C10-C28*	<10.0	10.0	11/09/2018	ND	209	105	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	11/09/2018	ND					

Surrogate: 1-Chlorooctane 110 % 41-142

Surrogate: 1-Chlorooctadecane 96.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 CAPROCK SERVICES
 STEVE TAYLOR
 P.O. BOX 457
 LOVINGTON NM, 88260
 Fax To:

Received:	11/08/2018	Sampling Date:	11/07/2018
Reported:	11/14/2018	Sampling Type:	Soil
Project Name:	LEA UNIT SOUTH	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - MONUMENT NM		

Sample ID: EH 2 @ SURFACE (H803230-11)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2018	ND	2.24	112	2.00	5.73	
Toluene*	<0.050	0.050	11/13/2018	ND	2.28	114	2.00	5.98	
Ethylbenzene*	<0.050	0.050	11/13/2018	ND	2.23	112	2.00	5.81	
Total Xylenes*	<0.150	0.150	11/13/2018	ND	6.57	110	6.00	6.22	
Total BTEX	<0.300	0.300	11/13/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/14/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	208	104	200	7.06	
DRO >C10-C28*	<10.0	10.0	11/09/2018	ND	209	105	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	11/09/2018	ND					

Surrogate: 1-Chlorooctane 98.7 % 41-142

Surrogate: 1-Chlorooctadecane 86.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 CAPROCK SERVICES
 STEVE TAYLOR
 P.O. BOX 457
 LOVINGTON NM, 88260
 Fax To:

 Received: 11/08/2018
 Reported: 11/14/2018
 Project Name: LEA UNIT SOUTH
 Project Number: NONE GIVEN
 Project Location: LEGACY - MONUMENT NM

 Sampling Date: 11/07/2018
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: EH 2 @ 1' (H803230-12)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2018	ND	2.24	112	2.00	5.73	
Toluene*	<0.050	0.050	11/13/2018	ND	2.28	114	2.00	5.98	
Ethylbenzene*	<0.050	0.050	11/13/2018	ND	2.23	112	2.00	5.81	
Total Xylenes*	<0.150	0.150	11/13/2018	ND	6.57	110	6.00	6.22	
Total BTEX	<0.300	0.300	11/13/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/14/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	208	104	200	7.06	
DRO >C10-C28*	<10.0	10.0	11/09/2018	ND	209	105	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	11/09/2018	ND					

Surrogate: 1-Chlorooctane 108 % 41-142

Surrogate: 1-Chlorooctadecane 92.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 CAPROCK SERVICES
 STEVE TAYLOR
 P.O. BOX 457
 LOVINGTON NM, 88260
 Fax To:

 Received: 11/08/2018
 Reported: 11/14/2018
 Project Name: LEA UNIT SOUTH
 Project Number: NONE GIVEN
 Project Location: LEGACY - MONUMENT NM

 Sampling Date: 11/07/2018
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SP 4 B @ 3' (H803230-13)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2018	ND	2.24	112	2.00	5.73	
Toluene*	<0.050	0.050	11/13/2018	ND	2.28	114	2.00	5.98	
Ethylbenzene*	<0.050	0.050	11/13/2018	ND	2.23	112	2.00	5.81	
Total Xylenes*	<0.150	0.150	11/13/2018	ND	6.57	110	6.00	6.22	
Total BTEX	<0.300	0.300	11/13/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/14/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	208	104	200	7.06	
DRO >C10-C28*	22.5	10.0	11/09/2018	ND	209	105	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	11/09/2018	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 94.8 % 37.6-147

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 CAPROCK SERVICES
 STEVE TAYLOR
 P.O. BOX 457
 LOVINGTON NM, 88260
 Fax To:

 Received: 11/08/2018
 Reported: 11/14/2018
 Project Name: LEA UNIT SOUTH
 Project Number: NONE GIVEN
 Project Location: LEGACY - MONUMENT NM

 Sampling Date: 11/07/2018
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SP 5 B @ 3' (H803230-14)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2018	ND	2.24	112	2.00	5.73	
Toluene*	<0.050	0.050	11/13/2018	ND	2.28	114	2.00	5.98	
Ethylbenzene*	<0.050	0.050	11/13/2018	ND	2.23	112	2.00	5.81	
Total Xylenes*	<0.150	0.150	11/13/2018	ND	6.57	110	6.00	6.22	
Total BTEX	<0.300	0.300	11/13/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/14/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/09/2018	ND	208	104	200	7.06	
DRO >C10-C28*	<10.0	10.0	11/09/2018	ND	209	105	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	11/09/2018	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 87.5 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- BS1 Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

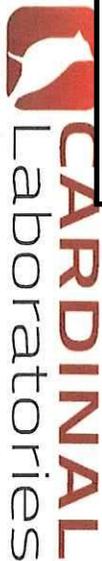
Company Name: Caprock Services
 Project Manager: Steve Taylor
 Address: Lovington State: NM Zip: 88260
 City: Lovington State: NM Zip: 88260
 Phone #: (575) 764-9718 Fax #:
 Project #: Project Owner: Legacy
 Project Name: Lea Unit South
 Project Location: Management, um
 Sampler Name: Matt Taylor
 P.O. #:
 Company: Caprock Services
 Address: Steve Taylor PO Box 457
 City: Lovington
 State: NM Zip: 88260
 Phone #: (575) 764-2718
 Fax #:
 MATRIX: SOIL, OIL, SLUDGE, OTHER:
 PRESERV: ICE / COOL, OTHER:
 SAMPLING: DATE, TIME

