

District I

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

District II

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

District III

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

District IV

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

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

QUESTIONS

Action 38267

QUESTIONS

Operator: Lucid Artesia Company 201 S. Fourth Street Artesia, NM 88210	OGRID: 147831 Action Number: 38267 Action Type: [NOTIFY] Notification Of Release (NOR)
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QUESTIONS

Location of Release Source

Please answer all of the questions in this group.

Site Name	Smith 8" line
Date Release Discovered	07/12/2021
Surface Owner	Federal

Incident Details

Please answer all of the questions in this group.

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

Nature and Volume of Release

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

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of dissolved chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Cause: Corrosion Pipeline (Any) Natural Gas Vented Spilled: 767 Mcf Recovered: 0 Mcf Lost: 767 Mcf
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause: Corrosion Pipeline (Any) Natural Gas Liquids Spilled: 0 GAL Recovered: 0 GAL Lost: 0 GAL
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.
Was this a major release as defined by 19.15.29.7(A) NMAC	Yes, major release.
Reasons why this would be considered a submission for a notification of a major release	• Unauthorized release of gases exceeding 500 Mcf
If YES, was immediate notice given to the OCD, by whom	Michael Gant
If YES, was immediate notice given to the OCD, to whom	Bureau Chief, OCD district 2, BLM Carlsbad
If YES, was immediate notice given to the OCD, when	07/26/2021
If YES, was immediate notice given to the OCD, by what means (phone, email, etc)	email

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

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

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

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

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ACKNOWLEDGMENTS

Action 38267

ACKNOWLEDGMENTS

Operator: Lucid Artesia Company 201 S. Fourth Street Artesia, NM 88210	OGRID:
	147831
	Action Number: 38267
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	I acknowledge the fact that 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.
<input checked="" type="checkbox"/>	I acknowledge the fact that, 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.

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Energy, Minerals and Natural Resources
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CONDITIONS

Action 38267

CONDITIONS

Operator: Lucid Artesia Company 201 S. Fourth Street Artesia, NM 88210	OGRID: 147831
	Action Number: 38267
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
system	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	7/26/2021

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State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	nAPP2120765301
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	Frontier Field Services, LLC.	OGRID	221115
Contact Name	Darin B. Kennard	Contact Telephone	(346) 351-2790
Contact email	dkennard@durangomidstream.com	Incident # (assigned by OCD)	nAPP2120765301
Contact mailing address	10077 Grogans Mill Rd. Suite 300. The Woodlands, TX 77380, USA		

Location of Release Source

Latitude 32.421209° Longitude 104.548870°
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Smith 8" Line	Site Type	Natural gas pipeline
Date Release Discovered	7/12/2021	API# (if applicable)	

Unit Letter	Section	Township	Range	County
H	1	22S	23E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: Bureau of Land Management)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf) 767 MCF	Volume Recovered (Mcf) 0 MCF
<input checked="" type="checkbox"/> Other (describe)	Volume/Weight Released (provide units) approx. 5 gallons pipeline liquids	Volume/Weight Recovered (provide units) approx. 5 gallons

Cause of Release

The release was caused by corrosion in the pipe which led to a pinhole leak forming on the bottom of the pipe.

Form C-141

State of New Mexico
Oil Conservation Division


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Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? This is considered a major release due to the total lost volume of natural gas of >500 MCF.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Immediate notice was not provided to OCD, as Lucid did not have immediate and accurate volume calculations of the loss. Once volume loss had been confirmed Lucid EHSR immediately notified OCD and BLM personnel on 7/26/2021 via email and OCD online NOR form.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
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: <u>Darin B. Kennard</u> Signature: <u></u> email: <u>dkennard@durangomidstream.com</u>	Title: <u>Vice President</u> Date: <u>12/10/2021</u> Telephone: <u>(346) 351-2790</u>
<u>OCD Only</u> Received by: _____ Date: _____	

Form C-141

State of New Mexico
Oil Conservation Division

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Incident ID	nAPP2120765301
District RP	
Facility ID	
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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>< 51</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 checked="" type="checkbox"/> Yes <input 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
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-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.

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State of New Mexico
Oil Conservation Division

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Incident ID	nAPP2120765301
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Printed Name: Darin B. KennardTitle: Vice PresidentSignature: Date: 12/8/2021email: dkennard@durangomidstream.comTelephone: (346) 351-2790**OCD Only**

Received by: _____

Date: _____

Form C-141

State of New Mexico
Oil Conservation Division

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Incident ID	nAPP2120765301
District RP	
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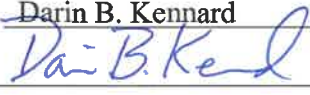
Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 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 ODC 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: Darin B. Kennard Title: Vice President
Signature:  Date: 12/10/2021
email: dkennard@durangomidstream.com Telephone: (346) 351-2790

OCD Only

Received by: Chad Hensley Date: 01/06/2022

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 environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 01/06/2022

Printed Name: Chad Hensley Title: Environmental Specialist Advanced



WSP USA

3300 North "A" Street
Building 1, Unit 222
Midland, Texas 79705
432.704.5178

December 8, 2021

District II
New Mexico Oil Conservation Division
811 South First Street
Artesia, New Mexico 88210

**RE: Closure Request
Smith 8" Line
Incident Number nAPP2120765301
Eddy County, New Mexico**

To Whom it May Concern:

WSP USA Inc. (WSP), on behalf of Frontier Field Services, LLC. (Frontier), is pleased to present the following Closure Request detailing remedial activities at the Smith 8" Line (Site) located in Unit H, Section 1, Township 22 South, Range 23 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, soil sampling, and excavation activities was to address impacts to soil following a release of natural gas and pipeline liquids at the Site. Based on the excavation activities and results of the confirmation soil sampling event, Frontier is submitting this Closure Request, describing remediation that has occurred and requesting no further action (NFA) for Incident Number nAPP2120765301.

