

April 26, 2022

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

**RE: Closure Request  
Lotus Lateral Poly 8"  
Incident Number NAPP2123850791  
Lea 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 Lotus Lateral Poly 8" (Site) located in Unit G, Section 29, Township 22 South, Range 32 East, in Lea 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 at the Site. Based on the excavation activities and confirmation soil sample laboratory analytical results, Lucid is submitting this Closure Request, and requesting no further action (NFA) for Incident Number NAPP2123850791.

#### **RELEASE BACKGROUND**

On August 24, 2021, a rupture at a weld on a poly line resulted in the release of 9,618 thousand cubic feet (MCF) of natural gas and 5 barrels (bbls) of natural gas pipeline liquid onto the pipeline right-of-way (ROW). Four bbls of pipeline fluid were able to be recovered but the escaped natural gas was 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 26, 2021. The release was assigned Incident Number NAPP2123850791.

#### **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 greater than 50 feet below ground surface (bgs) based on a recent soil boring drilled for determination of regional groundwater depth. In March 2022, WSP installed a soil boring (BH01) within 0.5 miles of the Site utilizing a truck-mounted hollow-stem auger rig. Soil boring BH01 was drilled to a depth of 57 feet bgs. A WSP geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The borehole lithologic/soil sampling log is included in Attachment 1. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. No

groundwater was observed. It was confirmed by NMOSE District 2 that groundwater beneath the Site is greater than 57 feet bgs. The borehole was properly plugged and abandoned with drill cuttings and hydrated bentonite chips.

The closest continuously flowing or significant watercourse to the Site is an intermittent stream bed, located approximately 7,591 feet northwest 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): 1,000 mg/kg
- Chloride: 10,000 mg/kg

A reclamation standard of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top four feet of the subsurface, per NMAC 19.15.29.13.D (1) for the top four feet of areas that will be reclaimed following remediation.

### **SITE ASSESSMENT ACTIVITIES AND DELINEATION ACTIVITIES AND ANALYTICAL RESULTS**

On September 30, 2021, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Boreholes BH01 through BH06 were advanced via hand auger within the release extent to depths ranging from 4 to 9 ft bgs to assess the vertical extent of impacted soil. Discrete delineation samples were collected from each borehole at depths ranging from 1-foot to 9 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 that BH01 at 4 ft, exceeded the TPH Closure Criteria. Concentration of benzene, BTEX, and chloride in all boreholes were compliant with the Site Closure Criteria. Based on the laboratory analytical results, excavation activities were warranted

### **EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS**

Based on field screening activities, visible staining, and laboratory analytical results for the delineation soil samples, excavation activities were completed to remove the impacted soil. On April 14, 2022, WSP personal returned to the Site to oversee excavation activities which were performed using track-mounted backhoe and transport vehicle. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. Following removal of impacted soil, WSP collected 5-point composite soil samples every 200 square feet from the sidewalls and floor of the excavations. 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 FS01-03 were collected from the floor of the excavations from a depth of 4 feet bgs. Composite sidewall (SW) soil samples SW01 through SW03 were collected from the sidewalls of the excavation at depths ranging from ground surface to 4 feet bgs. 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 from excavation soil samples FS01 through FS03 and SW01 through SW03 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 673 square feet. A total of approximately 100 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 August 24, 2021, release of natural gas and natural gas pipeline liquid. Laboratory analytical results for the soil samples, collected from the floor and sidewalls of the excavation, indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the 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 greater than 50 feet bgs and no other sensitive receptors were identified near the release extent. WSP and Lucid believe these remedial actions

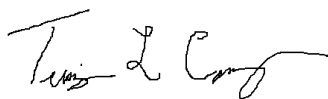
are protective of human health, the environment, and groundwater. As such, Lucid respectfully requests NFA for Incident Number NAPP2123850791.

If you have any questions or comments, please do not hesitate to contact Mr. Travis L. Casey at 575-689-5949.

Sincerely,

Handwritten signature of Payton Benner in cursive.

Payton Benner  
Assistant Consultant, Geologist

Handwritten signature of Travis L. Casey in cursive.

Travis L. Casey  
Consultant, Environmental Scientist



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 Lithologic/Sampling Logs
- Attachment 2 Photographic Log
- Attachment 3 Laboratory Analytical Reports