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTEX	TPH	CI
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
A803230	1 SH @ Surface	G	1			X								
	2 SH @ 2'	G	1			X								
	3 NHO Surface	G	1			X								
	4 WH @ 2'	G	1			X								
	5 WH 2 @ Surface	G	1			X								
	6 WH 1 @ 2'	G	1			X								
	7 WH 2 @ Surface	G	1			X								
	8 WH 2 @ 2'	G	1			X								
	9 EH 1 @ Surface	G	1			X								
	10 EH 1 @ 2'	G	1			X								

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Relinquished By: *[Signature]* Date: 11-7-18
 Received By: *[Signature]* Date: 11-7-18
 Delivered By: (Circle One) Sampler - UPS - Bus - Other: 8.2e #97
 Sample Condition: Cool Intact Yes No
 CHECKED BY: (Initials) *[Initials]*
 REMARKS:
 Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 joel@lowryenvironmental.com
 matt.caprockservices@gmail.com
 caprockservices56@gmail.com

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Caprock Services		BILL TO		ANALYSIS REQUEST															
Project Manager: Steve Taylor		P.O. #:																	
Address:		Company: Caprock Services																	
City: Lovington State: NM Zip: 88260		Attn:																	
Phone #: (575) 704-2718 Fax #:		Address: Steve Taylor		PO Box 457															
Project #:		City: Lovington																	
Project Name: Lea Unit South		State: NM Zip: 88260																	
Project Location: Monument Run		Phone #: (575) 704-2718																	
Sampler Name: Matt Taylor		Fax #:																	
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME											
H1803230	EH 20 Surface	G 1	6 1	GROUNDWATER			11-7-18	8:50AM	X	X	X								
	EH 20 1'	G 1	6 1	WASTEWATER			11-7-18	8:55AM	X	X	X								
	SP4B@3'	G 1	6 1	SOIL			11-7-18	9:00AM	X	X	X								
	SP5B@3'	G 1	6 1	SOIL			11-7-18	9:05AM	X	X	X								
				SOIL															
				WASTEWATER															
				SLUDGE															
				OTHER :															
				ACID/BASE:															
				ICE / COOL															
				OTHER :															

Handwritten notes in table:
 Row 1: BTEX, TPH, CI-
 Row 2: BTEX, TPH, CI-
 Row 3: BTEX, TPH, CI-
 Row 4: BTEX, TPH, CI-

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Relinquished By: *[Signature]* Date: 11-7-18
 Received By: *[Signature]* Date: 11-7-18

Delivered By: (Circle One) UPS - Bus - Other: 8:20 #97

Sample Condition: Cool Intact Yes No Yes No No

CHECKED BY: (Initials) *TD*

REMARKS: *ioel@lowrenenvironmental.com matt.caprockservices@gmail.com caprockservices56@gmail.com*

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



November 25, 2018

STEVE TAYLOR

CAPROCK SERVICES

P.O. BOX 457

LOVINGTON, NM 88260

RE: LEA BATTERY SOUTH

Enclosed are the results of analyses for samples received by the laboratory on 11/16/18 15:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 CAPROCK SERVICES
 STEVE TAYLOR
 P.O. BOX 457
 LOVINGTON NM, 88260
 Fax To:

Received:	11/16/2018	Sampling Date:	11/16/2018
Reported:	11/25/2018	Sampling Type:	Soil
Project Name:	LEA BATTERY SOUTH	Sampling Condition:	Cool & Intact
Project Number:	TANK	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PAST. 0-3" (H803354-01)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/21/2018	ND	2.07	103	2.00	2.33	
Toluene*	<0.050	0.050	11/21/2018	ND	2.01	100	2.00	3.28	
Ethylbenzene*	<0.050	0.050	11/21/2018	ND	1.93	96.7	2.00	3.37	
Total Xylenes*	<0.150	0.150	11/21/2018	ND	6.03	101	6.00	3.13	
Total BTEX	<0.300	0.300	11/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	11/20/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	27.4	10.0	11/20/2018	ND	173	86.5	200	8.40		
DRO >C10-C28*	7210	10.0	11/20/2018	ND	196	98.1	200	6.09		
EXT DRO >C28-C36	1320	10.0	11/20/2018	ND						

Surrogate: 1-Chlorooctane 87.4 % 41-142

Surrogate: 1-Chlorooctadecane 184 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 CAPROCK SERVICES
 STEVE TAYLOR
 P.O. BOX 457
 LOVINGTON NM, 88260
 Fax To:

 Received: 11/16/2018
 Reported: 11/25/2018
 Project Name: LEA BATTERY SOUTH
 Project Number: TANK
 Project Location: NOT GIVEN

 Sampling Date: 11/16/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PAST. 3-6" (H803354-02)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/21/2018	ND	2.07	103	2.00	2.33	
Toluene*	<0.050	0.050	11/21/2018	ND	2.01	100	2.00	3.28	
Ethylbenzene*	<0.050	0.050	11/21/2018	ND	1.93	96.7	2.00	3.37	
Total Xylenes*	<0.150	0.150	11/21/2018	ND	6.03	101	6.00	3.13	
Total BTEX	<0.300	0.300	11/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	11/20/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/20/2018	ND	173	86.5	200	8.40		
DRO >C10-C28*	3150	10.0	11/20/2018	ND	196	98.1	200	6.09		
EXT DRO >C28-C36	908	10.0	11/20/2018	ND						

Surrogate: 1-Chlorooctane 70.6 % 41-142

Surrogate: 1-Chlorooctadecane 217 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 CAPROCK SERVICES
 STEVE TAYLOR
 P.O. BOX 457
 LOVINGTON NM, 88260
 Fax To:

 Received: 11/16/2018
 Reported: 11/25/2018
 Project Name: LEA BATTERY SOUTH
 Project Number: TANK
 Project Location: NOT GIVEN

