



WSP USA

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

April 20, 2022

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

**RE: Closure Request  
Wolf Lateral PRV  
Incident Number NAPP2120957757  
Eddy County, New Mexico**

To Whom it May Concern:

WSP USA Inc. (WSP), on behalf of Lucid Energy Delaware, LLC (Lucid), presents the following Closure Request detailing site assessment, excavation, and soil sampling activities at the Wolf Lateral PRV (Site) located in Unit I, Section 1, Township 22 South, Range 31 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil following the release of natural gas and pipeline liquid from a pressure release valve (PRV) at the Site. Based on the excavation activities and confirmation soil sample laboratory analytical results, Lucid is submitting this Closure Request, and respectfully requesting no further action (NFA) status for Incident Number NAPP2120957757.

## **RELEASE BACKGROUND**

On July 26, 2021, high line pressure from an upstream operators caused the pressure to build at the PRV. This excess pressure resulted in the PRV functioning as designed, opening to relieve the excess pressure in the associated poly-line. The pressure release resulted in the release of an estimated 2,130 thousand cubic feet (MCF) of natural gas and an unknown volume of natural gas pipeline liquid onto the pipeline right-of-way (ROW). Escaped natural gas and pipeline liquids were not recoverable. Immediate notice was not provided to New Mexico Oil Conservation Division (NMOCD) so that an accurate volume calculation of the loss could be provided. Lucid reported the release to the NMOCD on a Release Notification Form C-141 (Form C-141) on August 6, 2021. The release was assigned Incident Number NAPP2120957757.

## **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 on the nearest groundwater well data. The closest permitted groundwater



well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-04144 POD 1, located approximately 1.27 miles southeast of the Site. The total depth of the well is 58 feet bgs and the depth to groundwater was recorded at 49 feet bgs. The water well record is provided as Attachment 1. While depth to groundwater appears to be less than 50 feet bgs for the Site, the well location does not meet the NMOCD interpreted guidance of estimation of depth to water based on its distance being greater than 0.5-mile from the Site.

The closest continuously flowing or significant watercourse to the Site is an intermittent stream bed, located approximately 1,753 feet north 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 not underlain by unstable geology (low 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

## **SITE ASSESSMENT ACTIVITIES**

On September 22, 2021, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Preliminary assessment photographs were taken of the release extent to show the lateral extent of impacted soil. The lateral extent of the impacted soil was marked for a one call for further activities (delineation).

## **DELINEATION ACTIVITIES AND ANALYTICAL RESULTS**

On September 29, 2021, WSP personnel returned to the Site to conduct lateral and vertical delineation activities as indicated by site assessment activities. Boreholes BH01 through BH06 were advanced via hand auger within the release extent to a depth of 4 feet bgs to assess the vertical extent of impacted soil. Discrete delineation samples were collected from each borehole at depths of 1-foot and 4 feet bgs. Soil from the boreholes was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations were logged



on lithologic/soil sampling logs, which are included in Attachment 2. The delineation 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 delineation sample locations were mapped utilizing a handheld GPS unit and are presented on Figure 2.

Laboratory analytical results for borehole delineation samples indicated BH01A at 4 feet bgs and BH02 and BH02A at 1 foot and 4 feet bgs, respectively, exceeded the TPH Closure Criteria. Concentration of benzene, BTEX, and chloride in all boreholes were compliant with the Site Closure Criteria.

### **EXCAVATION ACTIVITIES**

On February 21, 2022, WSP personnel returned to the Site to oversee excavation and completion of activities, areas that exceeded Closure Criteria were excavated and sampled as FS01-FS03 and SW01-SW04. Field screening results for soil samples FS01-FS03 and SW01-SW04 indicated that chloride concentrations were compliant with the Closure Criteria; benzene, BTEX, TPH-GRO/TPH-DRO, and TPH were compliant with the Closure Criteria as well. The 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 delineation sample locations were mapped utilizing a handheld GPS unit and are presented on Figure 3.

### **LABORATORY ANALYTICAL RESULTS**

Laboratory analytical results from excavation samples indicated all concentrations of benzene, BTEX, TPH, and chloride are compliant with the closure criteria. All surficial staining and impacted soil in the release area was removed. Excavation activities were performed using a backhoe and hydro-vacuum truck. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. The excavation was completed to an approximate depth of 5-foot bgs.

Following removal of impacted soil, WSP collected 5-point composite soil samples every 200 square feet from the floor 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. Composite soil samples FS01 through FS03 were collected



from the floor of the excavation, from a depth of 5-foot bgs. Due to the depth of the excavation, soil samples were taken for the sidewalls (SW) of the excavation (SW01 through SW04). The excavation SW soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3. Photographic documentation was completed during the Site visits and a photographic log is included in Attachment 3.

Laboratory analytical results for excavation soil samples FS01 through FS03 and SW01 through SW04 indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 4.

The excavation area measured approximately 464 square feet. A total of approximately 86 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation area was backfilled.

## **CLOSURE REQUEST**

Site assessment and excavation activities were conducted at the Site to address the July 26, 2021 release of natural gas and natural gas pipeline liquid. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Additionally, the release extent was laterally delineated to below the most stringent Table 1 Closure Criteria. Based on the soil sample analytical results, no further remediation was required. Lucid backfilled the excavation with material purchased locally and recontoured the Site to match pre-existing site conditions.

Initial response efforts and excavation of impacted soil have mitigated impacts at the Site. Depth to groundwater has been determined to be less than 50 feet bgs and no other sensitive receptors were identified near the release extent. WSP and Lucid believe these remedial actions are protective of human health, the environment, and groundwater. As such, Lucid respectfully requests NFA for Incident Number nAPP2120957757.

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

Sincerely,



District II  
Page 5

A handwritten signature in black ink, appearing to read 'Travis Casey'.

Travis Casey

Consultant, Environmental Scientist

A handwritten signature in black ink, appearing to read 'Steve Kahn'.