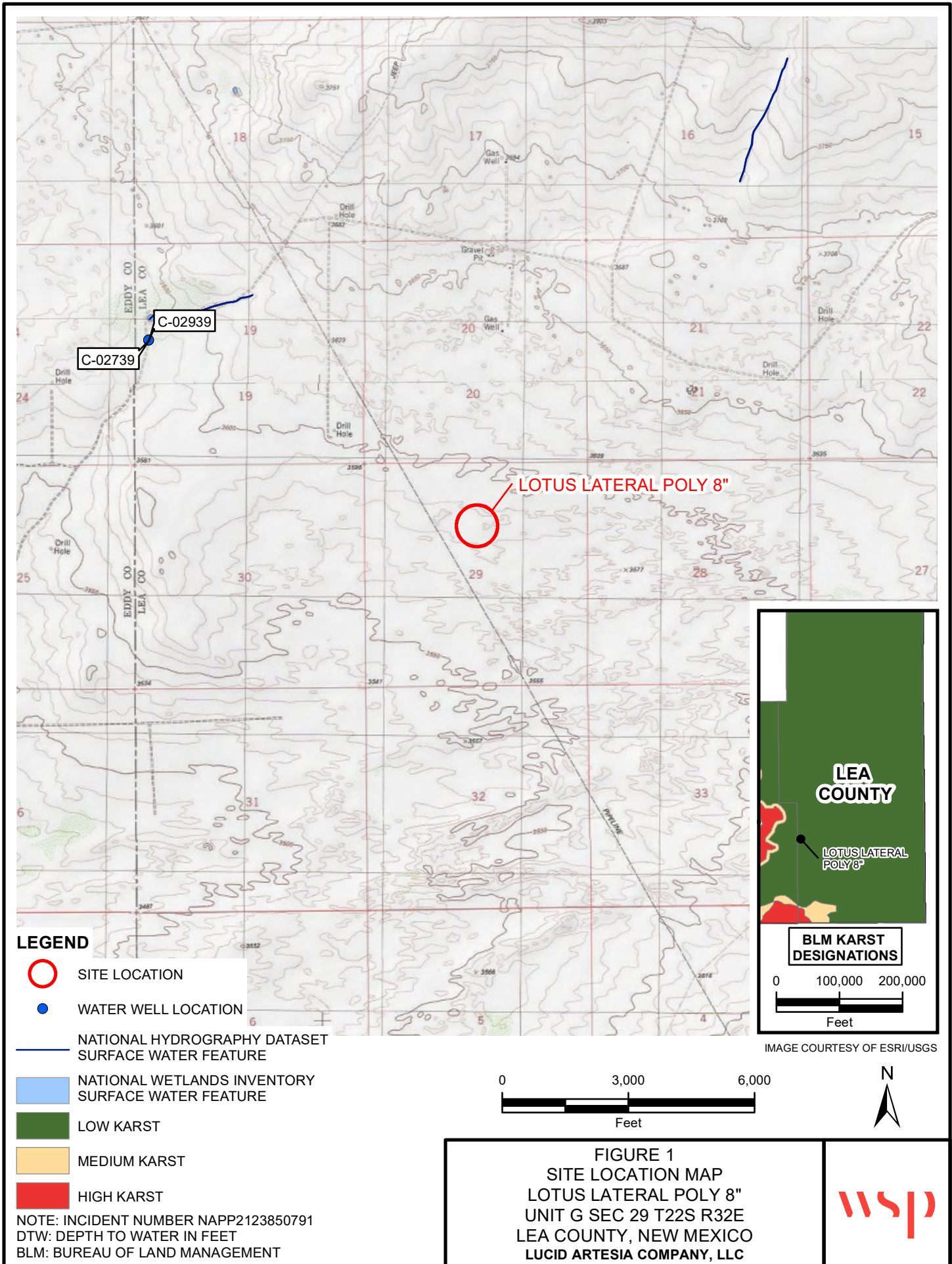


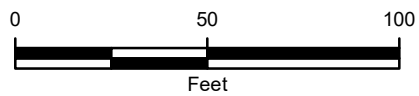




IMAGE COURTESY OF ESRI

**LEGEND**

- DELINEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA



**FIGURE 2**  
**DELINEATION SOIL SAMPLE LOCATIONS**  
 LOTUS LATERAL POLY 8"  
 UNIT G SEC 29 T22S R32E  
 LEA COUNTY, NEW MEXICO  
 LUCID ARTESIA COMPANY, LLC



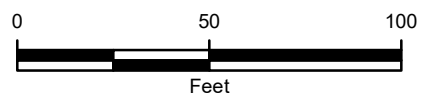
NOTE: INCIDENT NUMBER NAPP2123850791  
 SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)



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 NAPP2123850791  
 SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

**FIGURE 3**  
 EXCAVATION SOIL SAMPLE LOCATIONS  
 LOTUS LATERAL POLY 8"  
 UNIT G SEC 29 T22S R32E  
 LEA COUNTY, NEW MEXICO  
 LUCID ARTESIA COMPANY, LLC



TABLES



**Table 1**  
**Soil Analytical Results**  
**Lotus Lateral Poly 8"**  
**Incident Number NAPP2123850791**  
**Lea County, New Mexico**

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (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>			10	50	NE	NE	NE	NE	1,000	10,000
<b>Delineation Soil Samples</b>										
BH01	09/30/2022	4	<0.024	<0.10	380	<4.9	260	380	650	510
BH01A	09/30/2022	8	<0.024	<0.10	12	<4.8	<47	12	12	1,400
BH02	09/30/2022	4	<0.12	<0.49	29	<25	<49	29	29	5,200
BH02A	09/30/2022	9	<0.025	<0.10	<9.7	<5	<49	<9.7	<49	5,200
BH03	09/30/2022	1	<0.025	<0.10	<9.9	<5	<50	<9.9	<50	<60
BH03A	09/30/2022	4	<0.024	<0.10	<9.7	<4.8	<48	<9.7	<48	<60
BH04	09/30/2022	1	<0.025	<0.10	<9.9	<4.9	<50	<9.9	<50	150
BH04A	09/30/2022	4	<0.025	<0.10	<9.9	<4.9	<50	<9.9	<50	400
BH04B	09/30/2022	6	<0.024	<0.10	<9.5	<4.9	<47	<9.5	<47	740
BH05	09/30/2022	1	<0.025	<0.10	<9.3	<5	<47	<9.3	<47	<61
BH05A	09/30/2022	4	<0.00024	<0	<9.6	<0.049	<48	<9.6	<48	100
BH06	09/30/2022	1	<0.024	<0.10	<9.6	<4.9	<48	<9.6	<48	<60
BH06A	09/30/2022	4	<0.024	<0.10	<9.8	<4.9	<49	<9.8	<49	<61
<b>Excavation Floor Samples</b>										
FS01	04/14/2022	4	<0.0015	<0.06	84	57	140	84	84	2,100
FS02	04/14/2022	4	<0.0015	<0.06	520	410	940	520	520	940
FS03	04/14/2022	4	<0.0015	<0.06	40	<47	40	40	40	320
<b>Excavation Sidewall Samples</b>										
SW01	04/14/2022	0 - 4	<0.0015	<0.06	31	<49	31	31	31	600
SW02	04/14/2022	0 - 4	<0.0015	<0.06	<10	<50	<50	<10	<10	<60

**Table 1**  
**Soil Analytical Results**  
**Lotus Lateral Poly 8"**  
**Incident Number NAPP2123850791**  
**Lea County, New Mexico**