RELEASE BACKGROUND

On July 12, 2021, corrosion of a pipeline which led to a pinhole leak, formed at the bottom of the pipe and resulted in the release of 767,000 cubic feet (MCF) of natural gas and 5 gallons (gal) (0.12 barrels) of pipeline liquid to the right-of-way (ROW). Pipeline liquids were not able to be recovered immediately. Lucid Energy Delaware (Lucid), who was the former operator of the asset and pipeline, reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Form C-141 on July 26, 2021 and was assigned Incident Number nAPP2120765301.

Excavation activities were completed by Lucid. The excavation area totaled approximately 1,066 square feet. A total of approximately 280 cubic yards of impacted soil was removed following excavation activities. The impacted soil was transported and properly disposed of at the Lea Land Landfill Facility under Lucid approved manifests. After completion of excavation activities, the excavation areas were secured with fencing.

The asset was acquired by Frontier during November 2021. As Frontier acquired the asset, they took the liability of Incident Number nAPP2120765301. As such, Frontier secured the services of



WSP to complete confirmation sampling and reporting efforts for the release. A description of confirmation sampling activities provided in subsequent sections.

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be less than 50 feet below ground surface (bgs) based a United States Geological Survey (USGS) well number 322448104322101, which is located 0.76 miles southeast of the site (13.98 feet bgs). The referenced well record is included as Attachment 1.

The closest continuously flowing or significant watercourse to the Site is a stream/river, located approximately 1,928 feet south of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is potentially underlain by unstable geology (high potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

A reclamation closure criteria of 100 mg/kg TPH and 600 mg/kg chloride was applied to the top 4 feet of the pasture area impacted by the release, per NMAC 19.15.29.13.D (1) for areas that will be reclaimed immediately following remediation.

CONFIRMATION SOIL SAMPLING ACTIVITIES

Excavation and field screening activities were conducted by Lucid and completed before September 24, 2021. On October 11, 2021, WSP visited to the Site to conduct site assessment activities and verify the absence or presence of any residual impacted and/or waste-containing soil within the excavation area as indicated by field screening. Excavation confirmation soil



samples were field screened for volatile aromatic hydrocarbons using a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips.

WSP collected 5-point composite soil samples to represent at most 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Soil samples SW01 through SW05 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 4 feet bgs. Soil samples FS01 through FS07 were collected from the floor of the excavation at 4 feet bgs. The excavation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler initials, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C), under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH following EPA Method 8015M/D; and chloride following EPA Method 300.0. The excavation extent and excavation soil sample locations are presented on Figure 2. Photographic documentation is included in Attachment 2.

SOIL ANALYTICAL RESULTS

Laboratory analytical results for all confirmation samples indicated concentrations of benzene, BTEX, TPH, and chloride are compliant with the reclamation requirement and Closure Criteria. A minimum removal of 4 feet of soil was required in the pasture area affected by the subject release. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Attachment 3.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site by Lucid to address the July 12, 2021 release of natural gas and pipeline fluid. Laboratory analytical results for excavation confirmation soil samples, indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the reclamation and Closure Criteria. Based on the soil sample analytical results, Lucid removed impacted soils sufficiently and as such, no further remediation appears required. Following receipt of compliant excavation soil sample laboratory results, Frontier backfilled the excavation with material purchased locally and recontour the Site to match pre-existing site conditions. The subject area will also be reseeded with a Bureau of Land Management (BLM)-approved seed mix. WSP and Frontier believe these remedial actions are protective of human health, the environment, and groundwater. As such, Frontier respectfully requests NFA for Incident Number nAPP2120765301.

Note: Due to recent operator change affecting responsible party for the subject release, Frontier requests the OGRID number for this incident to be updated to [221115]. The updated C-141 reflects new ownership information.



District II
Page 4

If you have any questions or comments, please do not hesitate to contact Mr. Daniel Moir at (303) 887-2946.

Sincerely,

WSP USA Inc.

A handwritten signature in black ink, appearing to read 'Joseph S. Hernandez'.

Joseph S. Hernandez
Associate Consultant, Geologist

A handwritten signature in black ink, appearing to read 'Daniel R. Moir'.

