

April 20, 2020

Mr. Mike Bratcher New Mexico Oil Conservation Division 811 South First Street Artesia, New Mexico 88210

RE: **Closure and Variance Request** Mean Green 10" Line Incident Number nRM2002943377 Lea County, New Mexico

Dear Mr. Bratcher:

Lucid Energy Group (Lucid), presents the following Closure and Variance Request detailing site assessment and soil sampling activities at the Mean Green 10" Line (Site) in Unit I, Section 23, Township 26 South, Range 34 East, in Eddy County, New Mexico under surface ownership of the Bureau of Land Management (BLM) (Figure 1). The purpose of the site assessment and soil sampling activities was to confirm the presence or absence of impacts to soil associated with a release of produced water at the Site and subsequent excavation of impacted soil. Based on field observations, field screening, and laboratory analytical results from soil sampling activities, Lucid is submitting this Closure and Variance Request. Lucid requests no further action that may contribute to compromising the safety of field personnel and integrity of sensitive subsurface pipelines during active operations. Listed below is a brief summation of the Site details in Table 1.

Table 1: Site and Release information			
Name	Mean Green 10"		
Company	Lucid Energy Delaware		
Incident Number	nRM2002943377		
Location	32.025451°, -103.435522°		
Estimated Date of Release	12/2/2019		
Date reported to NMOCD	12/16/2019		
Landowner	Bureau of Land Management		
Reported to	NMOCD District II and BLM		
Source of Release	Pipeline		
Released Material	Produced Water		
Released Volume	~25 bbls		
Recovered Volume	~5 bbls		
Net Release	~20 bbls		



Nearest Waterway	Intermittent stream 3.3 miles east
Depth to Groundwater	Estimated to be >100'
Nearest Domestic Water source	Greater than 1000'
Lucid Activity Dates	12/16/19, 1/13/20, 2/26/20, 3/11/20

1.0 RELEASE BACKGROUND

On December 2, 2019, a pumper noticed water spraying from a produced water line riser system and notified Lucid field personnel. It was later discovered that a saddle clamp on the produced water poly line had failed and released produced water to the surrounding area. Approximately 25 barrels (Bbls) of produced water were released to the surrounding area. Lucid attentively reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141) on December 16, 2019, which was received and assigned Incident Number NRM1935234977 on January 29, 2020. The Form C-141 is provided as Appendix A.

2.0 SITE CHARACTERIZATION

Lucid 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 greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data attained from the New Mexico Office of the State Engineer (NMOSE). The United States Geological Survey groundwater database showed no wells within a reasonable proximity to the Site. The closest permitted groundwater well with depth to groundwater data is, located approximately 5 miles northwest of the Site. The groundwater well has a reported depth to groundwater of approximately 200 feet bgs and a total depth of approximately 250 feet bgs. The Site is greater than 300 feet from any continuously flowing or significant watercourse. 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, or church. 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 located greater than 300 feet from a wetland. The Site is located in a low-potential karst area. The surface geology of the Site is comprised mostly of the Pyote and Maljamar series sand. The Pyote series is described as a yellowish-red, finegrained, deep, well drained, moderately permeable soil formed in sandy and loamy sediments. The Maljamar series is described as a yellowish-red, fine-grained, well drained moderately sandy to sandy soil somewhat reworked by wind with a deep petrocalcic horizon typically occurring around 4 to 5 feet bgs. During excavation of the Site the Pyote series was encountered throughout at 0 to 5 feet bgs. The area immediately around the riser system was excavated down to approximately 6 feet bgs where an unconsolidated petrocalcic horizon, caliche, was identified. The nearest identified groundwater wells and potential receptors identified during site characterization are displayed in Figure 1. NMOSE groundwater data for surrounding wells is presented in Appendix C.



3.0 **CLOSURE CRITERIA**

In lieu of attaining a definitive groundwater depth via listed methods and lacking current groundwater information within reasonable proximity, Lucid remediated the Site according to the strictest closure criteria relevant to groundwater depth of <50 feet bgs, listed in NMAC 19.15.29 Table 1 Closure Criteria (Closure Criteria). Based on the results of the site characterization, the following 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

4.0 **INITIAL RESPONSE**

During the response to the release, Lucid personnel contracted a vacuum truck to remove any standing liquids from the area. Approximately 5 bbls of liquids were removed from the Site. Due to surface geology and topography of sand dunes the produced water flowed directly east of the riser system. Produced water had also sprayed from the failed clamp to the south of the riser system. The subject pipeline was repaired, and surface samples were collected by a Lucid EHSR technician. The locations of samples are presented on Figure 2 and laboratory analytical results are summarized in Table 2. The complete laboratory analytical report is included in Appendix D.

5.0 **DELINEATION SOIL SAMPLING ACTIVITIES**

On December 2, Lucid personnel conducted site investigative activities to evaluate the release extent and current conditions. Surface staining throughout the release was visually observed while heavier staining and saturation was observed in the immediate proximity of the riser system. No surface staining was observed in the overspray area south of the riser system. Photographic documentation was conducted during the Site visit and a Photographic Log is included in Appendix B.

Lucid personnel conducted delineation activities to define the horizontal extent of the impacted area. Utilizing a hand trowel and/or shovel, five surface samples (HA-1 through HA-5) were collected within and around the release footprint to verify the presence or absence of soil impacts. Samples were collected in the saturated soils to the east and the overspray area to the south. Surface soil samples were collected at approximately 8-12 inches bgs. Sample HA-3 was collected nearest to the release point at a depth of approximately 30-36 inches bgs. More thorough vertical delineation of the Site began during remediation activities utilizing a backhoe. An additional 2 delineation soil samples (HA-6 and HA-7) were collected at approximately 20-24 inches bgs later during remediation to verify excavation activities beyond the initial delineation area. Sampled depths are approximations due to the composition and nature of the fine-grained sands.



Field screening was conducted for chloride using Hach® chloride QuanTab® test strips. The soil samples were placed directly into a pre-cleaned glass jar, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were shipped at or below 4 degrees Celsius (°C), under strict chain-of-custody (COC) procedures, to Hall in Albuquerque, New Mexico, for analysis of BTEX following United States EPA Method 8021B; TPH-GRO, TPH-DRO, and TPH-MRO following EPA Method 8015M/D; and/or chloride following EPA Method 300.0. The complete laboratory analytical report is included in Appendix D. Additionally, photographic documentation from delineation activities is also included in Appendix B.

6.0 REMEDIATION ACTIVITIES

On December 16, 2019, Lucid personnel and Reno Equipment Inc. (Reno) began remedial excavation activities at the Site. In lieu of attaining a definitive groundwater depth via listed methods and lacking current groundwater information nearby, Lucid remediated the Site in conjunction with the strictest closure criteria relevant to groundwater depth of <50 feet bgs, listed in NMAC 19.15.29 Table 1. The closest groundwater wells are approximately 5 miles to the west and east of the Site, groundwater well data from NMOSE are listed in Appendix C.

Beginning the week of December 16-20, both the east and south sections of the release area were excavated to 2 feet bgs and composite soil samples were collected. During January 2020, the east section of the excavation area was advanced to a depth of 4 feet bgs and composite samples were again collected shown in Figure 2. Analytical results reported chloride levels above 600 ppm for samples B-6-C and B-8-C, collected on 12/30/2019 and 1/14/2020, respectively. Later in January, the east section was excavated to a depth of approximately 5 feet bgs and the south section was excavated to a total depth of approximately 3 feet bgs. Composite samples B-9-C were collected for the east section at approximately 5 feet bgs, however an additional sample from the south section was not collected at 3 feet bgs after the excavation had been advanced.

Due to operational restrictions and safety concerns regarding mechanical excavation near the high-pressure natural gas line and produced water line the impacted material immediately surrounding the riser system was removed by hand digging to a depth of approximately 6 feet bgs. Delineation sample results showed the sample HA-5-3' contained 5100 ppm chloride, due to the immediate proximity of the release point on the pipeline. The elevated concentrations and vertical migration of chlorides necessitate the composite soil samples B-8-C, B-10-C, and B-11-C collected in this area at 4, 5, and 6 feet bgs, respectively. Sample B-11-C results contained <60 ppm chlorides. The eastern most pipeline of the riser system is a high-pressure natural gas line and a small area of soil immediately surrounding the concrete footings measuring approximately 6x4x6 feet was left in place, seen in Figure 2. Composite sidewall samples SW-10-C and SW-8-C confirmed that the material left in place was unimpacted by chloride, with a concentration below detection limits, <60 ppm chlorides. During hand digging of the soil near the riser system, wooden supports were used underneath the pipelines where allowable. Sampled and



excavation depths are approximations due to the composition and nature of the fine-grained sands. On 3/31/2020, the Site was backfilled with locally sourced clean fill material.