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (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>			10	50	NE	NE	NE	NE	1,000	10,000
SW03	04/14/2022	0 - 4	<0.0015	<0.06	<909	<50	<50	<9.9	<9.9	250

**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

ORO - oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

< - 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


Greyed data represents samples that were excavated







 <p><b>WSP USA</b> 508 West Stevens Street Carlsbad, New Mexico 88220</p>				BH or PH Name <b>BH01</b>		Date <b>9/30/21</b>		
				Site Name: <b>Leto's Lateral Pdy 8"</b>				
RP or Incident Number:								
WSP Job Number:								
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>				Logged By: <b>AC</b>		Method: <b>Hand Auger</b>		
Lat/Long			Field Screening Chloride, PID		Hole Diameter: <b>0.5'</b>		Total Depth: <b>8'</b>	
Comments:								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
					0			4-8'
D	764	39.7	y	BH01	4	4	SM	SILTY SAND Brown, medium grained; poorly graded, Strong odor, some staining
D	6,476	72.2	y		5	5		Very strong odor
M	2,604	2.3	N		6	6		Orange brown color change, coarse grained, Faint odor
M	1,324	5.2	N		7	7		
M	1,562	4.6	N		8	8	<del>TD @ 8'</del>	TD @ 8' Auger Refusal


 <p><b>WSP USA</b> 508 West Stevens Street Carlsbad, New Mexico 88220</p>		BH or PH Name: <b>BH02</b>	Date: <b>9/30/21</b>					
		Site Name: <b>Lotus Lateral</b>	RP or Incident Number:					
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>		WSP Job Number:	Logged By: <b>AE</b>					
		Method: <b>Hand Auger</b>	Field Screening Chloride, PID					
Lat/Long:	Hole Diameter: <b>0.5'</b>	Total Depth: <b>8'</b>						
Comments								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
						0		4-8'
D	12.3	827	Y	BH02	4	4	SM	SILTY SAND, brown, medium grained, poorly graded, moderate odor, some staining
D	5.7	7,528	Y		5	5		font odor
M	3.0	6,476	N		6	6		
M	9.2	4,072	N		7	7		reddish brown color change, coarse grained
M	3.5	4,072	N		8	8		
							TD@8'	TD@8' Auger Refusal


 <p>WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220</p>				BH or PH Name <b>BH03</b>		Date <b>9/30/21</b>			
				Site Name: <del>MUDWATER Lateral</del> <del>PRV</del> <del>Lotus Lateral</del>					
LITHOLOGIC / SOIL SAMPLING LOG						Logged By: <b>AC</b>		Method: <b>Hand Auger</b>	
Lat/Long:				Field Screening Chloride, PID		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	215i	0.1	N	BH03	1	1	SM	SILTY SAND, brown, fine grained, Poorly graded, no stain or odor	
D	160	0.2	N		2	2			
M	160	0.1	N		3	3		orange brown color change, coarse grained	
M	215i	0.3	N		4	4	<del>TD@4'</del>	TD@4' Auger Refusal	


 <p><b>WSP USA</b> 508 West Stevens Street Carlsbad, New Mexico 88220</p>				BH or PH Name: <b>BH04</b>		Date: <b>9/30/31</b>		
				Site Name: <b>Ac 100 Lotus Lateral Poly 8"</b>				
RP or Incident Number:								
WSP Job Number:								
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>				Logged By: <b>AC</b>		Method: <b>Hand Auger</b>		
Lat/Long:			Field Screening: Chloride, PID		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	198	0.1	N	BH04	1	1	SM	SILTY SAND, light brown, Fine grained, Poorly graded, no stain or odor
D	220	0.2	N		2	2		
M	480	0.3	N		3	3		brown
M	572	0.2	N		4	4	<del>T004'</del>	T004' 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>9/30/21</b>			
				Site Name: <b>Lotus Lateral Poly 8"</b>				RP or Incident Number:	
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>						Logged By: <b>AC</b>		Method: <b>Hand Auger</b>	
Lat/Long			Field Screening Chloride, PID			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	BH05	1	1	SM	SILTY SAND, brown, Fine-medium grained, poorly graded, no stain or odor	
D	2151	0.1	N		2	2			
D	436	0.2	N		3	3		dark brown, medium to coarse grained	
M	160	0.1	N		4	4		TD 4'	




 <p><b>WSP USA</b> 508 West Stevens Street Carlsbad, New Mexico 88220</p>		BH or PH Name: <b>BIT06</b>	Date: <b>9/30/21</b>					
		Site Name: <b>Lotus Lateral Poly 8"</b>						
LITHOLOGIC / SOIL SAMPLING LOG								
Lat/Long		Field Screening: Chloride, PID	Logged By: <b>AL</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	0.3	N	BIT06	1	1	SM	SILTY SAND, light brown, Fine grained, Poorly graded, no stain or odor
D	2151	0.4	N		2	2		
D	2151	0.7	N		3	3		brown, medium grained
M	2151	0.4	N		4	4	<u>TD04'</u>	TD 4' Auger Refusal

 <p style="text-align: center;"><b>WSP USA</b> 508 West Stevens Street Carlsbad, New Mexico 88220</p>				BH or PH Name: BH01		Date: 03-30-2022					
				Site Name: Lotus Lateral Poly 8				RP or Incident Number: NAPP212850791			
				WSP Job Number: 31403665.001				Logged By: PB, MR		Method: Air Rotary	
				Lat/Long: 32.3634, -103.703442		Field Screening: N/A		Hole Diameter: 0.5		Total Depth: 57 Ft	
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>											
Comments: SAA; SAME AS ABOVE M-moist; D-dry; Y-yes; N-no											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
D	N/A	N/A	N	BHO1	43-47	43 44 45 46 47	CL-S	43-47'; CLAYSTONE, dry, deep brown, brown-brown, poorly graded, well sorted, abundant silt, well sorted well graded, no stain, no odor, high plasticity. well consolidation, sub-angular quartz grains			
D	N/A	N/A	N		48-53	48 49 50 51 52	CL-S	48-53'; CLAYSTONE, dry, deep brown, brown-brown, poorly graded, well sorted, abundant silt, well sorted well graded, no stain, no odor, high plasticity. well consolidation, sub-angular quartz grains			
D	N/A	N/A	N		54-57'	53 54 55 56 57	CL-S	53-57'; CLAYSTONE, dry, deep brown, brown-brown, poorly graded, well sorted, abundant silt, well sorted well graded, no stain, no odor, high plasticity. well consolidation, sub-angular quartz grains			