Daniel R. Moir, P.G.
Lead Consultant, Geologist

cc: Darin Kennard, Frontier Field Services, LLC.
Bureau of Land Management
NMOCD

Attachments:

Figure 1 Site Location Map
Figure 2 Excavation Soil Sample Locations
Table 1 Soil Analytical Results
Attachment 1 Referenced Well Record
Attachment 2 Photographic Log
Attachment 3 Laboratory Analytical Reports

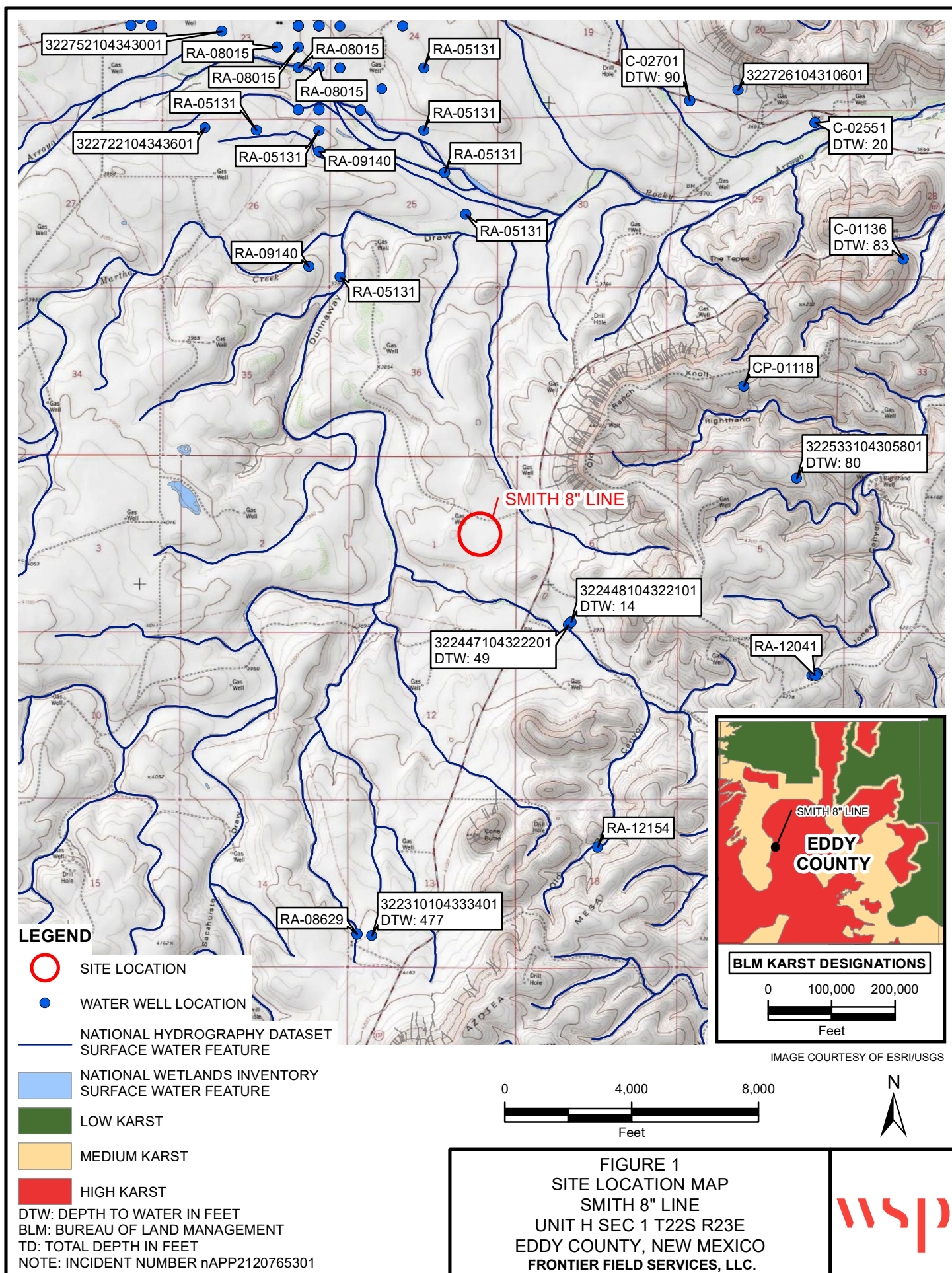
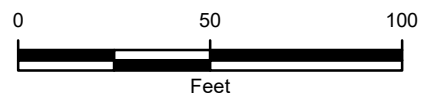




IMAGE COURTESY OF ESRI

LEGEND

- FLOOR SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- SIDEWALL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- EXCAVATION EXTENT



NOTE: INCIDENT NUMBER nAPP2120765301
 SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

FIGURE 2
EXCAVATION SOIL SAMPLE LOCATIONS
 SMITH 8" LINE
 UNIT H SEC 1 T22S R23E
 EDDY COUNTY, NEW MEXICO
 FRONTIER FIELD SERVICES, LLC.