Steve Kahn

Managing Director



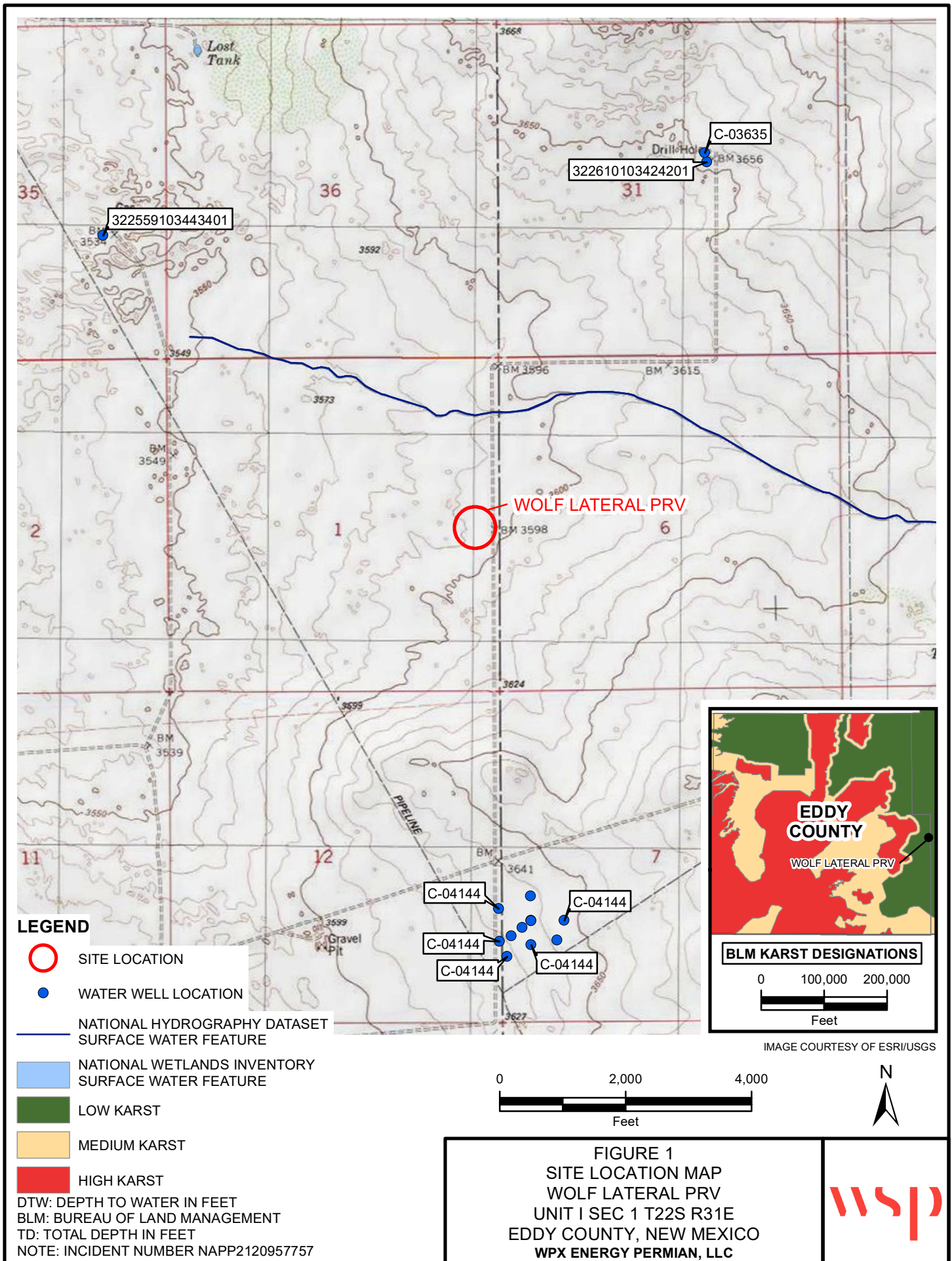
District II  
Page 6

Attachments:

Figure 1      Site Location Map  
Figure 2      Delineation Soil Sample Locations  
Figure 3      Excavation Soil Sample Locations  
Table 1      Soil Analytical Results  
Attachment 1 Referenced Well Records  
Attachment 2 Lithologic/Sampling Logs  
Attachment 3 Photographic Log  
Attachment 4 Laboratory Analytical Reports  
Attachment 5 Extension Request and Emails

FIGURES





P:\Lucid Energy Group\GIS\1403665.004\_WOLF LATERAL PRV\MXD\1403665.004\_FIG01\_SL\_RECEPTOR\_2022.mxd

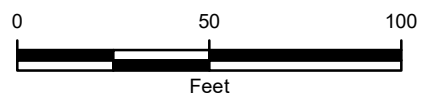


**LEGEND**

IMAGE COURTESY OF ESRI

- DELINEATION SOIL SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA
- DELINEATION SOIL SAMPLE WITH CONCENTRATIONS PREVIOUSLY EXCEEDING APPLICABLE CLOSURE CRITERIA
- DELINEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA

RELEASE EXTENT



NOTE: INCIDENT NUMBER NAPP2120957757  
 SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

**FIGURE 2**  
**DELINEATION SOIL SAMPLE LOCATIONS**  
 WOLF LATERAL PRV  
 UNIT I SEC 1 T22S R31E  
 EDDY COUNTY, NEW MEXICO  
 WPX ENERGY PERMIAN, LLC

**wsp**

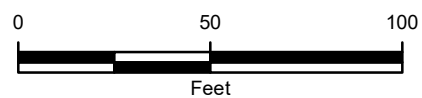
P:\Lucid Energy Group\GIS\31403665.004\_WOLF LATERAL PRV\MXD\31403665.004\_FIG02\_DELINEATION\_2022.mxd