 <p style="text-align: center;"><b>WSP USA</b> 508 West Stevens Street Carlsbad, New Mexico 88220</p>				BH or PH Name: BH01		Date: 03-30-2022			
				Site Name: Lotus Lateral Poly 8				RP or Incident Number: NAPP212850791	
				WSP Job Number: 31403665.001					
				<b>LITHOLOGIC / SOIL SAMPLING LOG</b>				Logged By: PB, MR	
Lat/Long: 32.3634, -103.703442			Field Screening: N/A			Hole Diameter: 0.5		Total Depth: 57 Ft	
Comments: SAA; SAME AS ABOVE M-moist; D-dry; Y-yes; N-no									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	
M	N/A	N/A	N	BHO1	25-29'	25 26 27 28 29	CL-S	25-29'; CLAYSTONE, dry, reddish brown-brown, fine grain, poorly graded, well sorted, abundant, well graded, no stain, no odor, high plasticity.	
D	N/A	N/A	N		30-34'	30 31 32 33 34	CL-S	30-34'; CLAYSTONE, fine grains, reddish brown, dry, poorly graded, moderate consolidation, well sorted, abundant silt, no stain, no odor, high plasticity	
D	N/A	N/A	N		35-39'	35 36 37 38 39	CL-S	35-39'; CLAYSTONE, dry, reddish brown-deep brown, fine grain, poorly graded, well sorted, abundant, silt, moderate consolidation, no stain, no odor, sub-angular quartz grains.	
D	N/A	N/A	N		40-42'	40 41 42	CL-S	35-39'; CLAYSTONE, dry, reddish brown-deep brown, fine grain, poorly graded, well sorted, abundant, silt, moderate consolidation, no stain, no odor, sub-angular quartz grains.	



 <p style="text-align: center;"><b>WSP USA</b> 508 West Stevens Street Carlsbad, New Mexico 88220</p>				BH or PH Name: BH01		Date: 03-30-2022			
				Site Name: Lotus Lateral Poly 8					
				RP or Incident Number: NAPP212850791					
				WSP Job Number: 31403665.001					
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>						Logged By: PB, MR		Method: Hollow Stem	
Lat/Long: 32.3634, -103.703442			Field Screening: N/A			Hole Diameter: 0.5		Total Depth: 57 Ft	
Comments: SAA; SAME AS ABOVE M-moist; D-dry; Y-yes; N-no									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	
M	N/A	N/A	N	BHO1	0-4'	0 1 2 3 4 5	SP-SM	0-4', SAND, Moist, dark brown, poorly graded, trace of caliche gravel, well sorted, no stain, no odor.	
D	N/A	N/A	N		5-9'	6 7 8 9 10 11	SP-SM	5-9', SAND, dry, dark brown-redish color, medium, to coarse grain trace of caliche gravel, well sorted, no odor, no stain.	
D	N/A	N/A	N		10-14'	12 13 14 15 16	CCHE	10-14', CALICHE, dry, light brown-tan, moderately graded, poorly sorted, abundant coarse-large sub-round sub-angular gravel, no stain, no odor.	
D	N/A	N/A	N		15-19'	17 18 19 20	SW	15-19'; SAND, dry, light brown-tan, medium to fine grain, some caliche gravel, moderately grade, poorly sorted, no stain, no odor.	
D	N/A	N/A	N		20-24'	21 22 23 24	CL-S	20-24'; CLAYSTONE, fine grains, redish brown, dry, poorly graded, moderately consolidation, well sorted, abundant silt, no stain, no odor, high plasticity	





# New Mexico Office of the State Engineer

## Water Right Summary



[get image list](#)


**WR File Number:** C 02739                      **Subbasin:** C                      **Cross Reference:** -  
**Primary Purpose:** STK    72-12-1 LIVESTOCK WATERING  
**Primary Status:**    EXP    EXPIRED  
**Total Acres:**    **Subfile:**                      -                      **Header:** -  
**Total Diversion:**    0    **Cause/Case:**    -  
**Owner:**    MILLS FAMILY PARTNERSHIP FLP  
**Contact:**    STACEY MILLS

### Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/		Acres	Diversion	Consumptive
			1	2		To				
 <a href="#">get images</a>	<a href="#">466443</a>	<a href="#">72121</a>	<a href="#">2000-10-13</a>	EXP	EXP	C 02739	T		3	

### Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	64Q16Q4Sec	Tws	Rng	X	Y	Other Location Desc
<a href="#">C 02739</a>			3	3	1	19 22S 32E	620234	3583042*	

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

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

4/20/22 10:18 AM

WATER RIGHT SUMMARY



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## National Water Information System: Web Interface

USGS Water Resources (Cooperator Access)

Data Category:  Geographic Area:

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

# USGS 321952103400801 23S.32E.03.311114

Available data for this site

### Well Site

#### DESCRIPTION:

Latitude 32°19'59.2", Longitude 103°40'12.6" NAD83  
 Lea County, New Mexico , Hydrologic Unit 13060011  
 Well depth: 630 feet  
 Land surface altitude: 3,648.00 feet above NGVD29.  
 Well completed in "Other aquifers" (N9999OTHER) national aquifer.  
 Well completed in "Santa Rosa Sandstone" (231SNRS) local aquifer

#### AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
<a href="#">Field groundwater-level measurements</a>	1976-12-09	2013-01-17	8
<a href="#">Revisions</a>	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center

Email questions about this site to [New Mexico Water Science Center Water-Data Inquiries](#)

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**Title: NWIS Site Information for USA: Site Inventory**

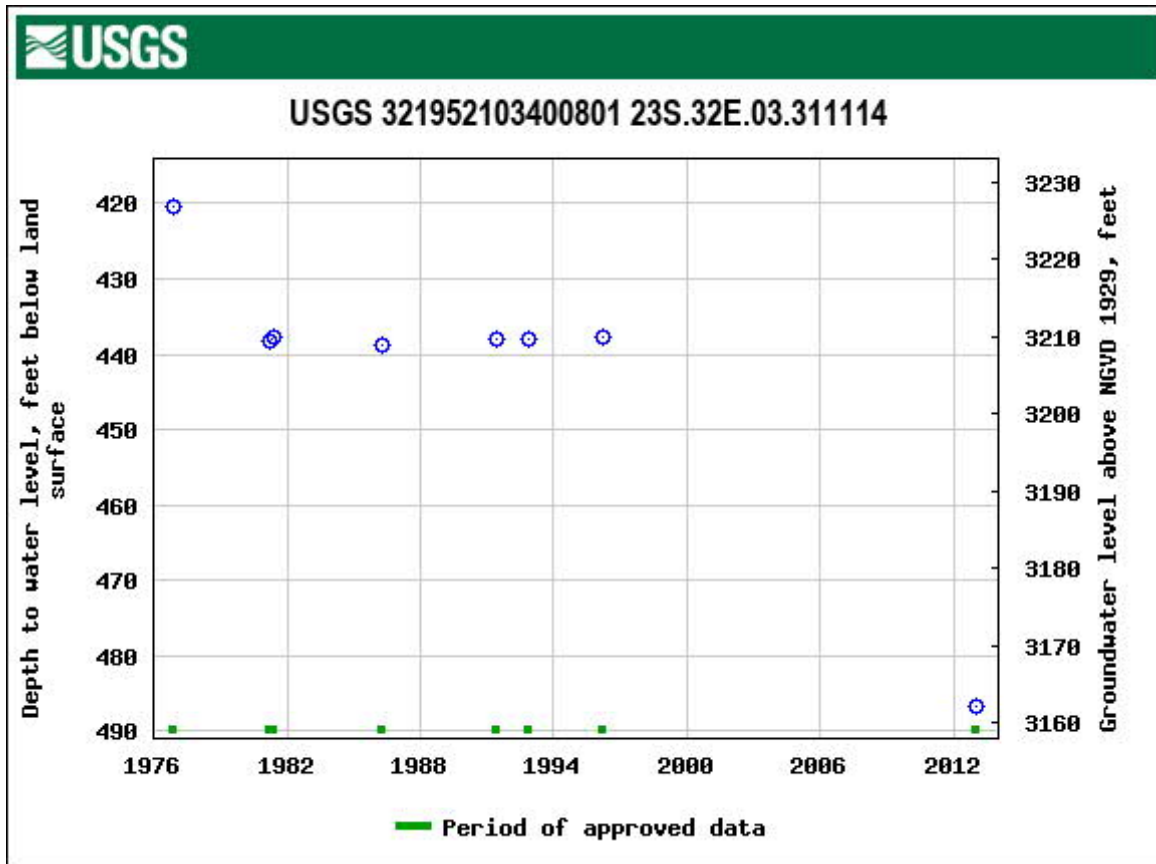
**URL: [https://waterdata.usgs.gov/nwis/inventory?agency\\_code=USGS&site\\_no=321952103400801](https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=321952103400801)**



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

Page Last Modified: 2022-04-20 12:19:49 EDT

0.28 0.27 caww01







PHOTOGRAPHIC LOG		
Lucid Energy Delaware	Lotus Lateral Poly 8" Lea County, New Mexico	NAPP2123850791




Photo No.	Date	
1	Sep 30, 2021	
Photo taken during delineation activities.		

Photo No.	Date	
2	April 14, 2022	
Photo taken during excavation activities.		





PHOTOGRAPHIC LOG		
Lucid Energy Delaware	Lotus Lateral Poly 8" Lea County, New Mexico	NAPP2123850791

<b>Photo No.</b> 3	<b>Date</b> April 14, 2022	
Photo taken during excavation activities.		

<b>Photo No.</b> 4	<b>Date</b> April 14, 2022	
Photo taken during excavation activities.		





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

April 21, 2022

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

RE: Lotus Lateral Poly 8 inch  
NAPP2123850791

OrderNo.: 2204758

Dear Michael Gant:

Hall Environmental Analysis Laboratory received 6 sample(s) on 4/16/2022 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 white background.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order **2204758**

Date Reported: **4/21/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Lucid Energy

**Client Sample ID:** FS01 @ 4'

**Project:** Lotus Lateral Poly 8 inch

**Collection Date:** 4/14/2022 11:05:00 AM

**Lab ID:** 2204758-001

**Matrix:** MEOH (SOIL) **Received Date:** 4/16/2022 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	84	10		mg/Kg	1	4/19/2022 12:18:05 AM
Motor Oil Range Organics (MRO)	57	50		mg/Kg	1	4/19/2022 12:18:05 AM
Surr: DNOP	94.6	51.1-141		%Rec	1	4/19/2022 12:18:05 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	4/16/2022 2:03:00 PM
Surr: BFB	103	37.7-212		%Rec	1	4/16/2022 2:03:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.015		mg/Kg	1	4/16/2022 2:03:00 PM
Toluene	ND	0.031		mg/Kg	1	4/16/2022 2:03:00 PM
Ethylbenzene	ND	0.031		mg/Kg	1	4/16/2022 2:03:00 PM
Xylenes, Total	ND	0.061		mg/Kg	1	4/16/2022 2:03:00 PM
Surr: 4-Bromofluorobenzene	82.5	70-130		%Rec	1	4/16/2022 2:03:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	2100	61		mg/Kg	20	4/18/2022 8:33:26 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 **2204758**