 Sampling Date: 11/16/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: ROAD COMP. (H803354-03)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/21/2018	ND	2.07	103	2.00	2.33	
Toluene*	<0.050	0.050	11/21/2018	ND	2.01	100	2.00	3.28	
Ethylbenzene*	<0.050	0.050	11/21/2018	ND	1.93	96.7	2.00	3.37	
Total Xylenes*	<0.150	0.150	11/21/2018	ND	6.03	101	6.00	3.13	
Total BTEX	<0.300	0.300	11/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	11/20/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2018	ND	173	86.5	200	8.40	
DRO >C10-C28*	758	10.0	11/20/2018	ND	196	98.1	200	6.09	
EXT DRO >C28-C36	303	10.0	11/20/2018	ND					

Surrogate: 1-Chlorooctane 76.7 % 41-142

Surrogate: 1-Chlorooctadecane 116 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 CAPROCK SERVICES
 STEVE TAYLOR
 P.O. BOX 457
 LOVINGTON NM, 88260
 Fax To:

Received:	11/16/2018	Sampling Date:	11/16/2018
Reported:	11/25/2018	Sampling Type:	Soil
Project Name:	LEA BATTERY SOUTH	Sampling Condition:	Cool & Intact
Project Number:	TANK	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SW FLOOR COMP. (H803354-04)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/21/2018	ND	2.07	103	2.00	2.33		
Toluene*	<0.050	0.050	11/21/2018	ND	2.01	100	2.00	3.28		
Ethylbenzene*	<0.050	0.050	11/21/2018	ND	1.93	96.7	2.00	3.37		
Total Xylenes*	<0.150	0.150	11/21/2018	ND	6.03	101	6.00	3.13		
Total BTEX	<0.300	0.300	11/21/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	864	16.0	11/20/2018	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	21.7	10.0	11/20/2018	ND	173	86.5	200	8.40		
DRO >C10-C28*	1660	10.0	11/20/2018	ND	196	98.1	200	6.09		
EXT DRO >C28-C36	343	10.0	11/20/2018	ND						

Surrogate: 1-Chlorooctane 93.8 % 41-142

Surrogate: 1-Chlorooctadecane 118 % 37.6-147

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 CAPROCK SERVICES
 STEVE TAYLOR
 P.O. BOX 457
 LOVINGTON NM, 88260
 Fax To:

Received:	11/16/2018	Sampling Date:	11/16/2018
Reported:	11/25/2018	Sampling Type:	Soil
Project Name:	LEA BATTERY SOUTH	Sampling Condition:	Cool & Intact
Project Number:	TANK	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SE FLOOR COMP. (H803354-05)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/21/2018	ND	2.07	103	2.00	2.33	
Toluene*	0.052	0.050	11/21/2018	ND	2.01	100	2.00	3.28	
Ethylbenzene*	0.087	0.050	11/21/2018	ND	1.93	96.7	2.00	3.37	
Total Xylenes*	0.316	0.150	11/21/2018	ND	6.03	101	6.00	3.13	
Total BTEX	0.455	0.300	11/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	11/20/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/20/2018	ND	188	93.9	200	10.6		
DRO >C10-C28*	3180	10.0	11/20/2018	ND	168	84.0	200	7.69	QM-07	
EXT DRO >C28-C36	800	10.0	11/20/2018	ND						

Surrogate: 1-Chlorooctane 68.9 % 41-142

Surrogate: 1-Chlorooctadecane 191 % 37.6-147

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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 recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report



Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1041

Company Name: <u>Legacy Laundry</u>		P.O. #:		BILL TO	
Project Manager: <u>Soel Lowery</u>		Company: <u>Garrett Services</u>			
Address:		Attn: <u>Steve Taylor</u>		ANALYSIS REQUEST	
City: _____ State: _____ Zip: _____		Address: _____			
Phone #: _____ Fax #: _____		City: <u>Lovington</u>			
Project #: _____		State: <u>NM</u> Zip: <u>88240</u>			
Project Name: <u>Lowry Truck Rental Laundry</u>		Phone #: _____			
Project Location: <u>Lowry Co, NM</u>		Fax #: _____			
Sampler Name: <u>Soel Lowery</u>					
FOR LAB USE ONLY					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS		
<u>HSD9354</u>	<u>1</u>	<u>6</u>	<u>1</u>		
	<u>2</u>	<u>6</u>	<u>1</u>		
	<u>3</u>	<u>6</u>	<u>1</u>		
	<u>4</u>	<u>6</u>	<u>1</u>		
	<u>5</u>	<u>6</u>	<u>1</u>		
	<u>6</u>	<u>6</u>	<u>1</u>		
	<u>7</u>	<u>6</u>	<u>1</u>		
	<u>8</u>	<u>6</u>	<u>1</u>		
	<u>9</u>	<u>6</u>	<u>1</u>		
	<u>10</u>	<u>6</u>	<u>1</u>		
	<u>11</u>	<u>6</u>	<u>1</u>		
	<u>12</u>	<u>6</u>	<u>1</u>		
	<u>13</u>	<u>6</u>	<u>1</u>		
	<u>14</u>	<u>6</u>	<u>1</u>		
	<u>15</u>	<u>6</u>	<u>1</u>		
	<u>16</u>	<u>6</u>	<u>1</u>		
	<u>17</u>	<u>6</u>	<u>1</u>		
	<u>18</u>	<u>6</u>	<u>1</u>		
	<u>19</u>	<u>6</u>	<u>1</u>		
	<u>20</u>	<u>6</u>	<u>1</u>		
	<u>21</u>	<u>6</u>	<u>1</u>		
	<u>22</u>	<u>6</u>	<u>1</u>		
	<u>23</u>	<u>6</u>	<u>1</u>		
	<u>24</u>	<u>6</u>	<u>1</u>		
	<u>25</u>	<u>6</u>	<u>1</u>		
	<u>26</u>	<u>6</u>	<u>1</u>		
	<u>27</u>	<u>6</u>	<u>1</u>		
	<u>28</u>	<u>6</u>	<u>1</u>		
	<u>29</u>	<u>6</u>	<u>1</u>		
	<u>30</u>	<u>6</u>	<u>1</u>		
	<u>31</u>	<u>6</u>	<u>1</u>		
	<u>32</u>	<u>6</u>	<u>1</u>		
	<u>33</u>	<u>6</u>	<u>1</u>		
	<u>34</u>	<u>6</u>	<u>1</u>		
	<u>35</u>	<u>6</u>	<u>1</u>		
	<u>36</u>	<u>6</u>	<u>1</u>		
	<u>37</u>	<u>6</u>	<u>1</u>		
	<u>38</u>	<u>6</u>	<u>1</u>		
	<u>39</u>	<u>6</u>	<u>1</u>		
	<u>40</u>	<u>6</u>	<u>1</u>		
	<u>41</u>	<u>6</u>	<u>1</u>		
	<u>42</u>	<u>6</u>	<u>1</u>		
	<u>43</u>	<u>6</u>	<u>1</u>		
	<u>44</u>	<u>6</u>	<u>1</u>		
	<u>45</u>	<u>6</u>	<u>1</u>		
	<u>46</u>	<u>6</u>	<u>1</u>		
	<u>47</u>	<u>6</u>	<u>1</u>		
	<u>48</u>	<u>6</u>	<u>1</u>		
	<u>49</u>	<u>6</u>	<u>1</u>		
	<u>50</u>	<u>6</u>	<u>1</u>		
	<u>51</u>	<u>6</u>	<u>1</u>		
	<u>52</u>	<u>6</u>	<u>1</u>		
	<u>53</u>	<u>6</u>	<u>1</u>		
	<u>54</u>	<u>6</u>	<u>1</u>		
	<u>55</u>	<u>6</u>	<u>1</u>		
	<u>56</u>	<u>6</u>	<u>1</u>		
	<u>57</u>	<u>6</u>	<u>1</u>		
	<u>58</u>	<u>6</u>	<u>1</u>		
	<u>59</u>	<u>6</u>	<u>1</u>		
	<u>60</u>	<u>6</u>	<u>1</u>		
	<u>61</u>	<u>6</u>	<u>1</u>		
	<u>62</u>	<u>6</u>	<u>1</u>		
	<u>63</u>	<u>6</u>	<u>1</u>		
	<u>64</u>	<u>6</u>	<u>1</u>		
	<u>65</u>	<u>6</u>	<u>1</u>		
	<u>66</u>	<u>6</u>	<u>1</u>		
	<u>67</u>	<u>6</u>	<u>1</u>		
	<u>68</u>	<u>6</u>	<u>1</u>		
	<u>69</u>	<u>6</u>	<u>1</u>		
	<u>70</u>	<u>6</u>	<u>1</u>		
	<u>71</u>	<u>6</u>	<u>1</u>		
	<u>72</u>	<u>6</u>	<u>1</u>		
	<u>73</u>	<u>6</u>	<u>1</u>		
	<u>74</u>	<u>6</u>	<u>1</u>		
	<u>75</u>	<u>6</u>	<u>1</u>		
	<u>76</u>	<u>6</u>	<u>1</u>		
	<u>77</u>	<u>6</u>	<u>1</u>		
	<u>78</u>	<u>6</u>	<u>1</u>		
	<u>79</u>	<u>6</u>	<u>1</u>		
	<u>80</u>	<u>6</u>	<u>1</u>		
	<u>81</u>	<u>6</u>	<u>1</u>		
	<u>82</u>	<u>6</u>	<u>1</u>		
	<u>83</u>	<u>6</u>	<u>1</u>		
	<u>84</u>	<u>6</u>	<u>1</u>		
	<u>85</u>	<u>6</u>	<u>1</u>		
	<u>86</u>	<u>6</u>	<u>1</u>		
	<u>87</u>	<u>6</u>	<u>1</u>		
	<u>88</u>	<u>6</u>	<u>1</u>		
	<u>89</u>	<u>6</u>	<u>1</u>		
	<u>90</u>	<u>6</u>	<u>1</u>		
	<u>91</u>	<u>6</u>	<u>1</u>		
	<u>92</u>	<u>6</u>	<u>1</u>		
	<u>93</u>	<u>6</u>	<u>1</u>		
	<u>94</u>	<u>6</u>	<u>1</u>		
	<u>95</u>	<u>6</u>	<u>1</u>		
	<u>96</u>	<u>6</u>	<u>1</u>		
	<u>97</u>	<u>6</u>	<u>1</u>		
	<u>98</u>	<u>6</u>	<u>1</u>		
	<u>99</u>	<u>6</u>	<u>1</u>		
	<u>100</u>	<u>6</u>	<u>1</u>		

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Relinquished By: Soel Lowery Date: 11/16/18 Received By: Soel Lowery

Relinquished By: _____ Date: _____ Received By: _____

Time: _____

Delivered By: (Circle One) UPS - UPS - Bus - Other: 5:20 / # 97

Sample Condition: Cool Intact Yes No

CHECKED BY: (Initials) [Signature]