TABLES

Table 1

Soil Analytical Results
Smith 8" Line
Incident Number nAPP2120765301
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Excavation Soil Samples										
FS01	10/11/2021	4	<0.025	<0.10	<5.0	<9.8	<49	<9.8	<49	<61
FS02	10/11/2021	4	<0.023	<0.10	<4.6	<9.4	<47	<9.4	<47	<60
FS03	10/11/2021	4	<0.023	<0.09	<4.6	<9.3	<47	<9.3	<47	<59
FS04	10/11/2021	4	<0.023	<0.09	<4.7	<9.9	<49	<9.9	<49	<60
FS05	10/11/2021	4	<0.023	<0.09	<4.6	<10	<50	<10	<50	<60
FS06	10/11/2021	4	<0.024	<0.10	<4.8	10	<50	10	10	<60
FS07	10/11/2021	4	<0.12	<0.49	<25	47	<48	47	47	<60
SW01	10/11/2021	0 - 4	<0.024	<0.10	<4.9	<9.5	<47	<9.5	<47	<61
SW02	10/11/2021	0 - 4	<0.023	<0.09	<4.6	<9.6	<48	<9.6	<48	<60

Table 1

Soil Analytical Results
Smith 8" Line
Incident Number nAPP2120765301
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
SW03	10/11/2021	0 - 4	<0.024	<0.10	<4.8	<9.9	<49	<9.9	<49	<60
SW04	10/11/2021	0 - 4	<0.023	<0.09	<4.6	<9.2	<46	<9.2	<46	<60
SW05	10/11/2021	0 - 4	<0.024	<0.10	<4.9	<9.7	<48	<9.7	<48	<60

Notes

ft - feet/foot

NMOCD - New Mexico Oil Conservation Division

mg/kg - milligrams per kilograms

NMAC - New Mexico Administrative Code

BTEX - benzene, toluene, ethylbenzene, and total xylenes

< - indicates result is less than the stated laboratory method practical quantitation limit

TPH - total petroleum hydrocarbons

NE - Not Established

DRO - diesel range organics

BOLD - indicates results exceed the higher of the background sample result or applicable regulatory standard

GRO - gasoline range organics

ORO - motor oil range organics

ATTACHMENT 1: REFERENCED WELL RECORD



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources (Cooperator Access)

Data Category:
Groundwater

Geographic Area:
United States

GO

Click to hideNews Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#)

Groundwater levels for the Nation

Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 322448104322101

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 322448104322101 22S.24E.07.112223

Eddy County, New Mexico
Latitude 32°24'48", Longitude 104°32'21" NAD27
Land-surface elevation 3,966 feet above NAVD88
The depth of the well is 35 feet below land surface.
This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1978-01-13			D 62610		3950.59	NGVD29	1	Z			A
1978-01-13			D 62611		3952.36	NAVD88	1	Z			A
1978-01-13			D 72019	13.64			1	Z			A
1983-01-25			D 62610		3950.81	NGVD29	1	Z			A
1983-01-25			D 62611		3952.58	NAVD88	1	Z			A
1983-01-25			D 72019	13.42			1	Z			A
1987-10-07			D 62610		3950.68	NGVD29	1	Z			A
1987-10-07			D 62611		3952.45	NAVD88	1	Z			A
1987-10-07			D 72019	13.55			1	Z			A
1992-11-04			D 62610		3950.93	NGVD29	1	S			A
1992-11-04			D 62611		3952.70	NAVD88	1	S			A
1992-11-04			D 72019	13.30			1	S			A
1998-01-30			D 62610		3950.25	NGVD29	1	S			A
1998-01-30			D 62611		3952.02	NAVD88	1	S			A
1998-01-30			D 72019	13.98			1	S			A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static

Section	Code	Description
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for USA: Water Levels

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

Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2021-12-07 12:08:29 EST

0.31 0.28 nadww01



ATTACHMENT 2: PHOTOGRAPHIC LOG



PHOTOGRAPHIC LOG

Frontier Field Services, LLC.	Smith 8" Line Eddy County, NM	NAPP2120765301
----------------------------------	----------------------------------	----------------

Photo No.	Date	
1	October 11, 2021	
View of the excavation during the recent site assessment and confirmation sampling activities.		

Photo No.	Date	
2	December 7, 2021	
View of the excavation following restoration activities.		



PHOTOGRAPHIC LOG

Frontier Field Services, LLC.	Smith 8" Line Eddy County, NM	NAPP2120765301
----------------------------------	----------------------------------	----------------


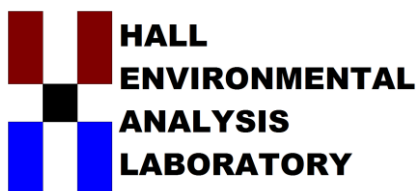
Photo No.	Date	
3	December 7, 2021	
View of the excavation following restoration activities.		 A wide-angle photograph of an excavation site. The foreground is a flat, sandy area with some sparse, dry vegetation. In the background, there are low, rolling hills under a blue sky with scattered white clouds. A small white marker is visible in the distance.

Photo No.	Date	
4	December 7, 2021	
View of the excavation following restoration activities.		 A photograph showing a close-up view of the excavation site. The ground is sandy and uneven, with visible tire tracks and some sparse vegetation. The background shows a line of trees and a clear sky.