**LEGEND**

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

EXCAVATION EXTENT

IMAGE COURTESY OF ESRI



NOTE: INCIDENT NUMBER NAPP2120957757  
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

**FIGURE 3**  
EXCAVATION SOIL SAMPLE LOCATIONS  
WOLF LATERAL PRV  
UNIT I SEC 1 T22S R31E  
EDDY COUNTY, NEW MEXICO  
**WPX ENERGY PERMIAN, LLC**

**wsp**

P:\Lucid Energy Group\GIS\31403665.004\_WOLF LATERAL PRV\MXD\31403665.004\_FIG03\_EXCAVATION\_2022.mxd

TABLES

Table 1

Soil Analytical Results  
 Wolf Lateral  
 Incident Number naPP2120957757  
 Eddy County, New Mexico  
 Lucid Artesia Company

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
Delineation Samples										
BH01	09/29/2021	1	<0.025	<0.10	<5.0	86	70	86	160	<60
BH01A	09/29/2021	4	<0.024	<0.10	<4.8	650	580	650	<b>1,200</b>	<61
BH02	09/29/2021	1	<0.12	<0.49	<25	2,300	1,800	2,300	<b>4,000</b>	<60
BH02A	09/29/2021	4	<0.025	<0.10	<4.9	92	96	92	<b>190</b>	84
BH03	09/29/2021	1	<0.025	<0.10	<4.9	14	<49	14	14	<60
BH03A	09/29/2021	4	<0.024	<0.09	<4.7	<9.8	<49	<9.8	<49	<60
BH04	09/29/2021	1	<0.024	<0.10	<4.9	<9.7	<48	<9.7	<48	<60
BH04A	09/29/2021	4	<0.024	<0.10	<4.9	<10	<50	<10	<50	<59
BH05	09/29/2021	1	<0.025	<0.10	<4.9	<10	<50	<10	<50	<60
BH05A	09/29/2021	4	<0.024	<0.10	<4.9	<9.3	<47	<9.4	<47	<60
BH06	09/29/2021	1	<0.025	<0.10	<4.9	<9.5	<48	<9.5	<48	<60
BH06A	09/29/2021	4	<0.025	<0.10	<5.0	<10	<50	<10	<50	<60

## Notes

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

&lt; - indicates result is less than the stated laboratory method practical quantitation limit

NE - Not Established

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

\* - indicates sample was collected in area to be reclaimed after remediation is complete; closure criteria for

Table 1

**Soil Analytical Results**  
**Wolf Lateral**  
**Incident Number naPP2120957757**  
**Eddy County, New Mexico**  
**Lucid Artesia Company**

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)
<b>NMOCD Table 1 Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	NE	NE	NE	NE	<b>100</b>	<b>600</b>
<b>Excavation Samples</b>										
SW01	02/21/2022	0-5	ND	ND	ND	17	ND	17	17	ND
SW02	02/21/2022	0-5	ND	ND	ND	ND	ND	ND	ND	ND
SW03	02/21/2022	0-5	ND	ND	ND	11	ND	11	11	93
SW04	02/21/2022	0-5	ND	ND	ND	14	ND	14	14	ND
FS01	02/21/2022	5	ND	ND	ND	ND	ND	ND	ND	ND
FS02	02/21/2022	5	ND	ND	ND	ND	ND	ND	ND	ND
FS03	02/21/2022	5	ND	ND	ND	ND	ND	ND	ND	84

ORO - motor oil range organics

chloride concentration in the top 4 feet of soil is 600 mg/kg and 100 mg/kg for TPH



ATTACHMENT 1: REFERENCED WELL RECORD





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
NA	C 04144 POD1	3	1	3	07	22S	32E	620240	3585844

x

Driller License: 1456

Driller Company: WHITE DRILLING COMPANY

Driller Name: ATKINS., WILLIAM B.

Drill Start Date: 01/29/2018

Drill Finish Date: 01/30/2018

Plug Date:

Log File Date: 02/15/2018

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: 2.00

Depth Well: 58 feet

Depth Water: 49 feet

Water Bearing Stratifications:	Top	Bottom	Description
	42	54	Sandstone/Gravel/Conglomerate
	54	56	Sandstone/Gravel/Conglomerate
	56	58	Shale/Mudstone/Siltstone

Casing Perforations:	Top	Bottom
	38	58

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.




**USGS Home**  
**Contact USGS**  
**Search USGS**

## National Water Information System: Web Interface

**USGS Water Resources** (Cooperator Access)

<b>Data Category:</b>	<b>Geographic Area:</b>	
Groundwater	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** =

- 322333103461301

**Minimum number of levels** = 1

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

### USGS 322333103461301 22S.31E.15.13223

**Available data for this site**

Groundwater:	Field measurements	GO
--------------	--------------------	----

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°23'40", Longitude 103°46'15" NAD27

Land-surface elevation 3,456 feet above NAVD88

The depth of the well is 170 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

#### Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

Graph of groundwater level data at USGS 322333103461301 22S.31E.15.13223

Breaks in the plot represent a gap of at least one year between field measurements.

[Download a presentation-quality graph](#)

---

[Questions about sites/data?](#)

[Feedback on this web site](#)

[Automated retrievals](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

[News](#)

[Accessibility](#)

[FOIA](#)

[Privacy](#)

[Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

**Title: Groundwater for USA: Water Levels**

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




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

Page Last Modified: 2022-03-21 15:48:18 EDT


0.66 0.59 nadww01


ATTACHMENT 2: LITHOLOGIC/SAMPLING LOG


 <b>WSP USA</b> 508 West Stevens Street Carlsbad, New Mexico 88220		BH or PH Name: <b>BH01</b>		Date: <b>9/29/21</b>				
		Site Name: <b>Wolf Lateral PRV</b>						
		RP or Incident Number:						
		WSP Job Number:						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Lat/Long:		Field Screening Chloride, PID		Logged By: <b>AC</b> Method: <b>Hand Auger</b>				
				Hole Diameter: <b>0.5'</b> Total Depth: <b>4'</b>				
Comments:								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		0-4'
D	<151	5.2	Y	BH01	1	1	SP	SAND, brown, Medium grained, poorly graded, no stain or odor
D	<151	4.9	N		2	2		
D	<151	1.4	N		3	3		coarse grained
D	<151	7.1	N		4	4	TO 4'	TO 4' Auger Refusal