A total of twenty-three 5-point composite soil samples were collected throughout the excavation. Composite soil samples were collected at approximately 50' lateral intervals encompassing ≤200 yd² of soil. Sidewall composite soil samples from the east section of the excavation were collected at depths between 2 and 5 feet bgs. Sidewall composite soil samples from the south section of the excavation were collected at depths between 1 and 3 feet bgs. Field screening was conducted for chloride using Hach® chloride QuanTab® test strips. The soil samples were placed directly into a pre-cleaned glass jar, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were shipped at or below 4° C, under strict COC procedures, to Hall, for analysis of chloride following EPA Method 300.0. The complete laboratory analytical report is included in Appendix D. Additionally, photographic documentation from remediation activities is also included in Appendix B.

7.0 **ANALYTICAL**

Excluding sample B-5-C, all release area boundary sample locations analyzed for chloride concentrations yielded concentrations below the Closure Criteria. All other delineation grab samples indicated BTEX, TPH-GRO, TPH-DRO, and Total TPH concentrations below the applicable Closure Criteria. Hydrocarbon and chloride impacts have been delineated vertically and laterally. All confirmatory composite samples collected from the excavation sidewalls and bottom indicate that chloride impacts have been successfully remediated to below the Closure Criteria. Soil sample analytical results are reported in Table 2. The complete laboratory analytical report is included in Appendix D.

8.0 VARIANCE REQUEST

Lucid seeks OCD approval for qualifying B-5-C as a fully vertically delineated sample due to contiguity to the chloride Closure Criteria. The exceeding 10 mg/kg is equally protective of public health and environment based on the depth of the identified concentration and lack of open pathways to nearby receptors. The depth of the identified concentration prohibits a complete pathway to any surface receptors, including surface water, wildlife, humans, and vegetation. Chloride is not toxic to humans or wildlife and is generally regulated for protection of vegetation and groundwater quality. The sample was collected from 3 feet bgs, though an additional sample was not collected, the excavation depth in the area of sample B-5-C was approximately 4 feet bgs after hand digging near the pipeline riser system and wooden supports were removed. Groundwater is estimated to be greater than 100 feet bgs and the exceeding 10 mg/kg is unlikely to migrate vertically to such a depth as to degrade groundwater. As such, Lucid requests approval to consider the chloride identified as 610 mg/kg at 3 feet bgs in B-5-C as vertically and laterally delineated.



9.0 **CLOSURE REQUEST**

Based on the analytical data indicating hydrocarbon and chloride impacts are delineated and the remediation of impacted material, Lucid respectfully requests closure of the Site and no further action associated with Incident Number nRM2002943377. Lucid will periodically monitor any altered Site configurations that may lead to the permanent removal of sensitive subsurface pipelines located within the subject area. Lucid will commence corrective action to address reseeding the Site closer to the monsoon season for more effective revegetation. If you have any questions or comments, please do not hesitate to contact Mr. Michael Gant at 314-330-7876.

Sincerely,

LUCID ENERGY GROUP

Environmental Coordinator

cc: Jim Amos, BLM

> Robert Hamlet, NMOCD Victoria Venegas, NMOCD

Appendices:

Figure 1 Site Receptor Map

Figure 2 **Delineation Soil Sample Locations**

Table 2 Soil Analytical Results

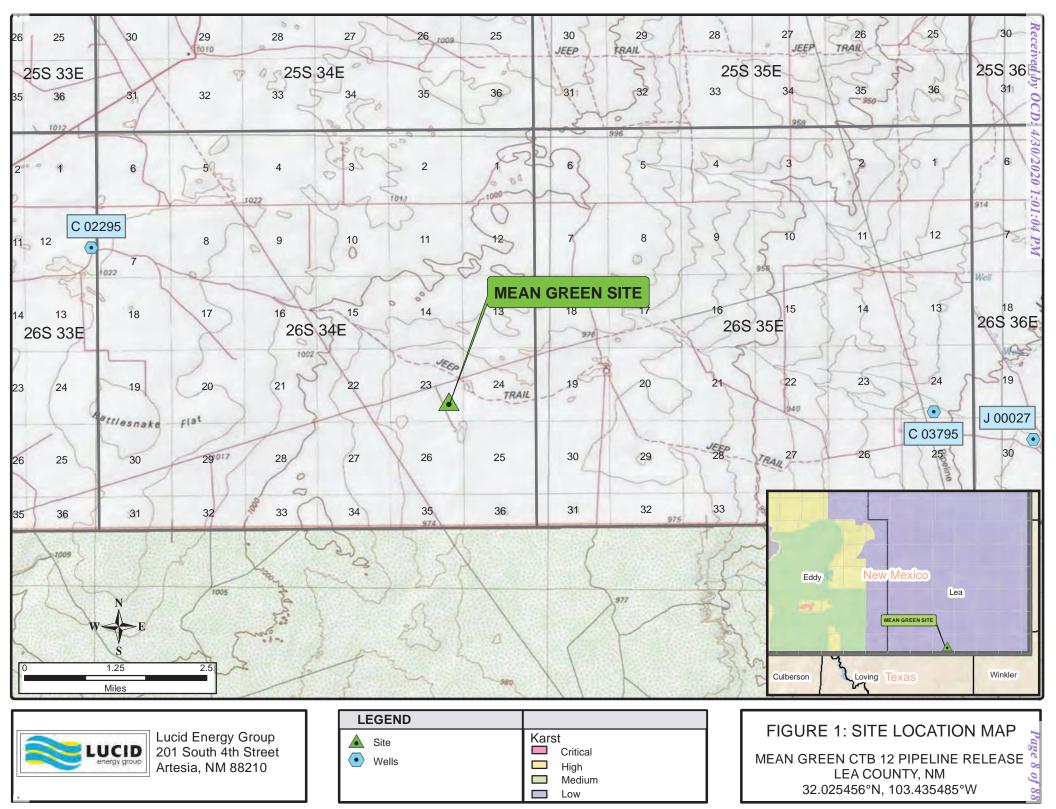
Appendix A Form C-141

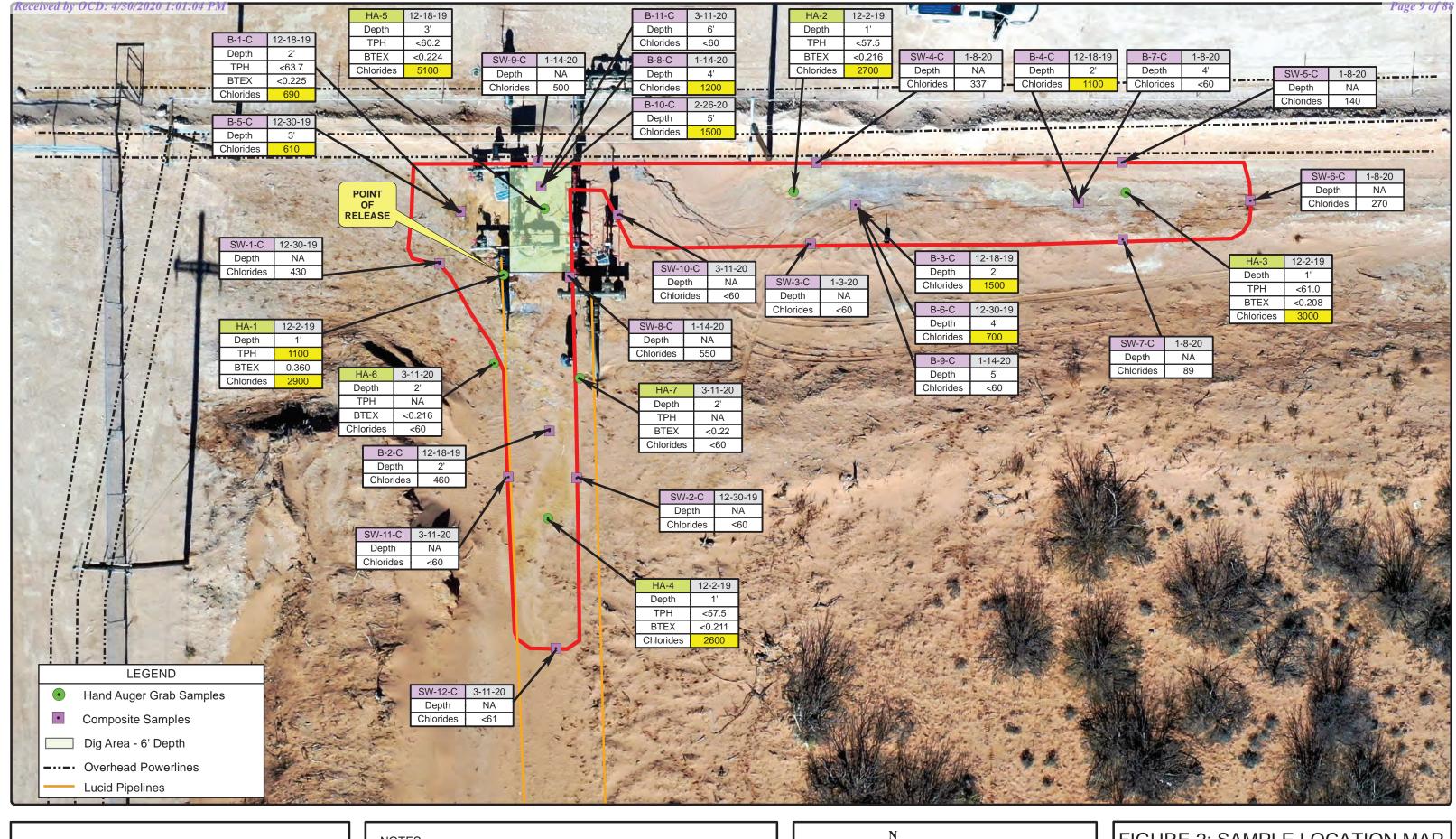
Appendix B Photographic Log

NMOSE Groundwater Data Appendix C **Laboratory Analytical Reports** Appendix D



FIGURES







Lucid Energy Group 201 South 4th Street Artesia, NM 88210

NOTES:

- 1. Analytical Values are Given in mg/Kg (ppm).
- 2. Analytical Values in Yellow Shading Exceed NMED RRAL's.