ATTACHMENT 3: LABORATORY ANALYTICAL REPORTS



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

October 26, 2021

Joseph S. Hernandez
Lucid Energy Delaware
201 South 4th St.
Artesia, NM 88210
TEL:
FAX

RE: Smith 8 inch

OrderNo.: 2110628

Dear Joseph S. Hernandez:

Hall Environmental Analysis Laboratory received 12 sample(s) on 10/13/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2110628

Date Reported: 10/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware

Client Sample ID: FS01 4'

Project: Smith 8 inch

Collection Date: 10/11/2021 10:30:00 AM

Lab ID: 2110628-001

Matrix: SOIL

Received Date: 10/13/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/15/2021 7:51:45 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/15/2021 7:51:45 PM
Surr: DNOP	118	70-130		%Rec	1	10/15/2021 7:51:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/18/2021 10:11:47 PM
Surr: BFB	108	70-130		%Rec	1	10/18/2021 10:11:47 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	10/18/2021 10:11:47 PM
Toluene	ND	0.050		mg/Kg	1	10/18/2021 10:11:47 PM
Ethylbenzene	ND	0.050		mg/Kg	1	10/18/2021 10:11:47 PM
Xylenes, Total	ND	0.10		mg/Kg	1	10/18/2021 10:11:47 PM
Surr: 4-Bromofluorobenzene	89.5	70-130		%Rec	1	10/18/2021 10:11:47 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	61		mg/Kg	20	10/19/2021 9:21:42 PM

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

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

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Analytical Report

Lab Order 2110628

Date Reported: 10/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware

Client Sample ID: FS02 4'

Project: Smith 8 inch

Collection Date: 10/11/2021 10:35:00 AM

Lab ID: 2110628-002

Matrix: SOIL

Received Date: 10/13/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/15/2021 8:02:26 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/15/2021 8:02:26 PM
Surr: DNOP	115	70-130		%Rec	1	10/15/2021 8:02:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/18/2021 11:22:32 PM
Surr: BFB	113	70-130		%Rec	1	10/18/2021 11:22:32 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	10/18/2021 11:22:32 PM
Toluene	ND	0.046		mg/Kg	1	10/18/2021 11:22:32 PM
Ethylbenzene	ND	0.046		mg/Kg	1	10/18/2021 11:22:32 PM
Xylenes, Total	ND	0.091		mg/Kg	1	10/18/2021 11:22:32 PM
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	10/18/2021 11:22:32 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	10/19/2021 9:58:56 PM

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

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

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Analytical Report

Lab Order 2110628

Date Reported: 10/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware

Client Sample ID: FS03 4'

Project: Smith 8 inch

Collection Date: 10/11/2021 10:40:00 AM

Lab ID: 2110628-003

Matrix: SOIL

Received Date: 10/13/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	10/15/2021 8:13:06 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/15/2021 8:13:06 PM
Surr: DNOP	90.9	70-130		%Rec	1	10/15/2021 8:13:06 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/19/2021 12:33:17 AM
Surr: BFB	111	70-130		%Rec	1	10/19/2021 12:33:17 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	10/19/2021 12:33:17 AM
Toluene	ND	0.046		mg/Kg	1	10/19/2021 12:33:17 AM
Ethylbenzene	ND	0.046		mg/Kg	1	10/19/2021 12:33:17 AM
Xylenes, Total	ND	0.093		mg/Kg	1	10/19/2021 12:33:17 AM
Surr: 4-Bromofluorobenzene	93.2	70-130		%Rec	1	10/19/2021 12:33:17 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	59		mg/Kg	20	10/19/2021 10:36:10 PM

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

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

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Analytical Report

Lab Order 2110628

Date Reported: 10/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware

Client Sample ID: FS04 4'

Project: Smith 8 inch

Collection Date: 10/11/2021 10:50:00 AM

Lab ID: 2110628-004

Matrix: SOIL

Received Date: 10/13/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/15/2021 8:23:44 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/15/2021 8:23:44 PM
Surr: DNOP	94.0	70-130		%Rec	1	10/15/2021 8:23:44 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/19/2021 12:56:48 AM
Surr: BFB	107	70-130		%Rec	1	10/19/2021 12:56:48 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	10/19/2021 12:56:48 AM
Toluene	ND	0.047		mg/Kg	1	10/19/2021 12:56:48 AM
Ethylbenzene	ND	0.047		mg/Kg	1	10/19/2021 12:56:48 AM
Xylenes, Total	ND	0.094		mg/Kg	1	10/19/2021 12:56:48 AM
Surr: 4-Bromofluorobenzene	89.0	70-130		%Rec	1	10/19/2021 12:56:48 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	10/19/2021 10:48:35 PM

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

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

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Analytical Report

Lab Order 2110628

Date Reported: 10/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware

Client Sample ID: FS05 4'

Project: Smith 8 inch

Collection Date: 10/11/2021 10:55:00 AM

Lab ID: 2110628-005

Matrix: SOIL

Received Date: 10/13/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/15/2021 8:34:23 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/15/2021 8:34:23 PM
Surr: DNOP	123	70-130		%Rec	1	10/15/2021 8:34:23 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/19/2021 1:20:20 AM
Surr: BFB	107	70-130		%Rec	1	10/19/2021 1:20:20 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	10/19/2021 1:20:20 AM
Toluene	ND	0.046		mg/Kg	1	10/19/2021 1:20:20 AM
Ethylbenzene	ND	0.046		mg/Kg	1	10/19/2021 1:20:20 AM
Xylenes, Total	ND	0.093		mg/Kg	1	10/19/2021 1:20:20 AM
Surr: 4-Bromofluorobenzene	88.1	70-130		%Rec	1	10/19/2021 1:20:20 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	10/19/2021 11:01:00 PM