Phone Result: Yes No Add'l Phone #: _____

Fax Result: Yes No Add'l Fax #: _____

REMARKS: _____

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



December 18, 2018

STEVE TAYLOR

CAPROCK SERVICES

P.O. BOX 457

LOVINGTON, NM 88260

RE: LEA UNIT SOUTH

Enclosed are the results of analyses for samples received by the laboratory on 12/12/18 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 CAPROCK SERVICES
 STEVE TAYLOR
 P.O. BOX 457
 LOVINGTON NM, 88260
 Fax To:

Received:	12/12/2018	Sampling Date:	12/11/2018
Reported:	12/18/2018	Sampling Type:	Soil
Project Name:	LEA UNIT SOUTH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - MONUMENT NM		

Sample ID: N. FLOOR COMP (H803644-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2018	ND	1.86	93.1	2.00	0.550	
Toluene*	<0.050	0.050	12/13/2018	ND	1.79	89.5	2.00	1.12	
Ethylbenzene*	<0.050	0.050	12/13/2018	ND	1.72	86.2	2.00	1.48	
Total Xylenes*	<0.150	0.150	12/13/2018	ND	5.13	85.5	6.00	0.835	
Total BTEX	<0.300	0.300	12/13/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/13/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2018	ND	198	99.0	200	2.55	
DRO >C10-C28*	216	10.0	12/13/2018	ND	236	118	200	3.76	
EXT DRO >C28-C36	32.9	10.0	12/13/2018	ND					

Surrogate: 1-Chlorooctane 76.2 % 41-142

Surrogate: 1-Chlorooctadecane 87.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 CAPROCK SERVICES
 STEVE TAYLOR
 P.O. BOX 457
 LOVINGTON NM, 88260
 Fax To:

 Received: 12/12/2018
 Reported: 12/18/2018
 Project Name: LEA UNIT SOUTH
 Project Number: NONE GIVEN
 Project Location: LEGACY - MONUMENT NM

 Sampling Date: 12/11/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S. FLOOR COMP (H803644-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2018	ND	1.86	93.1	2.00	0.550	
Toluene*	<0.050	0.050	12/13/2018	ND	1.79	89.5	2.00	1.12	
Ethylbenzene*	<0.050	0.050	12/13/2018	ND	1.72	86.2	2.00	1.48	
Total Xylenes*	<0.150	0.150	12/13/2018	ND	5.13	85.5	6.00	0.835	
Total BTEX	<0.300	0.300	12/13/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/13/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2018	ND	198	99.0	200	2.55	
DRO >C10-C28*	31.3	10.0	12/13/2018	ND	236	118	200	3.76	
EXT DRO >C28-C36	<10.0	10.0	12/13/2018	ND					

Surrogate: 1-Chlorooctane 84.8 % 41-142

Surrogate: 1-Chlorooctadecane 82.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 CAPROCK SERVICES
 STEVE TAYLOR
 P.O. BOX 457
 LOVINGTON NM, 88260
 Fax To:

Received:	12/12/2018	Sampling Date:	12/11/2018
Reported:	12/18/2018	Sampling Type:	Soil
Project Name:	LEA UNIT SOUTH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEGACY - MONUMENT NM		

Sample ID: WP COMP #1 (H803644-03)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/13/2018	ND	1.86	93.1	2.00	0.550		
Toluene*	<0.050	0.050	12/13/2018	ND	1.79	89.5	2.00	1.12		
Ethylbenzene*	<0.050	0.050	12/13/2018	ND	1.72	86.2	2.00	1.48		
Total Xylenes*	<0.150	0.150	12/13/2018	ND	5.13	85.5	6.00	0.835		
Total BTEX	<0.300	0.300	12/13/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	12/13/2018	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/13/2018	ND	198	99.0	200	2.55		
DRO >C10-C28*	205	10.0	12/13/2018	ND	236	118	200	3.76		
EXT DRO >C28-C36	22.0	10.0	12/13/2018	ND						

Surrogate: 1-Chlorooctane 81.6 % 41-142

Surrogate: 1-Chlorooctadecane 87.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 CAPROCK SERVICES
 STEVE TAYLOR
 P.O. BOX 457
 LOVINGTON NM, 88260
 Fax To:

 Received: 12/12/2018
 Reported: 12/18/2018
 Project Name: LEA UNIT SOUTH
 Project Number: NONE GIVEN
 Project Location: LEGACY - MONUMENT NM

 Sampling Date: 12/11/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WP COMP #2 (H803644-04)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/13/2018	ND	1.86	93.1	2.00	0.550		
Toluene*	<0.050	0.050	12/13/2018	ND	1.79	89.5	2.00	1.12		
Ethylbenzene*	<0.050	0.050	12/13/2018	ND	1.72	86.2	2.00	1.48		
Total Xylenes*	<0.150	0.150	12/13/2018	ND	5.13	85.5	6.00	0.835		
Total BTEX	<0.300	0.300	12/13/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	12/13/2018	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/13/2018	ND	198	99.0	200	2.55		
DRO >C10-C28*	246	10.0	12/13/2018	ND	236	118	200	3.76		
EXT DRO >C28-C36	23.5	10.0	12/13/2018	ND						

Surrogate: 1-Chlorooctane 82.2 % 41-142

Surrogate: 1-Chlorooctadecane 92.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 CAPROCK SERVICES
 STEVE TAYLOR
 P.O. BOX 457
 LOVINGTON NM, 88260
 Fax To:

 Received: 12/12/2018
 Reported: 12/18/2018
 Project Name: LEA UNIT SOUTH
 Project Number: NONE GIVEN
 Project Location: LEGACY - MONUMENT NM