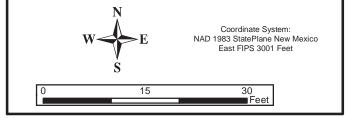


FIGURE 2: SAMPLE LOCATION MAP

MEAN GREEN CTB 10" LINE RELEASE LEA COUNTY, NM 32.025456°N, 103.435485°W



TABLES



Table 2 Soil Sample Analytical Results Mean Green CTB Lea County, NM

Sample ID	Depth (feet)	Date	Benzene	Toluene	Ethyl-benzene	Xylenes	BTEX	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Chlorides
HA-1	1'	12/2/2019	<0.024	<0.049	0.070	0.290	0.360	21	1100	380	1501	2900
HA-2	1'	12/2/2019	< 0.024	<0.048	<0.048	<0.096	<0.216	<4.8	<8.7	<44	<57.5	2700
HA-3	1'	12/2/2019	<0.023	<0.046	<0.046	<0.093	<0.208	<4.6	<9.4	<47	<61.0	3000
HA-4	1'	12/2/2019	<0.023	<0.047	< 0.047	<0.094	<0.211	<4.7	<8.8	<44	<57.5	2600
HA-5	3'	12/18/2019	< 0.025	< 0.050	< 0.050	<0.099	<0.224	<5.0	<9.2	<46	<60.2	5100
B-1-C	2'	12/18/2019	< 0.025	< 0.050	< 0.050	<0.100	< 0.225	<5.0	<9.7	<49	<63.7	690
B-2-C	2'	12/18/2019	NA	NA	NA	NA	NA	NA	NA	NA	NA	460
B-3-C	2'	12/18/2019	NA	NA	NA	NA	NA	NA	NA	NA	NA	1500
B-4-C	2'	12/18/2019	NA	NA	NA	NA	NA	NA	NA	NA	NA	1100
B-5-C	3'	1/3/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	610
B-6-C	4'	1/3/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	700
SW-1-C	NA	1/3/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	430
SW-2-C	NA	1/3/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60
SW-3-C	NA	1/3/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60
SW-4-C	NA	1/8/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	337
SW-5-C	NA	1/8/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	140
SW-6-C	NA	1/8/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	270
SW-7-C	NA	1/8/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	89
B-7-C	4'	1/8/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60
B-8-C	4'	1/14/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	1200
B-9-C	5'	1/14/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60
SW-8-C	NA	1/14/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	550
SW-9-C	NA	1/14/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	500
B-10-C	5'	2/26/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	1500
B-11-C	6'	3/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60
SW-10-C	NA	3/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60
SW-11-C	NA	3/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	<60
SW-12-C	NA	3/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	<61
HA-6	2'	3/11/2020	<0.024	<0.047	< 0.047	<0.098	<0.216	NA	NA	NA	NA	<60
HA-7	2'	3/11/2020	<0.024	<0.049	<0.049	<0.098	<0.22	NA	NA	NA	NA	<60
NMOCD T	able 1 Closure Lir	mits	10		Total E	BTEX: 50			Total	TPH: 100		600

Notes:

All sample results are in milligrams per kilogram

NMOCD = New Mexico Oil Conservation Division

Table 1 Closure Limits = In accordance with 19.15.29 Release Rule

NA = Not Analyzed
BTEX = Benzene, Toluene, Ethylbenzene, Xylenes
TPH = Total Petroleum Hydrocarbons
GRO = Gasoline Range Organics
DRO = Diesel Range Organics
MRO = Motor Oil Range Organics

Exceeds NMOCD limit



Appendix A

Form C-141

Received by OCD: 12/17/2019 10:28:20 AM

the surrounding area.

Received by OCD: 4/30/2020 1:01:04 PM

District I
1625 N. French Dr., Hobbs, NM 88240
District II
211 S. French Dr. NA 88240 District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Pio Prozes Road, Artes, NM 8741 1000 Rio Brazos Road, Aztec, NM 87410 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

		11051	POHSIDI	1 110	
Responsible Party L	ucid Energy Delaw	are, LLC.	C	OGRID	
Contact Name Mich			C	Contact Telephone 3143307876	
Contact email MGant@lucid-energy.com				Incident # (assigned by OCD)	
Contact mailing add	ress 201 South Fou	rth Street Artes	sia, NM 8	88210	
		Location	of Rel	lease Source	
Latitude 32.025451° Longitude				ongitude -103.435522°	
		(NAD 83 in de	ecimal degree	res to 5 decimal places)	
Site Name Mean Gr	een 10"		S	Site Type Produced Water poly line	
Date Release Discovered 12/2/19				API# (if applicable)	
			T		
Unit Letter Secti	1		Range County		
I 23	26S	34E	Lea		
Surface Owner: S	ate 🗸 Federal 🗌 T	ribal Private (Name: Bu	ureau of Land Management	
_					
		Nature and	d Volui	me of Release	
	nterial(s) Released (Select a	ll that apply and attach	h calculations	s or specific justification for the volumes provided below)	
Crude Oil	Volume Release	ed (bbls)		Volume Recovered (bbls)	
✓ Produced Water Volume Released (bbls) approx. 15 bbls			Volume Recovered (bbls)		
Is the concentration of dissolved chloride in					
produced water >10,000 mg/l? Condensate Volume Released (bbls)			Volume Recovered (bbls)		
Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)		
Natural Gas Volume Released (Nici) Other (describe) Volume/Weight Released (provide units)			Volume/Weight Recovered (provide units)		
Uniter (describe) volume/ weight Released (provide units)			volume, weight recovered (provide units)		
Cause of Release					
	on on the noty lin	o of the produ	icod wa	iter riser system failed releasing produced water to	

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Page 2

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7.81 / N/MAC? Yes No If YES, for what reason(s) does the responsible party consider this a major release?			11951101112
Initial Response The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury The source of the release has been stopped. The impacted area has been secured to protect human health and the environment. Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. All free liquids and recoverable materials have been removed and managed appropriately. If all the actions described above have not been undertaken, explain why: Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remedia has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occ within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. Thereby 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 endar 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 he aided to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. It addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local lar and/or regulations. Printed Name: Michael Gant Title: Environmental Coordinator Date: 12/17/19	release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the re	esponsible party consider this a major release?
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury The source of the release has been stopped. The impacted area has been secured to protect human health and the environment. Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. All free liquids and recoverable materials have been removed and managed appropriately. If all the actions described above have not been undertaken, explain why: Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remedians begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occ within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. Thereby 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 endar 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 he failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. I addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local lar and/or regulations. Printed Name: Michael Gant Title: Environmental Coordinator	If YES, was immediate n	otice given to the OCD? By whom? T	o whom? When and by what means (phone, email, etc)?
The source of the release has been stopped. The impacted area has been secured to protect human health and the environment. Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. All free liquids and recoverable materials have been removed and managed appropriately. If all the actions described above have not been undertaken, explain why: Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remedian has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurring in lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. Thereby 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 endarpublic health or the environment. The acceptance of a C-141 report does not relieve the operator of liability should their operations he failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. I addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local lat and/or regulations. Printed Name: Michael Gant Title: Environmental Coordinator Date: 12/17/19		Initial	Response
The impacted area has been secured to protect human health and the environment. Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. All free liquids and recoverable materials have been removed and managed appropriately. If all the actions described above have not been undertaken, explain why: Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remedihas begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occ within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. Thereby 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 endar 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 he failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health of the environment. It addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local lar and/or regulations. Printed Name: Michael Gant Title: Environmental Coordinator Date: 12/17/19	The responsible	party must undertake the following actions imme	diately unless they could create a safety hazard that would result in injury
The impacted area has been secured to protect human health and the environment. Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. All free liquids and recoverable materials have been removed and managed appropriately. If all the actions described above have not been undertaken, explain why: Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remedian has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurs within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. Thereby 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 endar 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 he failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. It addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local lar and/or regulations. Printed Name: Michael Gant Title: Environmental Coordinator Date: 12/17/19	☐ The source of the rele	ease has been stopped.	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. All free liquids and recoverable materials have been removed and managed appropriately. If all the actions described above have not been undertaken, explain why: Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remedihas begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occ within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endar 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 had failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. I addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local land/or regulations. Printed Name: Michael Gant Title: Environmental Coordinator Date: 12/17/19		A Description of the Control of the	and the environment.
All free liquids and recoverable materials have been removed and managed appropriately. If all the actions described above have not been undertaken, explain why: Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remedihas begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occ within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. If 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 endar 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 he failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. I addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local lar and/or regulations. Printed Name: Michael Gant Title: Environmental Coordinator Date: 12/17/19			
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediates begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurring in a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. If 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 endar 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 healted to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. If addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local lar and/or regulations. Printed Name: Michael Gant Title: Environmental Coordinator Date: 12/17/19			
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 endar 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 he failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. It addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local law and/or regulations. Printed Name: Michael Gant Title: Environmental Coordinator Date: 12/17/19	has begun, please attach	a narrative of actions to date. If remed	dial efforts have been successfully completed or if the release occurred
Signature:	I hereby certify that the info regulations all operators are public health or the environs failed to adequately investig addition, OCD acceptance o	rmation given above is true and complete to required to report and/or file certain release ment. The acceptance of a C-141 report by tate and remediate contamination that pose a	the best of my knowledge and understand that pursuant to OCD rules and notifications and perform corrective actions for releases which may endanger the OCD does not relieve the operator of liability should their operations have a threat to groundwater, surface water, human health or the environment. In
Date.	Printed Name: Michae	Gant	Title: Environmental Coordinator
email: MGant@lucid-energy.com Telephone: 3143307876	Signature:	aul	Date: 12/17/19
	email: MGant@lucid	-energy.com	Telephone: 3143307876
OCD Only	OCD Only		
Received by: Date:	Received by:		Date:

(ft bgs)

Form C-141 Page 3 State of New Mexico
Oil Conservation Division

What is the shallowest depth to groundwater beneath the area affected by the release?

Incident ID	NRM2002943377
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

Did this release impact groundwater or surface water?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☑ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☑ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ve contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics. Characterization Report Checklist: Each of the following items must be included in the report.	rtical extents of soil
 ✓ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring we ✓ Field data 	lls.
Data table of soil contaminant concentration data	
Depth to water determination Determination of vector sources and significant vectors are significant vectors and significant vectors are significant vectors.	
 ✓ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release ✓ Boring or excavation logs 	
Photographs including date and GIS information	
Y I notographs metading date and Cris information	
✓ Topographic/Aerial maps ✓ Laboratory data including chain of custody	

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

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Oil Conservation Division

State of New Mexico

Incident ID	NRM2002943377
District RP	
Facility ID	
Application ID	

complete to the best of my knowledge and understand that pursuant to OCD rules and tain release notifications and perform corrective actions for releases which may endanger report by the OCD does not relieve the operator of liability should their operations have that pose a threat to groundwater, surface water, human health or the environment. In the operator of responsibility for compliance with any other federal, state, or local laws
Title: Environmental Coordinator
Date: 4/28/2020
Telephone: 3143307876
Date: 04/30/2020

Form C-141 Page 5

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	be included in the plan.							
☑ Detailed description of proposed remediation technique								
Scaled sitemap with GPS coordinates showing delineation points								
✓ Estimated volume of material to be remediated ✓ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC								
Proposed schedule for remediation (note if remediation plan ting								
Deferral Requests Only: Each of the following items must be co	onfirmed as part of any request for deferral of remediation.							
Contamination must be in areas immediately under or around p deconstruction.	production equipment where remediation could cause a major facility							
Extents of contamination must be fully delineated.								
Contamination does not cause an imminent risk to human heal	th, the environment, or groundwater.							
rules and regulations all operators are required to report and/or file	acceptance of a C-141 report does not relieve the operator of							
Printed Name: Michael Gant	Title: Environmental Coordinator							
Signature:	Date: 4/28/2020							
email: MGant@lucid-energy.com	Telephone: 3143307876							
OCD Only								
Received by:								
☐ Approved	f Approval							
Signature:	Date:							

Form C-141

State of New Mexico
Oil Conservation Division

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Incident ID	NRM2002943377
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	n 19.15.29.11 NMAC
Photographs of the remediated site prior to backfirmust be notified 2 days prior to liner inspection)	Il or photos of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appro	opriate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
may endanger public health or the environment. The acc should their operations have failed to adequately investig human health or the environment. In addition, OCD acc compliance with any other federal, state, or local laws ar restore, reclaim, and re-vegetate the impacted surface are	and complete to the best of my knowledge and understand that pursuant to OCD rules or file certain release notifications and perform corrective actions for releases which ceptance of a C-141 report by the OCD does not relieve the operator of liability gate and remediate contamination that pose a threat to groundwater, surface water, ceptance of a C-141 report does not relieve the operator of responsibility for ind/or regulations. The responsible party acknowledges they must substantially ea to the conditions that existed prior to the release or their final land use in ion to the OCD when reclamation and re-vegetation are complete.
Printed Name: Michael Gant	Title: Environmental Coordinator
Signature:	Date: 4/28/2020
email: MGant@lucid-energy.com	Telephone: 314-330-7876
OCD Only	
Received by: Cristina Eads	Date: 04/30/2020
remediate containination that poses a threat to groundwate	sible party of liability should their operations have failed to adequately investigate and er, surface water, human health, or the environment nor does not relieve the responsible
party of compliance with any other federal, state, or local	t laws allow regulations.
party of compliance with any other federal, state, or local	Date: 07/02/2020



Appendix B

Photographic Log



Page 1 of 2

Appendix B: Photographic Log 12/02/2019-03/31/2020 Mean Green 10" Line



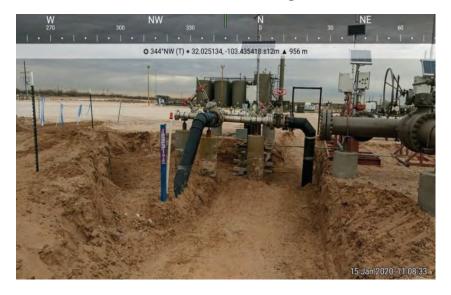
Pre-Excavation Aerial (12/02/19)



Point of Release (Saddle-clamp)



Pre-Excavation Looking East



Riser Excavated Area Looking North



Page 2 of 2

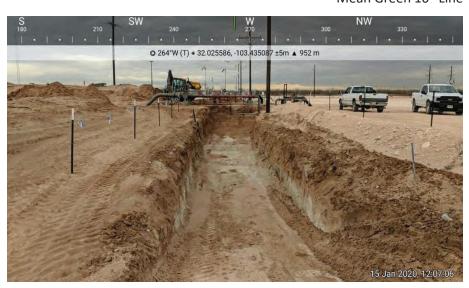
Appendix B: Photographic Log 12/02/2019-03/31/2020 Mean Green 10" Line



Pre-Excavation Looking West



Post-Excavation (Looking South)



Post-Excavation Looking East



Excavation Backfill (3/31/2020)



Appendix C

Groundwater Data



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

C 03577 POD1 3 3 3 22 26S 33E

636010 3543771

Driller License: 1654 **Driller Company:** NOT WORKING FOR HIRE--SIRMAN DRILLING

Driller Name: AND CONSTRUC

Drill Start Date: 11/19/2012 **Drill Finish Date:** 11/20/2012 **Plug Date:**

Log File Date:12/11/2012PCW Rcv Date:Source:ShallowPump Type:Pipe Discharge Size:Estimated Yield:35 GPMCasing Size:6.00Depth Well:750 feetDepth Water:110 feet

Water Bearing Stratifications: Top Bottom Description

95 150 Sandstone/Gravel/Conglomerate

200 710 Sandstone/Gravel/Conglomerate

Casing Perforations: Top Bottom

180 200 690 750

Meter Number: 16570 **Meter Make:** MASTERMETER

Meter Serial Number:6985354Meter Multiplier:100.0000Number of Dials:6Meter Type:Diversion

Unit of Measure: Gallons Return Flow Percent:

Usage Multiplier: Reading Frequency: Monthly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr Comment	Mtr Amoun
04/01/2014	2014	123440	A	RPT	(
07/01/2014	2014	160772	A	RPT	11.45
10/01/2014	2014	193527	A	RPT	10.052
12/31/2014	2014	237836	A	RPT	13.59
02/01/2015	2015	247102	A	RPT	2.84
03/02/2015	2015	260095	A	RPT	3.98
04/01/2015	2015	268444	A	RPT	2.56
04/30/2015	2015	284991	A	RPT	5.07
05/31/2015	2015	296985	A	RPT	3.68
07/01/2015	2015	313077	A	RPT	4.93
08/01/2015	2015	321571	A	RPT	2.60
08/31/2015	2015	333738	A	RPT	3.73
10/01/2015	2015	340361	A	RPT	2.03

**YTD Meter Amounts: Year Amount
2014 35.107

http://nmwrrs.ose.state.nm.us/...Dispatcher?type=PODGHTML&name=PodGroundSummaryHTML.jrxml&basin=C&nbr=03577&suffix=POD1[4/28/2020 3:07:32 PM]

2015

31.464

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

4/28/20 3:00 PM



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

v v

C 02295

4 Q10 Q4 Bec 1 ws King

X

0 02270

2 2 4 12 26S 33E

639850 3547710*

Driller License: 122

UNKNOWN

UNKNOWN

Driller Name: UNKN

Drill Finish Date:

12/31/1949

Plug Date:

Drill Start Date: Log File Date:

PCW Rcv Date:

Driller Company:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

12 GPM

Casing Size:

8.00

Depth Well:

250 feet

Depth Water:

200 feet

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.