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

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

Analytical Report

Lab Order 2110628

Date Reported: 10/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware

Client Sample ID: FS06 4'

Project: Smith 8 inch

Collection Date: 10/11/2021 11:00:00 AM

Lab ID: 2110628-006

Matrix: SOIL

Received Date: 10/13/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	18	9.6		mg/Kg	1	10/22/2021 12:53:03 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/22/2021 12:53:03 PM
Surr: DNOP	80.6	70-130		%Rec	1	10/22/2021 12:53:03 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/19/2021 1:43:47 AM
Surr: BFB	107	70-130		%Rec	1	10/19/2021 1:43:47 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/19/2021 1:43:47 AM
Toluene	ND	0.048		mg/Kg	1	10/19/2021 1:43:47 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/19/2021 1:43:47 AM
Xylenes, Total	ND	0.096		mg/Kg	1	10/19/2021 1:43:47 AM
Surr: 4-Bromofluorobenzene	87.6	70-130		%Rec	1	10/19/2021 1:43:47 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	10/19/2021 11:38:13 PM

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

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

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Analytical Report

Lab Order 2110628

Date Reported: 10/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware

Client Sample ID: FS07 4'

Project: Smith 8 inch

Collection Date: 10/11/2021 11:10:00 AM

Lab ID: 2110628-007

Matrix: SOIL

Received Date: 10/13/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	47	9.5		mg/Kg	1	10/15/2021 8:55:41 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/15/2021 8:55:41 PM
Surr: DNOP	129	70-130		%Rec	1	10/15/2021 8:55:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	10/19/2021 2:07:11 AM
Surr: BFB	109	70-130		%Rec	5	10/19/2021 2:07:11 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	10/19/2021 2:07:11 AM
Toluene	ND	0.25		mg/Kg	5	10/19/2021 2:07:11 AM
Ethylbenzene	ND	0.25		mg/Kg	5	10/19/2021 2:07:11 AM
Xylenes, Total	ND	0.49		mg/Kg	5	10/19/2021 2:07:11 AM
Surr: 4-Bromofluorobenzene	89.6	70-130		%Rec	5	10/19/2021 2:07:11 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	10/20/2021 12:40:17 AM

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

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

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Analytical Report

Lab Order 2110628

Date Reported: 10/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware

Client Sample ID: SW01 0-4'

Project: Smith 8 inch

Collection Date: 10/11/2021 1:05:00 PM

Lab ID: 2110628-008

Matrix: SOIL

Received Date: 10/13/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/15/2021 9:16:57 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/15/2021 9:16:57 PM
Surr: DNOP	157	70-130	S	%Rec	1	10/15/2021 9:16:57 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/19/2021 3:17:42 AM
Surr: BFB	110	70-130		%Rec	1	10/19/2021 3:17:42 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/19/2021 3:17:42 AM
Toluene	ND	0.049		mg/Kg	1	10/19/2021 3:17:42 AM
Ethylbenzene	ND	0.049		mg/Kg	1	10/19/2021 3:17:42 AM
Xylenes, Total	ND	0.098		mg/Kg	1	10/19/2021 3:17:42 AM
Surr: 4-Bromofluorobenzene	91.8	70-130		%Rec	1	10/19/2021 3:17:42 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	61		mg/Kg	20	10/20/2021 1:17:31 AM

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

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

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Analytical Report

Lab Order 2110628

Date Reported: 10/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware

Client Sample ID: SW02 0-4'

Project: Smith 8 inch

Collection Date: 10/11/2021 1:10:00 PM

Lab ID: 2110628-009

Matrix: SOIL

Received Date: 10/13/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/15/2021 9:27:35 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/15/2021 9:27:35 PM
Surr: DNOP	105	70-130		%Rec	1	10/15/2021 9:27:35 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/19/2021 3:41:14 AM
Surr: BFB	111	70-130		%Rec	1	10/19/2021 3:41:14 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	10/19/2021 3:41:14 AM
Toluene	ND	0.046		mg/Kg	1	10/19/2021 3:41:14 AM
Ethylbenzene	ND	0.046		mg/Kg	1	10/19/2021 3:41:14 AM
Xylenes, Total	ND	0.092		mg/Kg	1	10/19/2021 3:41:14 AM
Surr: 4-Bromofluorobenzene	92.5	70-130		%Rec	1	10/19/2021 3:41:14 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	10/20/2021 1:29:56 AM

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

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

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Analytical Report

Lab Order 2110628

Date Reported: 10/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware

Client Sample ID: SW03 0-4'