 Sampling Date: 12/11/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PAST. COMP (H803644-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/13/2018	ND	1.86	93.1	2.00	0.550	
Toluene*	<0.050	0.050	12/13/2018	ND	1.79	89.5	2.00	1.12	
Ethylbenzene*	<0.050	0.050	12/13/2018	ND	1.72	86.2	2.00	1.48	
Total Xylenes*	<0.150	0.150	12/13/2018	ND	5.13	85.5	6.00	0.835	
Total BTEX	<0.300	0.300	12/13/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/13/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2018	ND	204	102	200	2.73	
DRO >C10-C28*	42.3	10.0	12/13/2018	ND	218	109	200	3.98	
EXT DRO >C28-C36	10.6	10.0	12/13/2018	ND					

Surrogate: 1-Chlorooctane 92.1 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 CAPROCK SERVICES
 STEVE TAYLOR
 P.O. BOX 457
 LOVINGTON NM, 88260
 Fax To:

 Received: 12/12/2018
 Reported: 12/18/2018
 Project Name: LEA UNIT SOUTH
 Project Number: NONE GIVEN
 Project Location: LEGACY - MONUMENT NM

 Sampling Date: 12/11/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S. WALL COMP (H803644-06)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2018	ND	2.05	102	2.00	0.493		
Toluene*	<0.050	0.050	12/14/2018	ND	1.99	99.3	2.00	0.174		
Ethylbenzene*	<0.050	0.050	12/14/2018	ND	1.97	98.6	2.00	0.216		
Total Xylenes*	<0.150	0.150	12/14/2018	ND	6.03	100	6.00	0.210		
Total BTEX	<0.300	0.300	12/14/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/13/2018	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/13/2018	ND	204	102	200	2.73		
DRO >C10-C28*	127	10.0	12/13/2018	ND	218	109	200	3.98		
EXT DRO >C28-C36	22.6	10.0	12/13/2018	ND						

Surrogate: 1-Chlorooctane 96.8 % 41-142

Surrogate: 1-Chlorooctadecane 114 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 CAPROCK SERVICES
 STEVE TAYLOR
 P.O. BOX 457
 LOVINGTON NM, 88260
 Fax To:

 Received: 12/12/2018
 Reported: 12/18/2018
 Project Name: LEA UNIT SOUTH
 Project Number: NONE GIVEN
 Project Location: LEGACY - MONUMENT NM

 Sampling Date: 12/11/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: E. WALL COMP (H803644-07)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2018	ND	2.05	102	2.00	0.493	
Toluene*	<0.050	0.050	12/14/2018	ND	1.99	99.3	2.00	0.174	
Ethylbenzene*	<0.050	0.050	12/14/2018	ND	1.97	98.6	2.00	0.216	
Total Xylenes*	<0.150	0.150	12/14/2018	ND	6.03	100	6.00	0.210	
Total BTEX	<0.300	0.300	12/14/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 73.3-129

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	12/13/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/13/2018	ND	204	102	200	2.73	
DRO >C10-C28*	119	10.0	12/13/2018	ND	218	109	200	3.98	
EXT DRO >C28-C36	24.6	10.0	12/13/2018	ND					

Surrogate: 1-Chlorooctane 97.4 % 41-142

Surrogate: 1-Chlorooctadecane 117 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 CAPROCK SERVICES
 STEVE TAYLOR
 P.O. BOX 457
 LOVINGTON NM, 88260
 Fax To:

 Received: 12/12/2018
 Reported: 12/18/2018
 Project Name: LEA UNIT SOUTH
 Project Number: NONE GIVEN
 Project Location: LEGACY - MONUMENT NM

 Sampling Date: 12/11/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W. WALL COMP (H803644-08)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/14/2018	ND	2.05	102	2.00	0.493		
Toluene*	<0.050	0.050	12/14/2018	ND	1.99	99.3	2.00	0.174		
Ethylbenzene*	<0.050	0.050	12/14/2018	ND	1.97	98.6	2.00	0.216		
Total Xylenes*	<0.150	0.150	12/14/2018	ND	6.03	100	6.00	0.210		
Total BTEX	<0.300	0.300	12/14/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	12/13/2018	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/13/2018	ND	204	102	200	2.73		
DRO >C10-C28*	193	10.0	12/13/2018	ND	218	109	200	3.98		
EXT DRO >C28-C36	45.1	10.0	12/13/2018	ND						

Surrogate: 1-Chlorooctane 96.7 % 41-142

Surrogate: 1-Chlorooctadecane 117 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 CAPROCK SERVICES
 STEVE TAYLOR
 P.O. BOX 457
 LOVINGTON NM, 88260
 Fax To:

 Received: 12/12/2018
 Reported: 12/18/2018
 Project Name: LEA UNIT SOUTH
 Project Number: NONE GIVEN
 Project Location: LEGACY - MONUMENT NM

 Sampling Date: 12/11/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: N. WALL COMP (H803644-09)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/14/2018	ND	2.05	102	2.00	0.493	
Toluene*	<0.050	0.050	12/14/2018	ND	1.99	99.3	2.00	0.174	
Ethylbenzene*	<0.050	0.050	12/14/2018	ND	1.97	98.6	2.00	0.216	
Total Xylenes*	<0.150	0.150	12/14/2018	ND	6.03	100	6.00	0.210	
Total BTEX	<0.300	0.300	12/14/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/13/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/13/2018	ND	204	102	200	2.73		
DRO >C10-C28*	1070	10.0	12/13/2018	ND	218	109	200	3.98		
EXT DRO >C28-C36	213	10.0	12/13/2018	ND						

Surrogate: 1-Chlorooctane 94.0 % 41-142

Surrogate: 1-Chlorooctadecane 149 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. 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.
- 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 SM450Cl-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