4/28/20 2:59 PM

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



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

 \mathbf{X} Y

00027 POD1

2 2 30 26S 36E 660612

3543961

Driller License: 1682 **Driller Company:** HUNGRY HORSE, LLC.

Driller Name: OHN NORRIS

Drill Start Date: 07/04/2013 **Drill Finish Date:** 07/11/2013 **Plug Date:**

Log File Date: 10/16/2013 **PCW Rcv Date:** Source: Shallow

Pump Type: Pipe Discharge Size: **Estimated Yield:**

571 feet 285 feet **Casing Size: Depth Well: Depth Water:** 12.00

Water earing Stratifications: ottom Description Top 285 325 Sandstone/Gra el/Conglomerate 367 Sandstone/Gra el/Conglomerate 430 446 Sandstone/Gra el/Conglomerate 465 Sandstone/Gra el/Conglomerate 523 Sandstone/Gra el/Conglomerate **Casing Perforations:** Top ottom 0 571

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.

4/28/20 3:04 PM



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

 \mathbf{X} Y

C 03795 POD1

3 24 26S 35E 658419

3544221

Driller License:

Driller Company:

DURAN DRILLING

Driller Name:

DURAN, LUIS (TONY)

Plug Date:

Drill Start Date: Log File Date:

02/02/2015

Drill Finish Date:

02/06/2015

Source:

Shallow

Pump Type:

02/19/2015

PCW Rcv Date: Pipe Discharge Size:

Estimated Yield:

180 GPM

Casing Size:

7.00

Depth Well:

496 feet

Depth Water:

250 feet

Top

460

ottom Description

Water earing Stratifications:

320

324 Sandstone/Gra el/Conglomerate 492 Sandstone/Gra el/Conglomerate

Casing Perforations:

Top ottom

495 195

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

4/28/20 3:01 PM



Appendix D

Laboratory Analytical Reports



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

December 10, 2019

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

RE: Mean Green Release OrderNo.: 1912115

Dear Michael Gant:

Hall Environmental Analysis Laboratory received 4 sample(s) on 12/4/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical ReportLab Order **1912115**

Date Reported: 12/10/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Client Sample ID: HA-1

 Project:
 Mean Green Release
 Collection Date: 12/2/2019 11:51:00 AM

 Lab ID:
 1912115-001
 Matrix: SOIL
 Received Date: 12/4/2019 9:10:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst: BRM
Diesel Range Organics (DRO)	1100	48		mg/Kg	5	12/9/2019 8:59:08 AM
Motor Oil Range Organics (MRO)	380	240		mg/Kg	5	12/9/2019 8:59:08 AM
Surr: DNOP	140	70-130	S	%Rec	5	12/9/2019 8:59:08 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	21	4.9		mg/Kg	1	12/5/2019 10:38:36 AM
Surr: BFB	219	66.6-105	S	%Rec	1	12/5/2019 10:38:36 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/5/2019 10:38:36 AM
Toluene	ND	0.049		mg/Kg	1	12/5/2019 10:38:36 AM
Ethylbenzene	0.070	0.049		mg/Kg	1	12/5/2019 10:38:36 AM
Xylenes, Total	0.29	0.097		mg/Kg	1	12/5/2019 10:38:36 AM
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	12/5/2019 10:38:36 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	2900	150		mg/Kg	50	12/9/2019 11:01:44 AM

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

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 1 of 8

CLIENT: Lucid Energy Delaware

Analytical Report

Lab Order **1912115**Date Reported: **12/10/2019**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: HA-2

Project: Mean Green Release Collection Date: 12/2/2019 11:53:00 AM

Lab ID: 1912115-002 **Matrix:** SOIL **Received Date:** 12/4/2019 9:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	8.7	mg/Kg	1	12/9/2019 9:08:15 AM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	12/9/2019 9:08:15 AM
Surr: DNOP	109	70-130	%Rec	1	12/9/2019 9:08:15 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/5/2019 12:12:15 PM
Surr: BFB	84.9	66.6-105	%Rec	1	12/5/2019 12:12:15 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	12/5/2019 12:12:15 PM
Toluene	ND	0.048	mg/Kg	1	12/5/2019 12:12:15 PM
Ethylbenzene	ND	0.048	mg/Kg	1	12/5/2019 12:12:15 PM
Xylenes, Total	ND	0.096	mg/Kg	1	12/5/2019 12:12:15 PM
Surr: 4-Bromofluorobenzene	98.0	80-120	%Rec	1	12/5/2019 12:12:15 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	2700	150	mg/Kg	50	12/9/2019 11:14:05 AM

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

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 2 of 8

Analytical Report

Lab Order **1912115**Date Reported: **12/10/2019**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Client Sample ID: HA-3

 Project:
 Mean Green Release
 Collection Date: 12/2/2019 11:55:00 AM

 Lab ID:
 1912115-003
 Matrix: SOIL
 Received Date: 12/4/2019 9:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	12/9/2019 9:17:21 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/9/2019 9:17:21 AM
Surr: DNOP	113	70-130	%Rec	1	12/9/2019 9:17:21 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	12/5/2019 1:22:27 PM
Surr: BFB	81.9	66.6-105	%Rec	1	12/5/2019 1:22:27 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	12/5/2019 1:22:27 PM
Toluene	ND	0.046	mg/Kg	1	12/5/2019 1:22:27 PM
Ethylbenzene	ND	0.046	mg/Kg	1	12/5/2019 1:22:27 PM
Xylenes, Total	ND	0.093	mg/Kg	1	12/5/2019 1:22:27 PM
Surr: 4-Bromofluorobenzene	93.4	80-120	%Rec	1	12/5/2019 1:22:27 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	3000	150	mg/Kg	50	12/9/2019 11:26:26 AM

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

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Analytical ReportLab Order **1912115**

Date Reported: 12/10/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Client Sample ID: HA-4

Project:Mean Green ReleaseCollection Date: 12/2/2019 11:58:00 AMLab ID:1912115-004Matrix: SOILReceived Date: 12/4/2019 9:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	12/9/2019 9:26:26 AM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	12/9/2019 9:26:26 AM
Surr: DNOP	101	70-130	%Rec	1	12/9/2019 9:26:26 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/5/2019 1:46:03 PM
Surr: BFB	82.3	66.6-105	%Rec	1	12/5/2019 1:46:03 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	12/5/2019 1:46:03 PM
Toluene	ND	0.047	mg/Kg	1	12/5/2019 1:46:03 PM
Ethylbenzene	ND	0.047	mg/Kg	1	12/5/2019 1:46:03 PM
Xylenes, Total	ND	0.094	mg/Kg	1	12/5/2019 1:46:03 PM
Surr: 4-Bromofluorobenzene	95.8	80-120	%Rec	1	12/5/2019 1:46:03 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	2600	150	mg/Kg	50	12/9/2019 11:38:47 AM

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

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1912115**

10-Dec-19

Client: Lucid Energy Delaware
Project: Mean Green Release

Sample ID: MB-49205 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 49205 RunNo: 65000

Prep Date: 12/6/2019 Analysis Date: 12/6/2019 SeqNo: 2230295 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-49205 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 49205 RunNo: 65000

Prep Date: 12/6/2019 Analysis Date: 12/6/2019 SeqNo: 2230296 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.0 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 Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1912115**

10-Dec-19

Client: Lucid Energy Delaware
Project: Mean Green Release

Sample ID: MB-49170 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 49170 RunNo: 65021

Prep Date: 12/5/2019 Analysis Date: 12/9/2019 SeqNo: 2230412 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) ND 10
Motor Oil Range Organics (MRO) ND 50

 Surr: DNOP
 11
 10.00
 108
 70
 130

Sample ID: LCS-49170 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 49170 RunNo: 65021

Prep Date: 12/5/2019 Analysis Date: 12/9/2019 SegNo: 2230418 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO) 51 10 50.00 0 102 63.9 124

 Diesel Range Organics (DRO)
 51
 10
 50.00
 0
 102
 63.9
 124

 Surr: DNOP
 4.3
 5.000
 85.9
 70
 130

Sample ID: 1912115-001AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **HA-1** Batch ID: **49170** RunNo: **65021**

Prep Date: 12/5/2019 Analysis Date: 12/9/2019 SeqNo: 2231625 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 730 45 45.00 1147 -921 57 S 142