 <b>WSP USA</b> 508 West Stevens Street Carlsbad, New Mexico 88220		BH or PH Name: <b>BH02</b>		Date: <b>9-29-21</b>				
		Site Name: <b>Wolf lateral PRV</b>						
		RP or Incident Number:						
		WSP Job Number:						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Lat/Long		Field Screening: Chloride, PID		Logged By: <b>AC</b> Hole Diameter: <b>0.5'</b> Method: <b>Hand Auger</b> Total Depth: <b>4'</b>				
Comments:								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		0-4'
D	2151	29.7	Y	BH02	1	1	SP	SAND, brown, Medium grained, poorly graded, moderate odor, some staining
D	2151	18.7	N		2	2		no stain,
D	2151	5.4	N		3	3		Faint odor, coarse grained
D	160	6.3	N		4	4	TD@4'	TD@4' Auger Refusal



 <p><b>WSP USA</b> 508 West Stevens Street Carlsbad, New Mexico 88220</p>		BH or PH Name: <b>BH03</b>		Date: <b>9-29-21</b>				
		Site Name: <b>WOLF Lateral PRV</b>						
		RP or Incident Number:						
		WSP Job Number:						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>				Logged By: <b>AL</b> Method: <b>Hand Auger</b> Hole Diameter: <b>0.5'</b> Total Depth: <b>4'</b>				
Lat/Long:		Field Screening: Chloride, PID		Comments:				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		0-4'
D	2151	0.2	N	BH03	1	1	SP	SAND, light brown, fine grained, poorly graded, no stain or odor
D	2151	0.1	N		2	2		
D	2151	0.3	N		3	3		orange brown color change, medium grained
D	2151	0.1	N		4	4	TDW4'	reddish brown color change, coarse grained TDW4' Auger Refusal

 <p><b>WSP USA</b> 508 West Stevens Street Carlsbad, New Mexico 88220</p>		BH or PH Name:		Date:				
		Bt04		9/29/21				
		Site Name: Wolf Lateral PCV						
		RP or Incident Number:						
WSP Job Number:								
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Lat/Long:		Field Screening:		Logged By: AC				
		Chloride, PID		Hole Diameter: 0.5'				
				Method: Hand Auger				
				Total Depth: 4'				
Comments:								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		0-4'
1)	2151	0.3	N	BH04	1	1	SP	SAND, brown, Fine grained, poorly graded, no stain or odor
1)	2151	0.5	N		2	2		
1)	2151	0.4	N		3	3		reddish brown, medium grained
1)	2151	0.2	N		4	4		Coarse grained.
							TO 4'	TO 4' Auger Refusal

 <p><b>WSP USA</b> 508 West Stevens Street Carlsbad, New Mexico 88220</p>		BH or PH Name: <b>BH05</b>		Date: <b>9/29/21</b>				
		Site Name: <b>WOLF Lateral PRV</b>						
		RP or Incident Number:						
		WSP Job Number:						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Lat/Long:		Field Screening: Chloride, PID		Logged By: <b>AC</b> Hole Diameter: <b>0.5'</b> Method: <b>Hand Auger</b> Total Depth: <b>4'</b>				
Comments:								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		0-4'
1)	2151	0.5	~	BH05	1	1	SP	SAND, light brown, Fine grained, poorly graded, no stain or odor
1)	2151	0.4	~		2	2		brown, medium grained.
1)	2151	0.3	~		3	3		
1)	2151	0.2	~		4	4	TD @ 4'	Reddish brown, coarse grained TD @ 4' Auger Refusal

 <p><b>WSP USA</b> 508 West Stevens Street Carlsbad, New Mexico 88220</p>		BH or PH Name: <b>BH06</b>		Date: <b>9/29/21</b>				
		Site Name: <b>WOLF Lateral PRV</b>						
		RP or Incident Number:						
		WSP Job Number:						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Lat/Long:		Field Screening: Chloride, PID		Logged By: <b>AC</b>				
				Method: <b>Hand Auger</b>				
				Hole Diameter: <b>0.5</b>				
				Total Depth: <b>4'</b>				
Comments:								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		0-4'
D	2151	0.1	N	BH06	1	1	SP	SAND, brown, medium grained, poorly graded, some caliche grains, no stain or odor
D	2151	0.3	N		2	2		
D	2151	0.2	N		3	3		Orange brown, coarse grained
D	2151	0.2	N		4	4	TD@4'	TD@4' Auger Refusal

ATTACHMENT 3: PHOTOGRAPHIC LOG



PHOTOGRAPHIC LOG		
Lucid Energy Group	Wolf Lateral PRV Lea County, New Mexico	31403665.004




Photo No.	Date	
1	September 29, 2021	
View of the Release area and Riser		 A photograph showing a dirt road in a rural area. In the foreground, there is a metal riser pipe sticking out of the ground. To the right, a white pickup truck is parked. In the background, there are power lines and a clear blue sky with some clouds.


Photo No.	Date	
2	September 29, 2021	
View of BH01		 A close-up photograph of a hole in the ground. The soil is reddish-brown and appears to be dry and crumbly. The hole is circular and goes down into the earth.



**PHOTOGRAPHIC LOG**

<b>Lucid Energy Group</b>	<b>Wolf Lateral PRV</b> <b>Lea County, New Mexico</b>	<b>31403665.004</b>
---------------------------	--	---------------------

<b>Photo No.</b>	<b>Date</b>	
3	September 29, 2021	
View of BH02		 A photograph showing a large, dark, circular hole in the ground, likely a borehole. The ground is reddish-brown soil. A large, curved metal pipe or valve is visible in the upper right corner of the frame.