Date Reported: **4/21/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Lucid Energy

**Client Sample ID:** FS02 @ 4'

**Project:** Lotus Lateral Poly 8 inch

**Collection Date:** 4/14/2022 11:07:00 AM

**Lab ID:** 2204758-002

**Matrix:** MEOH (SOIL) **Received Date:** 4/16/2022 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	520	9.7		mg/Kg	1	4/19/2022 1:29:03 AM
Motor Oil Range Organics (MRO)	410	48		mg/Kg	1	4/19/2022 1:29:03 AM
Surr: DNOP	119	51.1-141		%Rec	1	4/19/2022 1:29:03 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	3.0		mg/Kg	1	4/16/2022 3:02:00 PM
Surr: BFB	98.6	37.7-212		%Rec	1	4/16/2022 3:02:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.015		mg/Kg	1	4/16/2022 3:02:00 PM
Toluene	ND	0.030		mg/Kg	1	4/16/2022 3:02:00 PM
Ethylbenzene	ND	0.030		mg/Kg	1	4/16/2022 3:02:00 PM
Xylenes, Total	ND	0.060		mg/Kg	1	4/16/2022 3:02:00 PM
Surr: 4-Bromofluorobenzene	80.1	70-130		%Rec	1	4/16/2022 3:02:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	940	60		mg/Kg	20	4/18/2022 8:45:51 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 **2204758**

Date Reported: **4/21/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Lucid Energy

**Client Sample ID:** FS03 @ 4'

**Project:** Lotus Lateral Poly 8 inch

**Collection Date:** 4/14/2022 1:40:00 PM

**Lab ID:** 2204758-003

**Matrix:** MEOH (SOIL) **Received Date:** 4/16/2022 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	40	9.4		mg/Kg	1	4/19/2022 1:52:44 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/19/2022 1:52:44 AM
Surr: DNOP	99.6	51.1-141		%Rec	1	4/19/2022 1:52:44 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	3.0		mg/Kg	1	4/16/2022 4:00:00 PM
Surr: BFB	98.8	37.7-212		%Rec	1	4/16/2022 4:00:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.015		mg/Kg	1	4/16/2022 4:00:00 PM
Toluene	ND	0.030		mg/Kg	1	4/16/2022 4:00:00 PM
Ethylbenzene	ND	0.030		mg/Kg	1	4/16/2022 4:00:00 PM
Xylenes, Total	ND	0.059		mg/Kg	1	4/16/2022 4:00:00 PM
Surr: 4-Bromofluorobenzene	81.4	70-130		%Rec	1	4/16/2022 4:00:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	320	60		mg/Kg	20	4/18/2022 8:58:15 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 **2204758**

Date Reported: **4/21/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Lucid Energy

**Client Sample ID:** SW01 @ 0-4'

**Project:** Lotus Lateral Poly 8 inch

**Collection Date:** 4/14/2022 11:10:00 AM

**Lab ID:** 2204758-004

**Matrix:** MEOH (SOIL) **Received Date:** 4/16/2022 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	31	9.8		mg/Kg	1	4/19/2022 2:16:32 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/19/2022 2:16:32 AM
Surr: DNOP	99.4	51.1-141		%Rec	1	4/19/2022 2:16:32 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	3.0		mg/Kg	1	4/16/2022 4:20:00 PM
Surr: BFB	97.7	37.7-212		%Rec	1	4/16/2022 4:20:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.015		mg/Kg	1	4/16/2022 4:20:00 PM
Toluene	ND	0.030		mg/Kg	1	4/16/2022 4:20:00 PM
Ethylbenzene	ND	0.030		mg/Kg	1	4/16/2022 4:20:00 PM
Xylenes, Total	ND	0.060		mg/Kg	1	4/16/2022 4:20:00 PM
Surr: 4-Bromofluorobenzene	82.3	70-130		%Rec	1	4/16/2022 4:20:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	600	60		mg/Kg	20	4/18/2022 9:10:39 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 **2204758**

Date Reported: **4/21/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Lucid Energy

**Client Sample ID:** SW02 @ 0-4'

**Project:** Lotus Lateral Poly 8 inch

**Collection Date:** 4/14/2022 1:42:00 PM

**Lab ID:** 2204758-005

**Matrix:** MEOH (SOIL) **Received Date:** 4/16/2022 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/19/2022 2:40:14 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/19/2022 2:40:14 AM
Surr: DNOP	93.1	51.1-141		%Rec	1	4/19/2022 2:40:14 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	3.0		mg/Kg	1	4/16/2022 4:39:00 PM
Surr: BFB	100	37.7-212		%Rec	1	4/16/2022 4:39:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.015		mg/Kg	1	4/16/2022 4:39:00 PM
Toluene	ND	0.030		mg/Kg	1	4/16/2022 4:39:00 PM
Ethylbenzene	ND	0.030		mg/Kg	1	4/16/2022 4:39:00 PM
Xylenes, Total	ND	0.060		mg/Kg	1	4/16/2022 4:39:00 PM
Surr: 4-Bromofluorobenzene	81.4	70-130		%Rec	1	4/16/2022 4:39:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	ND	60		mg/Kg	20	4/18/2022 9:23:04 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 **2204758**

Date Reported: **4/21/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Lucid Energy