Project: Smith 8 inch

Collection Date: 10/11/2021 1:15:00 PM

Lab ID: 2110628-010

Matrix: SOIL

Received Date: 10/13/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/15/2021 9:38:16 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/15/2021 9:38:16 PM
Surr: DNOP	165	70-130	S	%Rec	1	10/15/2021 9:38:16 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/19/2021 4:04:51 AM
Surr: BFB	113	70-130		%Rec	1	10/19/2021 4:04:51 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/19/2021 4:04:51 AM
Toluene	ND	0.048		mg/Kg	1	10/19/2021 4:04:51 AM
Ethylbenzene	ND	0.048		mg/Kg	1	10/19/2021 4:04:51 AM
Xylenes, Total	ND	0.096		mg/Kg	1	10/19/2021 4:04:51 AM
Surr: 4-Bromofluorobenzene	95.1	70-130		%Rec	1	10/19/2021 4:04:51 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	10/20/2021 1:42:21 AM

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

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

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Analytical Report

Lab Order 2110628

Date Reported: 10/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware

Client Sample ID: SW04 0-4'

Project: Smith 8 inch

Collection Date: 10/11/2021 1:20:00 PM

Lab ID: 2110628-011

Matrix: SOIL

Received Date: 10/13/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	10/18/2021 4:56:06 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/18/2021 4:56:06 PM
Surr: DNOP	121	70-130		%Rec	1	10/18/2021 4:56:06 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/19/2021 4:28:24 AM
Surr: BFB	112	70-130		%Rec	1	10/19/2021 4:28:24 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	10/19/2021 4:28:24 AM
Toluene	ND	0.046		mg/Kg	1	10/19/2021 4:28:24 AM
Ethylbenzene	ND	0.046		mg/Kg	1	10/19/2021 4:28:24 AM
Xylenes, Total	ND	0.093		mg/Kg	1	10/19/2021 4:28:24 AM
Surr: 4-Bromofluorobenzene	92.8	70-130		%Rec	1	10/19/2021 4:28:24 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	10/20/2021 1:54:45 AM

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

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

Analytical Report

Lab Order 2110628

Date Reported: 10/26/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware

Client Sample ID: SW05 0-4'

Project: Smith 8 inch

Collection Date: 10/11/2021 1:30:00 PM

Lab ID: 2110628-012

Matrix: SOIL

Received Date: 10/13/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/15/2021 9:59:38 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/15/2021 9:59:38 PM
Surr: DNOP	121	70-130		%Rec	1	10/15/2021 9:59:38 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/19/2021 4:51:57 AM
Surr: BFB	108	70-130		%Rec	1	10/19/2021 4:51:57 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/19/2021 4:51:57 AM
Toluene	ND	0.049		mg/Kg	1	10/19/2021 4:51:57 AM
Ethylbenzene	ND	0.049		mg/Kg	1	10/19/2021 4:51:57 AM
Xylenes, Total	ND	0.097		mg/Kg	1	10/19/2021 4:51:57 AM
Surr: 4-Bromofluorobenzene	89.7	70-130		%Rec	1	10/19/2021 4:51:57 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	10/20/2021 2:07:10 AM

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

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

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2110628

26-Oct-21

Client: Lucid Energy Delaware**Project:** Smith 8 inch

Sample ID: MB-63395	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 63395	RunNo: 82176								
Prep Date: 10/19/2021	Analysis Date: 10/19/2021	SeqNo: 2911610	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-63395	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 63395	RunNo: 82176								
Prep Date: 10/19/2021	Analysis Date: 10/19/2021	SeqNo: 2911611	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.3	90	110			

Sample ID: MB-63407	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 63407	RunNo: 82176								
Prep Date: 10/19/2021	Analysis Date: 10/19/2021	SeqNo: 2911642	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-63407	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 63407	RunNo: 82176								
Prep Date: 10/19/2021	Analysis Date: 10/19/2021	SeqNo: 2911643	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.5	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2110628

26-Oct-21

Client: Lucid Energy Delaware**Project:** Smith 8 inch

Sample ID: LCS-63319	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 63319	RunNo: 82083								
Prep Date: 10/14/2021	Analysis Date: 10/15/2021	SeqNo: 2909090			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.8	68.9	135			
Surr: DNOP	5.8		5.000		115	70	130			

Sample ID: MB-63319	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 63319	RunNo: 82083								
Prep Date: 10/14/2021	Analysis Date: 10/15/2021	SeqNo: 2909091			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		119	70	130			

Sample ID: MB-63472	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 63472	RunNo: 82268								
Prep Date: 10/21/2021	Analysis Date: 10/22/2021	SeqNo: 2916562			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		93.5	70	130			

Sample ID: LCS-63472	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 63472	RunNo: 82268								
Prep Date: 10/21/2021	Analysis Date: 10/22/2021	SeqNo: 2916563			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.8	68.9	135			
Surr: DNOP	4.6		5.000		92.4	70	130			

Sample ID: LCS-63462	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 63462	RunNo: 82270								
Prep Date: 10/21/2021	Analysis Date: 10/22/2021	SeqNo: 2916719			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	6.4		5.000		127	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2110628

26-Oct-21

Client: Lucid Energy Delaware**Project:** Smith 8 inch

Sample ID: MB-63462	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 63462	RunNo: 82270								
Prep Date: 10/21/2021	Analysis Date: 10/22/2021	SeqNo: 2916721	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12		10.00		123	70	130			