<b>Photo No.</b>	<b>Date</b>	
4	September 29, 2021	
View of BH03		 A photograph showing a large, dark, circular hole in the ground, likely a borehole. The ground is reddish-brown soil. There is some sparse, dry vegetation around the hole.



PHOTOGRAPHIC LOG		
Lucid Energy Group	Wolf Lateral PRV Lea County, New Mexico	31403665.004



Photo No.	Date	
5	September 29, 2021	
View of BH04		

Photo No.	Date	
6	September 29, 2021	
View of BH05		





PHOTOGRAPHIC LOG		
Lucid Energy Group	Wolf Lateral PRV Lea County, New Mexico	31403665.004


Photo No.	Date	
7	September 29, 2021	
View of BH06		 A photograph showing a deep, circular hole (BH06) dug into reddish-brown soil. The hole is surrounded by dry, yellowish-brown grass and some small rocks. A black pipe or rod is visible extending from the top of the hole.

Photo No.	Date	
8	February 21, 2022	
Start of the Excavation		 A photograph showing a yellow CAT backhoe loader at the start of an excavation. The machine is positioned on a dirt road, and a large pile of reddish-brown soil is visible next to it. The excavation pit is deep and rectangular, with a smaller, shallower pit nearby. The background shows a flat, open landscape under a cloudy sky.



PHOTOGRAPHIC LOG		
Lucid Energy Group	Wolf Lateral PRV Lea County, New Mexico	31403665.004

Photo No.	Date	
9	February 21, 2022	
Excavation on East side		

Photo No.	Date	
10	February 21, 2022	
Excavation Facing West		



**PHOTOGRAPHIC LOG**

<b>Lucid Energy Group</b>	<b>Wolf Lateral PRV</b> <b>Lea County, New Mexico</b>	<b>31403665.004</b>
---------------------------	--	---------------------

<b>Photo No.</b>	<b>Date</b>	
11	February 21, 2022	
Excavation Facing East		



<b>Photo No.</b>	<b>Date</b>	
12	February 21, 2022	
Excavation Facing South		



ATTACHMENT 4: LABORATORY ANALYTICAL RESULTS





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

March 09, 2022

Joseph S. Hernandez

Lucid Energy  
201 South 4th St.  
Artesia, NM 88210  
TEL:  
FAX

RE: Wolf Lateral PRV

OrderNo.: 2202A45

Dear Joseph S. Hernandez:

Hall Environmental Analysis Laboratory received 7 sample(s) on 2/23/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://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 horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 2202A45

Date Reported: 3/9/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy

Client Sample ID: SW01

Project: Wolf Lateral PRV

Collection Date: 2/21/2022 11:23:00 AM

Lab ID: 2202A45-001

Matrix: SOIL

Received Date: 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	17	8.6		mg/Kg	1	2/25/2022 10:34:53 PM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	2/25/2022 10:34:53 PM
Surr: DNOP	110	51.1-141		%Rec	1	2/25/2022 10:34:53 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/25/2022 5:18:00 AM
Surr: BFB	110	70-130		%Rec	1	2/25/2022 5:18:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	2/25/2022 5:18:00 AM
Toluene	ND	0.050		mg/Kg	1	2/25/2022 5:18:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	2/25/2022 5:18:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	2/25/2022 5:18:00 AM
Surr: 4-Bromofluorobenzene	90.5	70-130		%Rec	1	2/25/2022 5:18:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	ND	60		mg/Kg	20	3/1/2022 11:46:20 PM

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	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 interference		

Page 1 of 12

## Analytical Report

Lab Order 2202A45

Date Reported: 3/9/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy

Client Sample ID: SW02

Project: Wolf Lateral PRV

Collection Date: 2/21/2022 11:25:00 AM

Lab ID: 2202A45-002

Matrix: SOIL

Received Date: 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/25/2022 10:45:41 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/25/2022 10:45:41 PM
Surr: DNOP	102	51.1-141		%Rec	1	2/25/2022 10:45:41 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/25/2022 5:38:00 AM
Surr: BFB	111	70-130		%Rec	1	2/25/2022 5:38:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	2/25/2022 5:38:00 AM
Toluene	ND	0.050		mg/Kg	1	2/25/2022 5:38:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	2/25/2022 5:38:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	2/25/2022 5:38:00 AM
Surr: 4-Bromofluorobenzene	89.9	70-130		%Rec	1	2/25/2022 5:38:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	ND	60		mg/Kg	20	3/2/2022 12:23:34 AM

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	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 interference		

Page 2 of 12

## Analytical Report

Lab Order 2202A45

Date Reported: 3/9/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy

Client Sample ID: SW03

Project: Wolf Lateral PRV

Collection Date: 2/21/2022 11:26:00 AM

Lab ID: 2202A45-003

Matrix: SOIL

Received Date: 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	11	9.9		mg/Kg	1	3/1/2022 5:57:11 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/1/2022 5:57:11 AM
Surr: DNOP	95.0	51.1-141		%Rec	1	3/1/2022 5:57:11 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/25/2022 6:37:00 AM
Surr: BFB	111	70-130		%Rec	1	2/25/2022 6:37:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	2/25/2022 6:37:00 AM
Toluene	ND	0.049		mg/Kg	1	2/25/2022 6:37:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/25/2022 6:37:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	2/25/2022 6:37:00 AM
Surr: 4-Bromofluorobenzene	92.3	70-130		%Rec	1	2/25/2022 6:37:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	93	60		mg/Kg	20	3/2/2022 12:35:59 AM

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	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 interference		