**Client Sample ID:** SW03 @ 0-4'

**Project:** Lotus Lateral Poly 8 inch

**Collection Date:** 4/14/2022 1:45:00 PM

**Lab ID:** 2204758-006

**Matrix:** MEOH (SOIL) **Received Date:** 4/16/2022 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/19/2022 3:03:55 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/19/2022 3:03:55 AM
Surr: DNOP	84.7	51.1-141		%Rec	1	4/19/2022 3:03:55 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	4/16/2022 4:59:00 PM
Surr: BFB	99.5	37.7-212		%Rec	1	4/16/2022 4:59:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.015		mg/Kg	1	4/16/2022 4:59:00 PM
Toluene	ND	0.031		mg/Kg	1	4/16/2022 4:59:00 PM
Ethylbenzene	ND	0.031		mg/Kg	1	4/16/2022 4:59:00 PM
Xylenes, Total	ND	0.061		mg/Kg	1	4/16/2022 4:59:00 PM
Surr: 4-Bromofluorobenzene	84.0	70-130		%Rec	1	4/16/2022 4:59:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	250	59		mg/Kg	20	4/19/2022 1:22:50 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	

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2204758

21-Apr-22

**Client:** Lucid Energy  
**Project:** Lotus Lateral Poly 8 inch

Sample ID: <b>MB-66908</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>66908</b>	RunNo: <b>87343</b>								
Prep Date: <b>4/18/2022</b>	Analysis Date: <b>4/18/2022</b>	SeqNo: <b>3089279</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-66908</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>66908</b>	RunNo: <b>87343</b>								
Prep Date: <b>4/18/2022</b>	Analysis Date: <b>4/18/2022</b>	SeqNo: <b>3089280</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	93.5	90	110			

Sample ID: <b>MB-66928</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>66928</b>	RunNo: <b>87348</b>								
Prep Date: <b>4/19/2022</b>	Analysis Date: <b>4/19/2022</b>	SeqNo: <b>3089975</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-66928</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>66928</b>	RunNo: <b>87348</b>								
Prep Date: <b>4/19/2022</b>	Analysis Date: <b>4/19/2022</b>	SeqNo: <b>3089976</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	94.6	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 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#: 2204758

21-Apr-22

**Client:** Lucid Energy  
**Project:** Lotus Lateral Poly 8 inch

Sample ID: <b>MB-66907</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>66907</b>	RunNo: <b>87307</b>								
Prep Date: <b>4/18/2022</b>	Analysis Date: <b>4/18/2022</b>	SeqNo: <b>3088643</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	7.9		10.00		79.2	51.1	141			

Sample ID: <b>LCS-66907</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>66907</b>	RunNo: <b>87307</b>								
Prep Date: <b>4/18/2022</b>	Analysis Date: <b>4/18/2022</b>	SeqNo: <b>3088645</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	105	68.9	135			
Surr: DNOP	3.6		5.000		71.4	51.1	141			

Sample ID: <b>2204758-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>FS01 @ 4'</b>	Batch ID: <b>66907</b>	RunNo: <b>87307</b>								
Prep Date: <b>4/18/2022</b>	Analysis Date: <b>4/19/2022</b>	SeqNo: <b>3088646</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	130	9.1	45.75	84.32	91.1	36.1	154			
Surr: DNOP	4.4		4.575		95.3	51.1	141			

Sample ID: <b>2204758-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>FS01 @ 4'</b>	Batch ID: <b>66907</b>	RunNo: <b>87307</b>								
Prep Date: <b>4/18/2022</b>	Analysis Date: <b>4/19/2022</b>	SeqNo: <b>3088647</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	140	9.9	49.26	84.32	107	36.1	154	8.34	33.9	
Surr: DNOP	4.8		4.926		97.2	51.1	141	0	0	

Sample ID: <b>LCS-66872</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>66872</b>	RunNo: <b>87307</b>								
Prep Date: <b>4/15/2022</b>	Analysis Date: <b>4/18/2022</b>	SeqNo: <b>3089092</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.8		5.000		76.7	51.1	141			

Sample ID: <b>MB-66872</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>66872</b>	RunNo: <b>87307</b>								
Prep Date: <b>4/15/2022</b>	Analysis Date: <b>4/18/2022</b>	SeqNo: <b>3089182</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

**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#: 2204758

21-Apr-22

**Client:** Lucid Energy  
**Project:** Lotus Lateral Poly 8 inch

Sample ID: <b>MB-66872</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>66872</b>	RunNo: <b>87307</b>								
Prep Date: <b>4/15/2022</b>	Analysis Date: <b>4/18/2022</b>	SeqNo: <b>3089182</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.9		10.00		79.1	51.1	141			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
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- 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#: 2204758

21-Apr-22

**Client:** Lucid Energy  
**Project:** Lotus Lateral Poly 8 inch

Sample ID: <b>2.5ug gro lcs</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>B87296</b>		RunNo: <b>87296</b>							
Prep Date:	Analysis Date: <b>4/16/2022</b>		SeqNo: <b>3086990</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	116	72.3	137			
Surr: BFB	2300		1000		225	37.7	212			S

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>B87296</b>		RunNo: <b>87296</b>							
Prep Date:	Analysis Date: <b>4/16/2022</b>		SeqNo: <b>3086991</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		108	37.7	212			

Sample ID: <b>2204758-001ams</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>FS01 @ 4'</b>	Batch ID: <b>B87296</b>		RunNo: <b>87296</b>							
Prep Date:	Analysis Date: <b>4/16/2022</b>		SeqNo: <b>3086993</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	18	3.1	15.27	0	117	70	130			
Surr: BFB	1400		610.9		221	37.7	212			S

Sample ID: <b>2204758-001amsd</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>FS01 @ 4'</b>	Batch ID: <b>B87296</b>		RunNo: <b>87296</b>							
Prep Date:	Analysis Date: <b>4/16/2022</b>		SeqNo: <b>3086994</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	18	3.1	15.27	0	118	70	130	0.579	20	
Surr: BFB	1300		610.9		219	37.7	212	0	0	S