Celey D. Keene, Lab Director/Quality Manager



January 10, 2019

JOEL LOWRY

CAPROCK SERVICES

P.O. BOX 457

LOVINGTON, NM 88260

RE: LEA BATTERY SOUTH

Enclosed are the results of analyses for samples received by the laboratory on 01/09/19 11:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 CAPROCK SERVICES
 JOEL LOWRY
 P.O. BOX 457
 LOVINGTON NM, 88260
 Fax To:

Received:	01/09/2019	Sampling Date:	01/08/2019
Reported:	01/10/2019	Sampling Type:	Soil
Project Name:	LEA BATTERY SOUTH	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: NORTH WALL COMP. B (H900050-01)

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2019	ND	186	93.1	200	5.47	
DRO >C10-C28*	<10.0	10.0	01/09/2019	ND	203	102	200	3.92	
EXT DRO >C28-C36	<10.0	10.0	01/09/2019	ND					
<hr/>									
<i>Surrogate: 1-Chlorooctane</i>	<i>87.3 %</i>	<i>41-142</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>85.0 %</i>	<i>37.6-147</i>							

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

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



Celey D. Keene, Lab Director/Quality Manager



February 11, 2019

JOEL LOWRY

LOWRY ENVIROMENTAL & ASSOCIATES

PO BOX 296

LOVINGTON, NM 88260

RE: LEA SOUTH UNIT BATTER

Enclosed are the results of analyses for samples received by the laboratory on 02/05/19 11:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 LOWRY ENVIROMENTAL & ASSOCIATES
 JOEL LOWRY
 PO BOX 296
 LOVINGTON NM, 88260
 Fax To:

Received:	02/05/2019	Sampling Date:	02/04/2019
Reported:	02/11/2019	Sampling Type:	Soil
Project Name:	LEA SOUTH UNIT BATTER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY CO NM		

Sample ID: SE SW (H900419-01)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/09/2019	ND	1.88	93.9	2.00	0.925		
Toluene*	<0.050	0.050	02/09/2019	ND	1.77	88.3	2.00	0.381		
Ethylbenzene*	<0.050	0.050	02/09/2019	ND	1.71	85.4	2.00	2.49		
Total Xylenes*	<0.150	0.150	02/09/2019	ND	5.16	86.0	6.00	2.09		
Total BTEX	<0.300	0.300	02/09/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/11/2019	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/10/2019	ND	189	94.4	200	5.88		
DRO >C10-C28*	38.9	10.0	02/10/2019	ND	193	96.4	200	5.87		
EXT DRO >C28-C36	<10.0	10.0	02/10/2019	ND						

Surrogate: 1-Chlorooctane 76.5 % 41-142

Surrogate: 1-Chlorooctadecane 79.7 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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



ATTACHMENT #7
Photographic Log

PHOTOGRAPHIC LOG



Figure 1 View of portion of the excavated area, facing East.



Figure 2 View of portion of the excavated area, facing East.

PHOTOGRAPHIC LOG



Figure 3 View of portion of the excavated area, facing North.



Figure 4 View of soil excavated during initial remediation activities.

PHOTOGRAPHIC LOG



Figure 5 View of portion of the excavated area, facing Northeast.



Figure 6 View of portion of the excavated area, facing East.

PHOTOGRAPHIC LOG



Figure 7 View of surface staining from the initial release, facing North.



Figure 8 View of portion of the excavated area, facing South.

PHOTOGRAPHIC LOG



12/11/18, 1:53 PM
+32.556951,-103.511579

Figure 9 View of excavated pasture area, facing Northeast.



12/11/18, 1:53 PM
+32.556951,-103.511579

Figure 10 View of scrapped well pad, facing West.

PHOTOGRAPHIC LOG



Figure 11 View of the affected area after remediation activities, facing Southeast.

PHOTOGRAPHIC LOG



Figure 12 View of the affected area after remediation activities, facing Southeast.

ATTACHMENT #8
Release Notification (FORM C-141)

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

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

Form C-141
Revised April 3, 2017

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

Release Notification and Corrective Action

OPERATOR Initial Report Final Report

Name of Company Legacy Reserves	Contact Clyde Wilhoit
Address 303 W Wall street, Suite 1800, Midland Tx, 79701	Telephone No. 432.425.4137
Facility Name Lea Unit South Battery	Facility Type Flowline

Surface Owner S & S Inc.	Mineral Owner Federal	API No. 30-025-43077
--------------------------	------------------------------	-----------------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	24	20-S	34-E					Lea

Latitude **32.557222** Longitude **-103.508056** NAD83

NATURE OF RELEASE

Type of Release Crude oil	Volume of Release 72 BBL	Volume Recovered 60 BBL
Source of Release Flowline	Date and Hour of Occurrence 8/18/18 5:00 AM	Date and Hour of Discovery 8/18/18 5:00AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*
no

RECEIVED
By *CHernandez* at 3:03 pm, Aug 21, 2018

Describe Cause of Problem and Remedial Action Taken.*
Semi truck struck flow line. Well was shut in and line was repaired.

Describe Area Affected and Cleanup Action Taken.*
Flowline sprayed approximately 60'x150' area. Small pooling area under lines and road. Mico Blaze will be applied to vegetation and soil will be tested and remediated as soon as possible.

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

Signature: <i>Clyde Wilhoit</i>	OIL CONSERVATION DIVISION	
Printed Name: <i>Clyde Wilhoit</i>	Approved by Environmental Specialist: <i>CH</i>	
Title: <i>Maintenance Foreman</i>	Approval Date: 8/21/2018	Expiration Date:
E-mail Address: <i>cwilhoit@legacorp.com</i>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <i>8-20-18</i> Phone: <i>432-425-4137</i>	NMAC 19.15.29 effective August 14, 2018. Complete release characterization before any significant remediation.	