Page 3 of 12

## Analytical Report

Lab Order 2202A45

Date Reported: 3/9/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy

Client Sample ID: SW04

Project: Wolf Lateral PRV

Collection Date: 2/21/2022 11:28:00 AM

Lab ID: 2202A45-004

Matrix: SOIL

Received Date: 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	14	9.2		mg/Kg	1	3/4/2022 11:03:51 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/4/2022 11:03:51 AM
Surr: DNOP	89.5	51.1-141		%Rec	1	3/4/2022 11:03:51 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/25/2022 6:57:00 AM
Surr: BFB	105	70-130		%Rec	1	2/25/2022 6:57:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	2/25/2022 6:57:00 AM
Toluene	ND	0.050		mg/Kg	1	2/25/2022 6:57:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	2/25/2022 6:57:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	2/25/2022 6:57:00 AM
Surr: 4-Bromofluorobenzene	91.1	70-130		%Rec	1	2/25/2022 6:57:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	ND	59		mg/Kg	20	3/1/2022 11:12:47 PM

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	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 interference		

Page 4 of 12



## Analytical Report

Lab Order 2202A45

Date Reported: 3/9/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy

Client Sample ID: FS01

Project: Wolf Lateral PRV

Collection Date: 2/21/2022 11:30:00 AM

Lab ID: 2202A45-005

Matrix: SOIL

Received Date: 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	3/1/2022 6:18:39 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/1/2022 6:18:39 AM
Surr: DNOP	95.1	51.1-141		%Rec	1	3/1/2022 6:18:39 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/25/2022 7:16:00 AM
Surr: BFB	110	70-130		%Rec	1	2/25/2022 7:16:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	2/25/2022 7:16:00 AM
Toluene	ND	0.050		mg/Kg	1	2/25/2022 7:16:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	2/25/2022 7:16:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	2/25/2022 7:16:00 AM
Surr: 4-Bromofluorobenzene	92.6	70-130		%Rec	1	2/25/2022 7:16:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	ND	60		mg/Kg	20	3/1/2022 11:25:11 PM

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	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 interference		

## Analytical Report

Lab Order 2202A45

Date Reported: 3/9/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy

Client Sample ID: FS02

Project: Wolf Lateral PRV

Collection Date: 2/21/2022 11:31:00 AM

Lab ID: 2202A45-006

Matrix: SOIL

Received Date: 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	3/1/2022 6:29:22 AM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	3/1/2022 6:29:22 AM
Surr: DNOP	101	51.1-141		%Rec	1	3/1/2022 6:29:22 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/25/2022 7:36:00 AM
Surr: BFB	107	70-130		%Rec	1	2/25/2022 7:36:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	2/25/2022 7:36:00 AM
Toluene	ND	0.049		mg/Kg	1	2/25/2022 7:36:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/25/2022 7:36:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	2/25/2022 7:36:00 AM
Surr: 4-Bromofluorobenzene	93.2	70-130		%Rec	1	2/25/2022 7:36:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	ND	60		mg/Kg	20	3/1/2022 11:37:35 PM

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	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 interference		

Page 6 of 12

## Analytical Report

Lab Order 2202A45

Date Reported: 3/9/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy

Client Sample ID: FS03

Project: Wolf Lateral PRV

Collection Date: 2/21/2022 11:32:00 AM

Lab ID: 2202A45-007

Matrix: SOIL

Received Date: 2/23/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	3/1/2022 6:40:03 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/1/2022 6:40:03 AM
Surr: DNOP	97.4	51.1-141		%Rec	1	3/1/2022 6:40:03 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/25/2022 7:56:00 AM
Surr: BFB	111	70-130		%Rec	1	2/25/2022 7:56:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	2/25/2022 7:56:00 AM
Toluene	ND	0.049		mg/Kg	1	2/25/2022 7:56:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/25/2022 7:56:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	2/25/2022 7:56:00 AM
Surr: 4-Bromofluorobenzene	93.9	70-130		%Rec	1	2/25/2022 7:56:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	84	59		mg/Kg	20	3/1/2022 11:49:59 PM

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	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 interference		

Page 7 of 12

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

WO#: 2202A45

09-Mar-22

**Client:** Lucid Energy  
**Project:** Wolf Lateral PRV

Sample ID: <b>MB-65883</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65883</b>	RunNo: <b>86175</b>								
Prep Date: <b>3/1/2022</b>	Analysis Date: <b>3/1/2022</b>	SeqNo: <b>3037392</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-65883</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65883</b>	RunNo: <b>86175</b>								
Prep Date: <b>3/1/2022</b>	Analysis Date: <b>3/1/2022</b>	SeqNo: <b>3037393</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.0	90	110			

Sample ID: <b>MB-65882</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65882</b>	RunNo: <b>86158</b>								
Prep Date: <b>3/1/2022</b>	Analysis Date: <b>3/1/2022</b>	SeqNo: <b>3037786</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-65882</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65882</b>	RunNo: <b>86158</b>								
Prep Date: <b>3/1/2022</b>	Analysis Date: <b>3/1/2022</b>	SeqNo: <b>3037787</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.5	90	110			

**Qualifiers:**

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
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 interference		

Page 8 of 12

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

WO#: 2202A45

09-Mar-22

**Client:** Lucid Energy  
**Project:** Wolf Lateral PRV

Sample ID: <b>LCS-65789</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65789</b>	RunNo: <b>86063</b>								
Prep Date: <b>2/24/2022</b>	Analysis Date: <b>2/25/2022</b>	SeqNo: <b>3033150</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	108	68.9	135			
Surr: DNOP	5.0		5.000		101	51.1	141			

Sample ID: <b>MB-65789</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65789</b>	RunNo: <b>86063</b>								
Prep Date: <b>2/24/2022</b>	Analysis Date: <b>2/25/2022</b>	SeqNo: <b>3033151</b> Units: <b>mg/Kg</b>								
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	10		10.00		103	51.1	141			