 Surr: DNOP
 5.7
 4.500
 127
 70
 130

Sample ID: 1912115-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **HA-1** Batch ID: **49170** RunNo: **65021**

Prep Date: 12/5/2019 Analysis Date: 12/9/2019 SeqNo: 2231626 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result POI LowLimit Diesel Range Organics (DRO) 910 47 47.26 1147 -501 57 142 21.6 20 RS Surr: DNOP 7.3 4.726 155 70 130 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 Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1912115 10-Dec-19**

Client: Lucid Energy Delaware
Project: Mean Green Release

Sample ID: mb-49165 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 49165 RunNo: 64975

Prep Date: 12/4/2019 Analysis Date: 12/5/2019 SeqNo: 2228503 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 810 1000 81.3 66.6 105

Sample ID: Ics-49165 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 49165 RunNo: 64975

Prep Date: 12/4/2019 Analysis Date: 12/5/2019 SeqNo: 2228504 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 O 88.2 80 120

Surr: BFB 940 1000 94.2 66.6 105

Sample ID: 1912115-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: **HA-1** Batch ID: **49165** RunNo: **64975**

Prep Date: 12/4/2019 Analysis Date: 12/5/2019 SeqNo: 2228507 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual Gasoline Range Organics (GRO) 53 23.72 20.53 139 69.1 142 Surr: BFB 2600 948.8 275 66.6 105 S

Sample ID: 1912115-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: **HA-1** Batch ID: **49165** RunNo: **64975**

Prep Date: 12/4/2019 Analysis Date: 12/5/2019 SeqNo: 2228508 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD Result **PQL** LowLimit HighLimit **RPDLimit** Qual Gasoline Range Organics (GRO) 63 4.8 23.90 20.53 177 69.1 142 16.2 20 S Surr: BFB 3100 956.0 329 66.6 105 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 Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1912115**

10-Dec-19

Client: Lucid Energy Delaware

Project: Mean Green Release

Sample ID: mb-49165 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 49165 RunNo: 64975

Prep Date: 12/4/2019 Analysis Date: 12/5/2019 SeqNo: 2228519 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Benzene ND 0.025

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

 Surr: 4-Bromofluorobenzene
 0.93
 1.000
 93.5
 80
 120

Sample ID: LCS-49165 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 49165 RunNo: 64975

Analysis Date: 12/5/2019 SeqNo: 2228520 Prep Date: 12/4/2019 Units: mg/Kg **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual 1.000 0.91 0.025 O 91.4 80 120 Benzene Toluene 0.93 0.050 1.000 0 93.0 80 120 Ethylbenzene 0.92 0.050 1.000 0 92.3 80 120 0 Xylenes, Total 2.8 0.10 3.000 93.2 80 120 Surr: 4-Bromofluorobenzene 98.0 0.98 1.000 80 120

Sample ID: 1912115-002AMS SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: **HA-2** Batch ID: **49165** RunNo: **64975**

Prep Date: 12/4/2019 Analysis Date: 12/5/2019 SeqNo: 2228524 Units: mg/Kg Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.89 0.024 0.9461 O 93.6 76 123 Benzene Toluene 0.91 0.047 0.9461 0.01128 95.4 80.3 127 80.2 Ethylbenzene 0.93 0.047 0.9461 O 98.2 131 Xylenes, Total 0.095 2.838 0.01466 98.7 133 2.8 78 Surr: 4-Bromofluorobenzene 0.96 0.9461 102 80 120

Sample ID: 1912115-002AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles

Client ID: **HA-2** Batch ID: **49165** RunNo: **64975**

Prep Date: 12/4/2019	Analysis D	Date: 12	2/5/2019	SeqNo: 2228525			Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.023	0.9363	0	102	76	123	7.95	20	•
Toluene	1.0	0.047	0.9363	0.01128	107	80.3	127	10.1	20	
Ethylbenzene	1.0	0.047	0.9363	0	110	80.2	131	10.2	20	
Xylenes, Total	3.1	0.094	2.809	0.01466	111	78	133	10.7	20	
Surr: 4-Bromofluorobenzene	0.99		0.9363		105	80	120	0	0	

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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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 DELAW	Work Order Number:	1912115		RcptNo:	1
Received By: Yazmine Garduno	12/4/2019 9:10:00 AM		Afronis Librari	;	
Completed By: Yazmine Garduno	12/4/2019 9:26:22 AM		Alequin letterbuit	5	
Reviewed By: 0 12/	4/19		•		
<u>Chain of Custody</u>					
1. Is Chain of Custody sufficiently complete	?	Yes 🗹	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
Log In 3. Was an attempt made to cool the sample	es?	Yes 🗸	No 🗌	na 🗆	
4. Were all samples received at a temperat	ure of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗆	
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗆		
6. Sufficient sample volume for indicated tes	st(s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) proj	perly 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 br	oken?	Yes	No 🗹	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗆	bottles checked for pH:	12 unless noted)
2. Are matrices correctly identified on Chain	of Custody?	Yes 🗹	No 🗆	Adjusted?	
3. Is it clear what analyses were requested?	1	Yes 🗹	No 🗆	/ -	176110
4. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗆	Checked by:	NUICHI
Special Handling (if applicable)					
15. Was client notified of all discrepancies w	ith this order?	Yes 🗌	No 🗆	NA 🗹	
Person Notified: By Whom: Regarding: Client Instructions:	Date Via:	eMail [] Phone Fax	In Person	
16. Additional remarks:					I
17. Cooler Information Cooler No Temp °C Condition 1 3.7 Good	Seal Intact Seal No S	eal Date	Signed By		

Received by OCD:	4/30/20 <mark>20</mark>	1:01:04 PM						Page 39 a
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	(1.408 OF 8270SIMS & \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	8081 Pesticide EDB (Method 9 RCRA 8 Metals CD, Br, NO 8260 (VOA)	X	× ×	X		Remarks:
		(1508) s'BMT \	I)入]	XX	×		
	Project #:	Project Manager: M; / c	# of Coolers: 1 Cooler Temp(moluding ct): 3-4/11	glass Ice	-002	h00-		Received by: Received by: The Time The Time The Time The Time The Time The Time
Turm S	Proje		Cont Type	402				Recei
Client: Lucid Energy Graup	Naming Address: 201 5, 4711 57 Artesia, NM 88210 Phone #: 3,4-338-7876	majant of luk	□ EDD (Type) □ Date Time Matrix Sample Name	56.1	11.53 NA-2	4-11:58 6 11.58		Date: Time: Relinquished by: 22-7 12.30 MM Date: Time: Relinquished by:



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

December 30, 2019

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

RE: Mean Green CTB OrderNo.: 1912B00

Dear Michael Gant:

Hall Environmental Analysis Laboratory received 5 sample(s) on 12/20/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 12/30/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Client Sample ID: HA-5-3'

 Project:
 Mean Green CTB
 Collection Date: 12/18/2019 11:30:00 AM

 Lab ID:
 1912B00-001
 Matrix: SOIL
 Received Date: 12/20/2019 9:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	12/27/2019 10:55:43 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	12/27/2019 10:55:43 AM
Surr: DNOP	91.0	70-130	%Rec	1	12/27/2019 10:55:43 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	12/27/2019 1:59:10 PM
Surr: BFB	76.7	66.6-105	%Rec	1	12/27/2019 1:59:10 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	12/27/2019 1:59:10 PM
Toluene	ND	0.050	mg/Kg	1	12/27/2019 1:59:10 PM
Ethylbenzene	ND	0.050	mg/Kg	1	12/27/2019 1:59:10 PM
Xylenes, Total	ND	0.099	mg/Kg	1	12/27/2019 1:59:10 PM
Surr: 4-Bromofluorobenzene	94.5	80-120	%Rec	1	12/27/2019 1:59:10 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	5100	150	mg/Kg	50	12/28/2019 6:45:29 AM

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

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 1 of 9

Date Reported: 12/30/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Client Sample ID: B-1-2'

 Project:
 Mean Green CTB
 Collection Date: 12/18/2019 11:55:00 AM

 Lab ID:
 1912B00-002
 Matrix: SOIL
 Received Date: 12/20/2019 9:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	12/27/2019 11:20:04 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/27/2019 11:20:04 AM
Surr: DNOP	92.9	70-130	%Rec	1	12/27/2019 11:20:04 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	12/27/2019 3:33:37 PM
Surr: BFB	80.1	66.6-105	%Rec	1	12/27/2019 3:33:37 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	12/27/2019 3:33:37 PM
Toluene	ND	0.050	mg/Kg	1	12/27/2019 3:33:37 PM
Ethylbenzene	ND	0.050	mg/Kg	1	12/27/2019 3:33:37 PM
Xylenes, Total	ND	0.10	mg/Kg	1	12/27/2019 3:33:37 PM
Surr: 4-Bromofluorobenzene	98.7	80-120	%Rec	1	12/27/2019 3:33:37 PM
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	690	60	mg/Kg	20	12/24/2019 12:01:52 AM

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

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Date Reported: 12/30/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware

Client Sample ID: B-2-2' **Collection Date:** 12/18/2019 12:25:00 PM **Project:** Mean Green CTB

1912B00-003 Received Date: 12/20/2019 9:15:00 AM Lab ID: Matrix: SOIL

Analyses	Result	RL Qua	ıl Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	460	60	mg/Kg	20	12/24/2019 12:38:55 AM

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

Qualifiers:

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

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

Page 3 of 9

Date Reported: 12/30/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware

Project: Mean Green CTB

Lab ID: 1912B00-004

Client Sample ID: B-3-2'

Collection Date: 12/18/2019 12:30:00 PM

Received Date: 12/20/2019 9:15:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	1500	60	mg/Kg	20	12/24/2019 12:51:15 AM

Matrix: SOIL

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

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 4 of 9

Date Reported: 12/30/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware

Project: Mean Green CTB

Lab ID:

1912B00-005

Client Sample ID: B-4-2'

Collection Date: 12/18/2019 12:35:00 PM

Received Date: 12/20/2019 9:15:00 AM

Analyses Result RL Qual Units DF Date Analyzed

Matrix: SOIL

EPA METHOD 300.0: ANIONS

Analyst: MRA

Chloride 1100 60 mg/Kg 20 12/24/2019 1:03:35 AM

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

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1912B00**

30-Dec-19

Client: Lucid Energy Delaware
Project: Mean Green CTB

Sample ID: MB-49494 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 49494 RunNo: 65358

Prep Date: 12/23/2019 Analysis Date: 12/23/2019 SeqNo: 2246271 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-49494 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 49494 RunNo: 65358

Prep Date: 12/23/2019 Analysis Date: 12/23/2019 SeqNo: 2246272 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.4 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 Quanitative Limit

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 6 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **1912B00** 30-Dec-19

Client: Lucid Energy Delaware
Project: Mean Green CTB

Sample ID: LCS-49535 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 49535 RunNo: 65437

Prep Date: 12/27/2019 Analysis Date: 12/27/2019 SeqNo: 2247854 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 0 51 50.00 101 63.9 124

Surr: DNOP 4.5 5.000 90.0 70 130

Sample ID: MB-49535 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 49535 RunNo: 65437

Prep Date: 12/27/2019 Analysis Date: 12/27/2019 SeqNo: 2247855 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) ND 10
Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 9.2 10.00 92.0 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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 7 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: **1912B00**

30-Dec-19

Client: Lucid Energy Delaware
Project: Mean Green CTB

Sample ID: MB-49528 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 49528 RunNo: 65453

Prep Date: 12/26/2019 Analysis Date: 12/27/2019 SeqNo: 2248318 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 820 1000 82.2 66.6 105

Sample ID: LCS-49528 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 49528 RunNo: 65453

870

Prep Date: 12/26/2019 Analysis Date: 12/27/2019 SeqNo: 2248319 Units: mg/Kg

1000

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 22 5.0 25.00 0 89.4 80 120

87.2

66.6

105

Qualifiers:

Surr: BFB

- 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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 8 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#: 1912B00

30-Dec-19

Client: Lucid Energy Delaware **Project:** Mean Green CTB

Sample ID: MB-49528 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: **PBS** Batch ID: 49528 RunNo: 65453

Prep Date: 12/26/2019 Analysis Date: 12/27/2019 SeqNo: 2248345 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.025 Benzene ND

ND 0.050 Toluene 0.050 Ethylbenzene ND Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 1.0 1.000 100 80 120

Sample ID: LCS-49528 SampType: LCS TestCode: EPA Method 8021B: Volatiles LCSS Client ID: Batch ID: 49528 RunNo: 65453

Prep Date: Analysis Date: 12/27/2019 SeqNo: 2248346 12/26/2019 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 1.000 0 97.3 Benzene 0.97 0.025 80 120 Toluene 0.96 0.050 1.000 0 96.3 80 120 Ethylbenzene 0.97 0.050 1.000 0 97.0 80 120 Xylenes, Total 3.000 0 98.6 80 120 3.0 0.10 Surr: 4-Bromofluorobenzene 1.000 98.3 0.98 80 120

Qualifiers:

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

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

Page 9 of 9



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 DELAW	Work Order Nun	nber: 191	2B00			RcptNo: 1
Received By:	Leah Baca	12/20/2019 9:15:0	0 AM		Look	Bac	×.
Completed By:	Michelle Garcia	12/20/2019 12:08:	56 PM		mi	hell (Janua
Reviewed By:	LB	17/20/14	1				
Chain of Cust	ody						
1. Is Chain of Cu	stody sufficiently complete?		Yes	V	No		Not Present
2. How was the s	sample delivered?		Cou	<u>rier</u>			
Log In							
3. Was an attemp	pt made to cool the samples?		Yes	V	No		NA 🗌
4. Were all samp	les received at a temperature	of >0° C to 6.0°C	Yes	V	No		NA 🗆
5. Sample(s) in p	roper container(s)?		Yes	<u>v</u>	No		
6. Sufficient samp	ole volume for indicated test(s)?	Yes	~	No		
	except VOA and ONG) proper		Yes	~	No		
8. Was preservati	ive added to bottles?		Yes		No	V	NA 🗆
9. Received at lea	ast 1 vial with headspace <1/4	" for AQ VOA?	Yes		No		NA 🔽
10, Were any sam	ple containers received broke	n?	Yes		No	~	# of preserved
	k match bottle labels?		Yes	v	No		bottles checked for pH:
	ncies on chain of custody) prrectly identified on Chain of	Custody?	Yes	~	No	П	(<2 or >12 unless noted) Adjusted?
	analyses were requested?	oustody:	Yes	~	No		
14. Were all holding	g times able to be met? stomer for authorization.)		Yes	-	No		Checked by:
	ng (if applicable)						
	ified of all discrepancies with	his order?	Yes		No		NA 🗹
Person N	Notified:	Date				_	
By Whor	m:	Via:	☐ eM	ail 🔲	Phone _	Fax	☐ In Person
Regardin	eg:						
	Contraction to the contraction of the contraction o						
16. Additional rem							
 Cooler Inform Cooler No 		sal lateat Desire	0		Olympia i		8
1		eal Intact Seal No Present	Seal D	ate	Signed I	Ву	1

Mailing Address: 201 S 44h St Project Name: Mailing Address: 201 S 44h St Project #:	
Sample Name Project Manager: Project Manager: Project Manager: Matrix Sample Name Project Manager: Matrix Sample Name Preservative Matrix Sample Name Pres	### PAHs by 8310 or 8270SIMS ### RCRA 8 Metals ### RCRA 8 Metals ### ACRA 8 Metals ### ACRA 8 Metals ### ACRA 8 Metals ### ACRA 8 Metals
Project #: Level 4 (Full Validation) Project Manager: Devel 4 (Full Validation) Project Manager: Michael Cantel Worffith	(\$\hat{O}\$) MTBE \ TMB's (8021) (\$\hat{O}\$) MTBE \ TMB's (8021) (\$\hat{O}\$) MRO \ DRO \ MRO) (\$\hat{O}\$) MRO \ BOSTOSIMS (\$\hat{O}\$) Metals (\$\hat{O}\$) Metals (\$\hat{O}\$) Metals
Project Manager: Level 4 (Full Validation) Sampler: Michae Canton Az Compliance Sampler: Michae Woffith Other # of Coolers: Michae Woffith On Ice: EYes No # of Cooler Temp(including CP): 3,3 - 5, 1-3,2 Container Preservative HEAL No For Soil Type Cooler B-2-2 Cooler B-3-2	BTE MTBE TMB's (8021)
Project Manager: Level 4 (Full Validation) Sampler: Michael Canter Az Compliance Sampler: Michael Woffith On Ice: Breservative HEAL No. Sample Name Freservative HEAL No. Sample Name Type and # Type OO Sample Name Type and # Type OO Sample Name Freservative HEAL No. Sample Name Freservative HEAL No. Sample Name Freservative OO Sample Name OO	BTES MTBE / TMB's (8021) RTES MTBE / TMB's (8021) 8081 Pesticides/8082 PCB's EDB (Method 504.1) PAHs by 8310 or 8270SIMS RCRA 8 Metals R
Devel 4 (Full Validation) Date Compliance Other Matrix Sample Name Container Preservative HEAL No. Type and # Type Container Preservative (1) Color Temp(motuding orb.: \$3 - \$1 - \$2 Container Preservative (1) Color Temp(motuding orb.: \$3 - \$1 - \$2 Container Preservative (1) Color Temp(motuding orb.: \$3 - \$1 - \$2 Color Temp(motuding orb.: \$3 - \$1 - \$2 Color Temp(motuding orb.: \$3 - \$1 - \$2 Color Temp(motuding orb.: \$3 - \$2 Colo	### BET A MTBE / TMB's (802) ### BO81 Pesticides/8082 PCB's ### BO81 Pesticides/8082 PCB's ### PAHs by 8310 or 8270SIMS ### RCRA 8 Metals ###
□ Level 4 (Full Validation) □ Az Compliance □ Other □ HEAL No. □ Cooler Temp(including cp): \$;3 - \$;1 = \$;2 □ Cooler Temp(including cp): \$;3 - \$;1 = \$;2 □ Cooler Temp(including cp): \$;3 - \$;1 = \$;2 □ Cooler Temp(including cp): \$;3 - \$;1 = \$;2 □ Cooler Temp(including cp): \$;3 - \$;1 = \$;2 □ Cooler Temp(including cp): \$;3 - \$;1 = \$;2 □ Cooler Temp(including cp): \$;3 - \$;1 = \$;2 □ Cooler Temp(including cp): \$;3 - \$;1 = \$;2 □ Cooler Temp(including cp): \$;3 - \$;1 = \$;2 □ Cooler Temp(including cp): \$;3 - \$;5 = \$;2 □ Cooler Temp(including cp): \$;5 = \$;2 □ Cooler Temp(including cp): \$;5 = \$;5 □ Coole	### BTEX MTBE / TMB's (#### MTBE / TMB's (##### MTBE / TMB's (##### MTBE / TMB's (##### MTBE / TMB's (####### MTBE / TMB's (####################################
Az Compliance Sampler: Michael Moffith	### BTEX MTBE / TME ### B081 Pesticides/8082 ### B081 Pesticides/808
□ Other	### BEEN MTBE / TRPH ### BON
# of Coolers: (1) Matrix Sample Name	BTEX MTBE 8081 Pesticide 8081 Pesticide PAHs by 8310 RCRA 8 Metal
Cooler Temp(including CF): \$,3-\$,1-3-2	### ### ### ### ### ### ### ### ### ##
Container Preservative Container Preservative Name Type and # Type Type and # Type Name N	8270 (S
1130 S HA-5-3' 40294s ICE 1135 S HA-5-3' 40294s ICE 1255 B-2-2' 1230 B-3-2' 1235 B-3-2'	
1135 S HA-5-5 1155 B-1-2' 1225 B-2-2' 1230 B-3-2' 1230 B-3-2'	
B-1-2, B-2-2 B-3-2, B-3-2	
8-2-2, 8-3-2, 8-4-2,	
B-3-2/ B-4-2	
B-4-2	
л -	
Date: Time: Relinquished by: Milliff Received by: Via. Date Time 30	Remarks:
Date: Time: Relinquished by: Via: (Court Date Time	