* Attach Additional Sheets If Necessary
1RP-5167
pCH1823355621

nCH1823355359

Incident ID	NCH1823355359
District RP	1RP-5167
Facility ID	fCH1901642211
Application ID	pCH1823355621

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>50-100'</u> (ft. bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Incident ID	NCH1823355359
District RP	IRP-5167
Facility ID	fCH1901642211
Application ID	pCH1823355621

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

Printed Name: Clyde Wilhoit Title: Maintenance Foreman
 Signature: *Clyde Wilhoit* Date: 12-7-2018
 email: cwilhoit@legacylp.com Telephone: 432-425-4137

OCD Only

REVIEWED
 By **CHernandez** at 2:24 pm, Jan 16, 2019

Received by: _____

Incident ID	NCH1823355359
District RP	1RP-5167
Facility ID	fCH1901642211
Application ID	pCH1823355621

Remediation Plan

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

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

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

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

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

Printed Name: Clyde Wilhoit Title: Maintenance Foreman
 Signature: *Clyde Wilhoit* Date: 12-7-2018
 email: cwilhoit@legacylp.com Telephone: 432-425-4137

OCD Only

Received by: _____ Date: _____
 Approved Approved with Attached Conditions of Approval Denied Deferral Approved

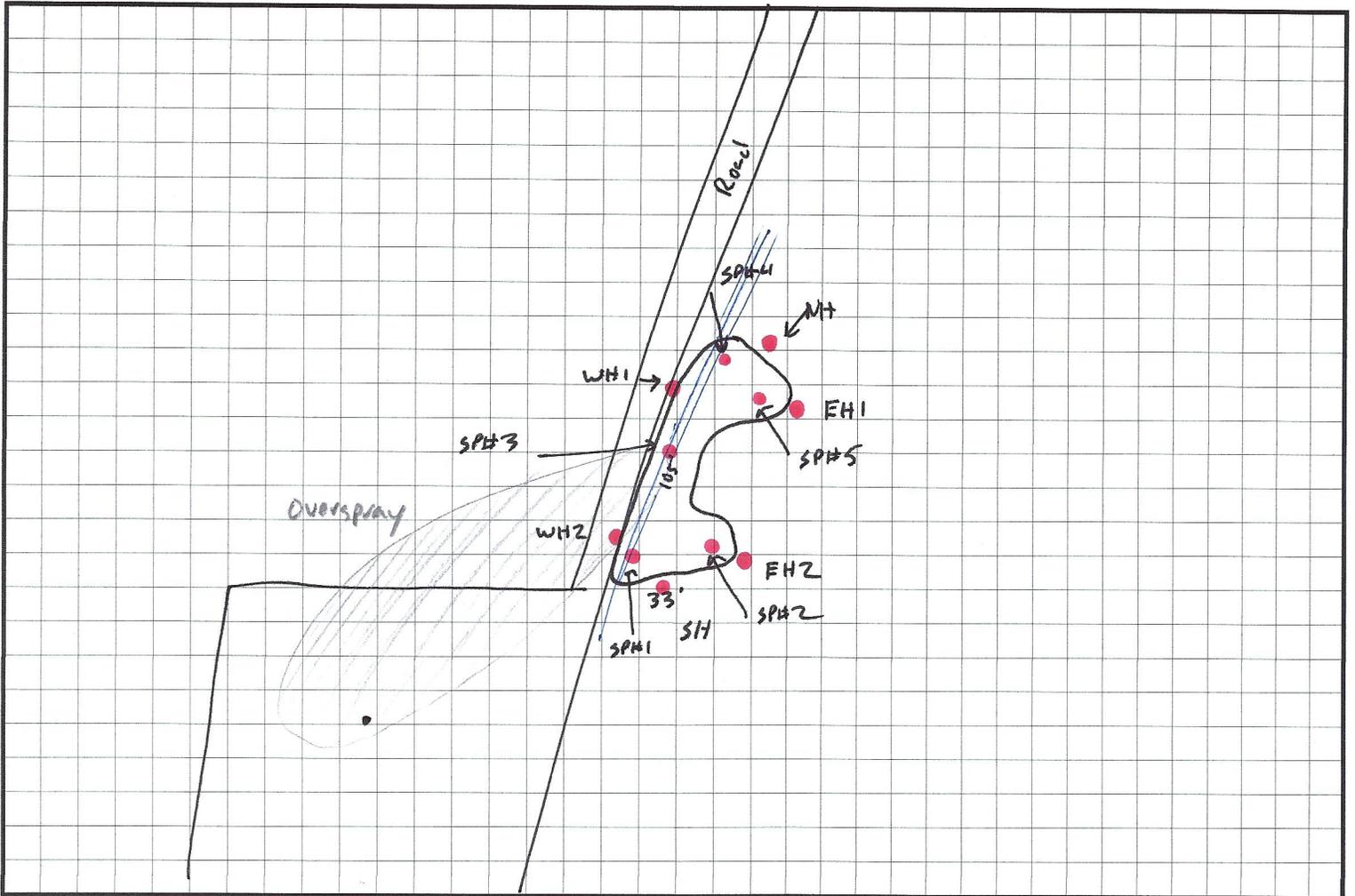
Signature: **APPROVED** Date: _____
By CHernandez at 2:24 pm, Jan 16, 2019

ATTACHMENT #9
Field Data

FIELD NOTES

Site Name: Lea South Battery

Date: 11/7/2018



Collect samples necessary for Workplan
 Check Microblate treatment of overspray, will require additional scraping

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride

Field ID	Odor/PID	Chloride