Sample ID: <b>MB-65804</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65804</b>	RunNo: <b>86130</b>								
Prep Date: <b>2/25/2022</b>	Analysis Date: <b>2/28/2022</b>	SeqNo: <b>3036102</b> Units: <b>mg/Kg</b>								
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	11		10.00		105	51.1	141			

Sample ID: <b>LCS-65804</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65804</b>	RunNo: <b>86130</b>								
Prep Date: <b>2/25/2022</b>	Analysis Date: <b>2/28/2022</b>	SeqNo: <b>3036103</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	101	68.9	135			
Surr: DNOP	5.3		5.000		107	51.1	141			

Sample ID: <b>2202A45-003AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>SW03</b>	Batch ID: <b>65804</b>	RunNo: <b>86129</b>								
Prep Date: <b>2/25/2022</b>	Analysis Date: <b>3/1/2022</b>	SeqNo: <b>3036130</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	61	9.5	47.26	11.05	105	39.3	155			
Surr: DNOP	4.2		4.726		88.1	51.1	141			

**Qualifiers:**

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
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 interference		



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

WO#: 2202A45

09-Mar-22

**Client:** Lucid Energy  
**Project:** Wolf Lateral PRV

Sample ID: <b>2202A45-003AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>SW03</b>	Batch ID: <b>65804</b>	RunNo: <b>86129</b>								
Prep Date: <b>2/25/2022</b>	Analysis Date: <b>3/1/2022</b>	SeqNo: <b>3036132</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	9.2	46.04	11.05	102	39.3	155	4.24	23.4	
Surr: DNOP	3.9		4.604		84.9	51.1	141	0	0	

Sample ID: <b>LCS-65926</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65926</b>	RunNo: <b>86243</b>								
Prep Date: <b>3/3/2022</b>	Analysis Date: <b>3/4/2022</b>	SeqNo: <b>3040887</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.0	68.9	135			
Surr: DNOP	4.1		5.000		82.7	51.1	141			

Sample ID: <b>MB-65926</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65926</b>	RunNo: <b>86243</b>								
Prep Date: <b>3/3/2022</b>	Analysis Date: <b>3/4/2022</b>	SeqNo: <b>3040889</b>	Units: <b>mg/Kg</b>							
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	8.8		10.00		88.4	51.1	141			

**Qualifiers:**

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
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 interference		

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

WO#: 2202A45

09-Mar-22

**Client:** Lucid Energy  
**Project:** Wolf Lateral PRV

Sample ID: <b>lcs-65767</b>	SampType: <b>LCS</b>				TestCode: <b>EPA Method 8015D: Gasoline Range</b>					
Client ID: <b>LCSS</b>	Batch ID: <b>65767</b>				RunNo: <b>86093</b>					
Prep Date: <b>2/23/2022</b>	Analysis Date: <b>2/25/2022</b>				SeqNo: <b>3033506</b>	Units: <b>mg/Kg</b>				
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		119	70	130			

Sample ID: <b>mb-65767</b>	SampType: <b>MBLK</b>				TestCode: <b>EPA Method 8015D: Gasoline Range</b>					
Client ID: <b>PBS</b>	Batch ID: <b>65767</b>				RunNo: <b>86093</b>					
Prep Date: <b>2/23/2022</b>	Analysis Date: <b>2/25/2022</b>				SeqNo: <b>3033507</b>	Units: <b>mg/Kg</b>				
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		112	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 interference

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

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

WO#: 2202A45

09-Mar-22

**Client:** Lucid Energy  
**Project:** Wolf Lateral PRV

Sample ID: <b>lcs-65767</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>65767</b>			RunNo: <b>86093</b>						
Prep Date: <b>2/23/2022</b>	Analysis Date: <b>2/25/2022</b>			SeqNo: <b>3033704</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.8	80	120			
Toluene	0.97	0.050	1.000	0	97.3	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.4	80	120			
Xylenes, Total	2.9	0.10	3.000	0	98.3	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		93.8	70	130			

Sample ID: <b>mb-65767</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>65767</b>			RunNo: <b>86093</b>						
Prep Date: <b>2/23/2022</b>	Analysis Date: <b>2/25/2022</b>			SeqNo: <b>3033705</b>		Units: <b>mg/Kg</b>				
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	0.94		1.000		94.2	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 interference

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



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

## Sample Log-In Check List

Client Name: Lucid Energy

Work Order Number: 2202A45

RcptNo: 1

Received By: Cheyenne Cason

2/23/2022 7:45:00 AM

*CC*

Completed By: Sean Livingston

2/23/2022 8:41:16 AM

*SL*

Reviewed By:

*JO*

2/23/22

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  $6.0^{\circ}\text{C}$ ? 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:

(&lt;2 or &gt;12 unless noted)

Adjusted? \_\_\_\_\_

Checked by: *JO 2/23/22*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	1.0	Good				
2	2.3	Good				





ATTACHMENT 5: Extension Request and Emails

**Casey, Travis**

---

**From:** Michael Gant <MGant@lucid-energy.com>  
**Sent:** Wednesday, April 20, 2022 10:57 AM  
**To:** Casey, Travis  
**Subject:** FW: [EXTERNAL] Lucid Energy Group - Extension Request - Wolf Lateral PRV (nAPP2120957757)

Wolf Lateral 2<sup>nd</sup> extension request

---

**From:** Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>  
**Sent:** Friday, January 21, 2022 12:50 PM  
**To:** Hernandez, Joseph <Joe.Hernandez@wsp.com>; Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>; Billings, Bradford, EMNRD <Bradford.Billings@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>  
**Cc:** Michael Gant <MGant@lucid-energy.com>  
**Subject:** RE: [EXTERNAL] Lucid Energy Group - Extension Request - Wolf Lateral PRV (nAPP2120957757)

Hi Joseph,

Your request for a 2<sup>nd</sup> time extension to 04/22/2022 is approved.

As you mentioned, the initial time extension was requested in October 2021.

Thank you and have a great weekend.