**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#: 2204758

21-Apr-22

**Client:** Lucid Energy  
**Project:** Lotus Lateral Poly 8 inch

Sample ID: <b>100ng btex lcs</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>C87296</b>	RunNo: <b>87296</b>								
Prep Date:	Analysis Date: <b>4/16/2022</b>	SeqNo: <b>3087000</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.2	80	120			
Toluene	0.88	0.050	1.000	0	87.9	80	120			
Ethylbenzene	0.89	0.050	1.000	0	88.8	80	120			
Xylenes, Total	2.7	0.10	3.000	0	88.8	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		86.8	70	130			

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>C87296</b>	RunNo: <b>87296</b>								
Prep Date:	Analysis Date: <b>4/16/2022</b>	SeqNo: <b>3087001</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	0.86		1.000		86.0	70	130			

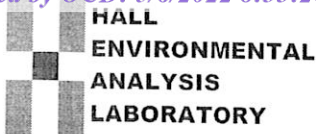
Sample ID: <b>2204758-002ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>FS02 @ 4'</b>	Batch ID: <b>C87296</b>	RunNo: <b>87296</b>								
Prep Date:	Analysis Date: <b>4/16/2022</b>	SeqNo: <b>3087004</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.53	0.015	0.5963	0	89.2	68.8	120			
Toluene	0.55	0.030	0.5963	0	91.5	73.6	124			
Ethylbenzene	0.55	0.030	0.5963	0	92.5	72.7	129			
Xylenes, Total	1.6	0.060	1.789	0	92.0	75.7	126			
Surr: 4-Bromofluorobenzene	0.48		0.5963		81.1	70	130			

Sample ID: <b>2204758-002amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>FS02 @ 4'</b>	Batch ID: <b>C87296</b>	RunNo: <b>87296</b>								
Prep Date:	Analysis Date: <b>4/16/2022</b>	SeqNo: <b>3087005</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.50	0.015	0.5963	0	83.7	68.8	120	6.40	20	
Toluene	0.51	0.030	0.5963	0	86.3	73.6	124	5.88	20	
Ethylbenzene	0.53	0.030	0.5963	0	88.3	72.7	129	4.68	20	
Xylenes, Total	1.6	0.060	1.789	0	88.0	75.7	126	4.36	20	
Surr: 4-Bromofluorobenzene	0.45		0.5963		75.3	70	130	0	0	

**Qualifiers:**

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- 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: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Lucid Energy Work Order Number: 2204758 RcptNo: 1

Received By: Sean Livingston 4/16/2022 9:50:00 AM

Signature of Sean Livingston

Completed By: Sean Livingston 4/16/2022 10:09:07 AM

Signature of Sean Livingston

Reviewed By: See 4/16/22

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [ ] Not Present [ ]
2. How was the sample delivered? Courier

Log In

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

# of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: See 4/16/22

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [ ] No [ ] NA [checked]

Person Notified: Date:
By Whom: Via: [ ] eMail [ ] Phone [ ] Fax [ ] In Person
Regarding:
Client Instructions:

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 5.9, Good, [ ], [ ], [ ]





**From:** [Hernandez, Joseph](#)  
**To:** [ocd.enviro@state.nm.us](mailto:ocd.enviro@state.nm.us)  
**Cc:** [Michael Gant](#); [Moir, Dan](#)  
**Subject:** Lucid Energy Delaware - Extension Request (Lotus Lateral Poly 8")  
**Date:** Sunday, November 21, 2021 10:03:48 AM  
**Attachments:** [image001.png](#)

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All,

Lucid Energy Delaware (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 Lotus Lateral Poly 8". A natural gas release was discovered on August 24, 2021 and was assigned Incident Number nAPP2123850791. Initial response included removal of contaminated material and further site assessment was completed on October 19, 2021. To date, approximately 20 cubic yards of impacted soil has been excavated. At this time, Lucid is evaluating remedial options to address remaining impacts in an effort to ensure protection of public health and the environment, while remaining compliant with Lucid's safety guidelines. 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 **February 20, 2022**.

Thank you,

**Joseph S. Hernandez**  
Associate Consultant, Geologist



M+ 1 281-702-2329

WSP USA

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

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**From:** [Hernandez, Joseph](#)  
**To:** [ocd.enviro@state.nm.us](mailto:ocd.enviro@state.nm.us); [Hamlet, Robert, EMNRD](#); [Velez, Nelson, EMNRD](#); [Bratcher, Mike, EMNRD](#); [Jennifer.Nobui@state.nm.us](mailto:Jennifer.Nobui@state.nm.us)  
**Cc:** [Michael Gant](#)  
**Subject:** Lucid Energy Group - Extension Request (Lotus Lateral Poly 8")  
**Date:** Monday, February 14, 2022 12:01:17 PM  
**Attachments:** [image003.png](#)  
[Lucid Energy Delaware - Extension Request \(Lotus Lateral Poly 8\).msg](#)

---

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 Lotus Lateral Poly 8". A natural gas release was discovered on August 24, 2021 and was assigned Incident Number nAPP2123850791. Initial response included removal of contaminated material and further site assessment was completed on October 19, 2021. To date, approximately 20 cubic yards of impacted soil has been excavated. WSP submitted an extension request to NMOCD on November 21, 2021 (attached) and received BLM access approval for soil disturbance and depth to water soil boring at the site on January 13, 2021. To provide enough time for further site assessment, drilling coordination conduct subsurface drilling activities to supplement the depth to water determination, and the completion of a remediation work plan, deferral or closure report, Lucid requests an extension of the deadline to **May 21, 2022**.



**Joseph S. Hernandez**  
Consultant, Geologist

M+ 1 281-702-2329

WSP USA Inc.  
Texas and New Mexico

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

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State of New Mexico  
Oil Conservation Division

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: *MGant* Date: 5/6/2022  
 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: *Jennifer Nobui* Date: 05/25/2022  
 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 104825

**CONDITIONS**

Operator: LUCID ENERGY DELAWARE, LLC 201 S. Fourth Street Artesia, NM 88210	OGRID: 372422
	Action Number: 104825
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	5/25/2022