Sample ID: MB-63472	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 63472	RunNo: 82270								
Prep Date: 10/21/2021	Analysis Date: 10/22/2021	SeqNo: 2916723	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		91.9	70	130			

Sample ID: MB-63472	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 63472	RunNo: 82269								
Prep Date: 10/21/2021	Analysis Date: 10/22/2021	SeqNo: 2918150	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		93.1	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2110628

26-Oct-21

Client: Lucid Energy Delaware**Project:** Smith 8 inch

Sample ID: mb-63285	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 63285	RunNo: 82119								
Prep Date: 10/13/2021	Analysis Date: 10/19/2021	SeqNo: 2909641			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		107	70	130			

Sample ID: lcs-63285	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 63285	RunNo: 82119								
Prep Date: 10/13/2021	Analysis Date: 10/18/2021	SeqNo: 2909642			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	115	78.6	131			
Surr: BFB	1200		1000		125	70	130			

Sample ID: 2110628-001ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: FS01 4'	Batch ID: 63285	RunNo: 82119								
Prep Date: 10/13/2021	Analysis Date: 10/18/2021	SeqNo: 2909647			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.44	0	96.3	61.3	114			
Surr: BFB	1100		977.5		114	70	130			

Sample ID: 2110628-001amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: FS01 4'	Batch ID: 63285	RunNo: 82119								
Prep Date: 10/13/2021	Analysis Date: 10/18/2021	SeqNo: 2909648			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.8	24.06	0	96.6	61.3	114	1.30	20	
Surr: BFB	1100		962.5		115	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2110628

26-Oct-21

Client: Lucid Energy Delaware**Project:** Smith 8 inch

Sample ID: mb-63285	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 63285	RunNo: 82119								
Prep Date: 10/13/2021	Analysis Date: 10/19/2021	SeqNo: 2909690 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		89.8	70	130			

Sample ID: LCS-63285	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 63285	RunNo: 82119								
Prep Date: 10/13/2021	Analysis Date: 10/18/2021	SeqNo: 2909691 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.9	80	120			
Toluene	0.98	0.050	1.000	0	98.2	80	120			
Ethylbenzene	0.98	0.050	1.000	0	97.7	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.3	80	120			
Surr: 4-Bromofluorobenzene	0.90		1.000		90.2	70	130			

Sample ID: 2110628-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: FS02 4'	Batch ID: 63285	RunNo: 82119								
Prep Date: 10/13/2021	Analysis Date: 10/18/2021	SeqNo: 2909697 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.78	0.024	0.9709	0	80.8	80	120			
Toluene	0.81	0.049	0.9709	0	83.8	80	120			
Ethylbenzene	0.81	0.049	0.9709	0	83.0	80	120			
Xylenes, Total	2.4	0.097	2.913	0	80.9	80	120			
Surr: 4-Bromofluorobenzene	0.88		0.9709		90.2	70	130			

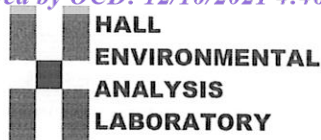
Sample ID: 2110628-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: FS02 4'	Batch ID: 63285	RunNo: 82119								
Prep Date: 10/13/2021	Analysis Date: 10/19/2021	SeqNo: 2909698 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.79	0.024	0.9728	0	81.7	80	120	1.27	20	
Toluene	0.82	0.049	0.9728	0	84.8	80	120	1.32	20	
Ethylbenzene	0.82	0.049	0.9728	0	84.2	80	120	1.69	20	
Xylenes, Total	2.4	0.097	2.918	0	81.9	80	120	1.54	20	
Surr: 4-Bromofluorobenzene	0.91		0.9728		93.4	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Lucid Energy Delaware

Work Order Number: 2110628

RcptNo: 1

Received By: Cheyenne Cason 10/13/2021 7:20:00 AM

Completed By: Sean Livingston 10/13/2021 11:03:48 AM

Reviewed By: KPG 10/13/21

Cason

Sean Livingston

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: TMC 10/13/21

10/13/21

TMC 10/13/21

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.8	Good				

Chain-of-Custody Record

Client: Lucid Energy Group
Michael Gant
Mailing Address: 201 S 4th Artesia, NM 88210

Phone #: 575-810-6144

email or Fax#: mgant@lucid-energy.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

Smith 8"

Project #:

Na - pending

Project Manager:

Joseph S. Hernandez

Sampler: Alexis Castro

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CF): 2, 9 - 0.1 = 2.8

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
10/11/21	1030	S	F501 4'	1		2110628
	1035		F502 4'			001
	1040		F503 4'			002
	1050		F504 4'			003
	1055		F505 4'			004
	1100		F506 4'			005
	1110		F507 4'			006
	1305		S501 0-4'			007
	1310		S502 0-4'			008
	1315		S503 0-4'			009
	1320		S504 0-4'			010
	1330		S505 0-4'			011
						012

Date: 10/12/21 Time: 700

Relinquished by: [Signature]

Received by: [Signature]

Date: 10/12/21 Time: 700

Via:

Date: 10/13/21 Time: 0720

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Via:

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 66164

CONDITIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 66164
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	1/6/2022