Regards,

**Nelson Velez** • Environmental Specialist - Adv  
Environmental Bureau | EMNRD - Oil Conservation Division  
1000 Rio Brazos Road | Aztec, NM 87410  
(505) 469-6146 | [nelson.velez@state.nm.us](mailto:nelson.velez@state.nm.us)

---

**From:** Hernandez, Joseph <[Joe.Hernandez@wsp.com](mailto:Joe.Hernandez@wsp.com)>  
**Sent:** Friday, January 21, 2022 9:19 AM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@state.nm.us](mailto:OCD.Enviro@state.nm.us)>; Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>; Velez, Nelson, EMNRD <[Nelson.Velez@state.nm.us](mailto:Nelson.Velez@state.nm.us)>; Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>  
**Cc:** Michael Gant <[MGant@lucid-energy.com](mailto:MGant@lucid-energy.com)>  
**Subject:** [EXTERNAL] Lucid Energy Group - Extension Request - Wolf Lateral PRV (nAPP2120957757)

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

All,

Lucid Energy Group (Lucid) is requesting an extension to the current deadline for submitting a remediation work plan, deferral report or closure report required in 19.15.29.12.B.(1) NMAC at the Wolf Lateral PRV. A natural gas release was discovered on July 26, 2021 and was assigned Incident Number nAPP2120957757. WSP submitted an extension request to NMOCED on October 22, 2021. Initial site assessment and characterization of the release have been completed. Lucid received BLM access approval for soil disturbance at the site on January 13, 2021. At this time, remedial activities are scheduled to begin to address impacts in an effort to ensure protection of public health and the environment. To provide

enough time for remediation activities, confirmation sampling and the completion of remediation work plan, deferral report or closure report, Lucid requests an extension of the deadline to **April 22, 2022**.



**Joseph S. Hernandez**  
Consultant, Geologist

M+ 1 281-702-2329

WSP USA Inc.  
Texas and New Mexico

[wsp.com](http://wsp.com)

---

NOTICE: This communication and any attachments ("this message") may contain information which is privileged, confidential, proprietary or otherwise subject to restricted disclosure under applicable law. This message is for the sole use of the intended recipient(s). Any unauthorized use, disclosure, viewing, copying, alteration, dissemination or distribution of, or reliance on, this message is strictly prohibited. If you have received this message in error, or you are not an authorized or intended recipient, please notify the sender immediately by replying to this message, delete this message and all copies from your e-mail system and destroy any printed copies.

.LAEmHhHzdJz8ITWfa4Hqs7pbKl

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

**Casey, Travis**

---

**From:** Michael Gant <MGant@lucid-energy.com>  
**Sent:** Wednesday, April 20, 2022 10:56 AM  
**To:** Casey, Travis  
**Subject:** FW: Lucid Artesia Company - Extension Request (Wolf Lateral PRV)

Travis,

Can you please include this extension request email to the closure report as an appendix or figure? Mike Bratcher has recently informed us that extension requests need to be included in closure reports. I will be sending the 2<sup>nd</sup> extension request email shortly.

Please let me know if you have any questions or concerns.

Thanks,

**Michael Gant**

Environmental Compliance Manager



Lucid Energy Group

3100 McKinnon St. #800

Dallas, TX 75201

+1(314) 330 7876 Cell

[mgant@lucid-energy.com](mailto:mgant@lucid-energy.com) | [www.lucid-energy.com](http://www.lucid-energy.com)

---

**From:** Hernandez, Joseph <Joe.Hernandez@wsp.com>  
**Sent:** Friday, October 22, 2021 1:04 PM  
**To:** ocd.enviro@state.nm.us  
**Cc:** Michael Gant <MGant@lucid-energy.com>; Moir, Dan <Dan.Moir@wsp.com>; Belill, Benjamin <Ben.Belill@wsp.com>  
**Subject:** Lucid Artesia Company - Extension Request (Wolf Lateral PRV)

[WSP USA | Confidential]

Lucid Artesia Company (Lucid) is requesting an extension to the current deadline for submitting a remediation work plan, deferral report or closure report required in 19.15.29.12.B.(1) NMAC at the Wolf Lateral PRV. A natural gas release was discovered on July 26, 2021 and was assigned Incident Number nAPP2120957757. Initial site assessment and characterization of the release have been completed. At this time, Lucid is evaluating remedial options to address impacts in an effort to ensure protection of public health and the environment, while remaining compliant with Lucid's safety guidelines. Further site assessment and sampling was completed on September 29, 2021. To provide enough time for further site assessment, confirmation sampling and the completion of remediation work plan, deferral report or closure report, Lucid requests an extension of the deadline to **January 22, 2021**.

Thank you,

**Joseph S. Hernandez**

Associate Consultant, Geologist



M+ 1 281-702-2329

WSP USA

[wsp.com](http://wsp.com)

[WSP USA | Confidential]

---

NOTICE: This communication and any attachments ("this message") may contain information which is privileged, confidential, proprietary or otherwise subject to restricted disclosure under applicable law. This message is for the sole use of the intended recipient(s). Any unauthorized use, disclosure, viewing, copying, alteration, dissemination or distribution of, or reliance on, this message is strictly prohibited. If you have received this message in error, or you are not an authorized or intended recipient, please notify the sender immediately by replying to this message, delete this message and all copies from your e-mail system and destroy any printed copies.

LAEmHhHxdJz8ITWfa4Hqs7pbK1

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.



ATTACHMENT 6: C141 Closure Request

Incident ID	
District RP	
Facility ID	
Application ID	

## Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 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: Michael Gant Title: Environmental Compliance Manager

Signature:  Date: 4/22/2022

email: MGant@lucid-energy.com Telephone: 3143307876

### OCD Only

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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: 06/02/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

**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 100906

CONDITIONS

Operator: LUCID ENERGY DELAWARE, LLC 201 S. Fourth Street Artesia, NM 88210	OGRID: 372422
	Action Number: 100906
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	6/2/2022