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

January 08, 2020

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

RE: Mean Green CTB OrderNo.: 2001090

Dear Michael Gant:

Hall Environmental Analysis Laboratory received 5 sample(s) on 1/4/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: **2001090**Date Reported: **1/8/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Lab Order: 2001090 **Project:** Mean Green CTB Lab ID: 2001090-001 Collection Date: 12/30/2019 12:30:00 PM Client Sample ID: B-5-3' Matrix: SOIL **Analyses** Result RL Qual Units DF Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: CAS Chloride 610 60 1/6/2020 7:47:28 PM mg/Kg 20 49640 Lab ID: 2001090-002 **Collection Date:** 1/3/2020 11:30:00 AM Client Sample ID: SW-1-C Matrix: SOIL Analyses Result RL Qual Units DF Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: CAS Chloride 430 60 mg/Kg 20 1/6/2020 7:59:52 PM 49640 Lab ID: 2001090-003 **Collection Date:** 1/3/2020 11:35:00 AM Matrix: SOIL Client Sample ID: SW-2-C RL Qual Units DF Date Analyzed Analyses Result **Batch ID EPA METHOD 300.0: ANIONS** Analyst: CAS Chloride ND 60 mg/Kg 1/6/2020 8:12:17 PM 49640 Lab ID: 2001090-004 **Collection Date:** 1/3/2020 12:20:00 PM Client Sample ID: SW-3-C Matrix: SOIL Result **RL Qual Units** DF Date Analyzed **Batch ID Analyses EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride ND 60 mg/Kg 1/6/2020 1:58:39 PM 49642 Lab ID: Collection Date: 1/3/2020 12:35:00 PM 2001090-005 Client Sample ID: Matrix: SOIL B-6-4' **Analyses** Result RL Qual Units DF Date Analyzed **Batch ID EPA METHOD 300.0: ANIONS** Analyst: MRA

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

700

Qualifiers:

Chloride

- 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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

1/6/2020 2:11:00 PM

E Value above quantitation range

mg/Kg

- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

60

Page 1 of 2

49642

Hall Environmental Analysis Laboratory, Inc.

WO#: **2001090**

08-Jan-20

Client: Lucid Energy Delaware
Project: Mean Green CTB

Sample ID: MB-49640 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 49640 RunNo: 65598

Prep Date: 1/6/2020 Analysis Date: 1/6/2020 SeqNo: 2253170 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-49640 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 49640 RunNo: 65598

Prep Date: 1/6/2020 Analysis Date: 1/6/2020 SeqNo: 2253171 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.3 90 110

Sample ID: MB-49642 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 49642 RunNo: 65601

Prep Date: 1/6/2020 Analysis Date: 1/6/2020 SeqNo: 2253254 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-49642 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 49642 RunNo: 65601

Prep Date: 1/6/2020 Analysis Date: 1/6/2020 SeqNo: 2253255 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 92.7 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 Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

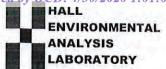
E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 2



Hall Environmental Analysis Laboratory 4901 Hawkins NE

Sample Log-In Check List Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Client Name:	LUCID ENE	RGY DELAV	V Work	Order Num	ber: 200	1090			RcptNo: 1	
Received By:	Yazmine G	arduno	1/4/202	0 9:45:00 A	M		Magnin	i lighteur	ž.	
Completed By:	Yazmine G	arduno	1/4/202	0 10:31:11	AM		alamin	Copraeri	ž.	
Reviewed By:	57		01/00/	A TOROGET TOR	507		0.0			
01 1 10	-100 Kg									
Chain of Cus		10	2.							
1. Is Chain of C	Custody sufficie	ntly complete	9?		Yes	~	No	Ц	Not Present	
2. How was the	sample delive	red?			Cou	rier				
Log In										
3. Was an atter	mpt made to co	ol the sample	es?		Yes	~	No		NA 🗆	
4. Were all sam	ples received a	at a temperat	ure of >0° C	to 6.0°C	Yes	V	No		NA 🗆	
5. Sample(s) in	proper contain	er(s)?			Yes	~	No			
6. Sufficient san	mple volume for	indicated te	st(s)?		Yes	V	No			
7. Are samples	(except VOA a	nd ONG) pro	perly preserve	ed?	Yes	~	No			
8. Was preserva			1000000000		Yes		No	V	NA 🗆	
9. Received at le	east 1 vial with	headspace <	1/4" for AQ V	OA?	Yes		No		NA 🗹	
10. Were any sa	mple containers	s received br	oken?		Yes		No	V		
	4				1,25		9,1.5		# of preserved	
11. Does paperw	ork match bottl	e labels?			Yes	~	No		bottles checked for pH:	
(Note discrep	ancies on chair	of custody)								unless noted)
12. Are matrices	correctly identif	ied on Chain	of Custody?		Yes	V	No		Adjusted?	
13. Is it clear wha	at analyses wer	e requested?			Yes	~	No		/	1 100
14. Were all hold					Yes	~	No		Checked by:	16/20
(If no, notify o	customer for au	thorization.)						1		1-1-
Special Hand	ling (if appl	icable)								
15. Was client no	otified of all disc	crepancies w	ith this order?	e.	Yes		No		NA 🗸	
Person	Notified:		H-C-CAI	Date	_			-		
By Who	om: [V 1900 III		Via:	☐ eM	ail 🖂	Phone	Fax	In Person	
Regard	ling:		- United				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		шотани	
	nstructions:		-					_		
16. Additional re	emarks:									
17. Cooler Info	rmation									
Cooler No	200	Condition	Seal Intact	Seal No	Seal D	ato 1	Signed E	2.,	r .	
1		Good	ocui intact	ocal No	Jeal D	ate	Signed E	у		
2	100 100	Good								
3	2.2	Good								

Client: Lucid Energy Cooup Project Name: Mailing Address: 201 S. 444 ST Phone #: 314-330-7874 Phone #: 314-340-7874 Phone #: 314-340-7874 Phone #: 314-340-7874 Phone #: 314-340-7874 Phone #: 314-340-	indard Rush Astrony Name: Mean (Sveen (TB) Manager: Michael (Sant) Br: Michael (Sant) Br: Michael (Moffit) Br: Michael (Moffit) Myes No	ANALYSIS L Www.hallenvironmenta 4901 Hawkins NE - Albuquerque Tel. 505-345-3975 Fax 505-3 Analysis Requ
Project Project Project Project Project Standard Project Standard Project Standard Project Project Standard Project Standard Standar	Res M	4901 Haw Tel. 505-3
ress: 201 S. 4kh ST Project Reserved Standard Project Standard Project Standard Project Standard Project Project Standard Conferment Cooler Project Standard Sta	Ran Kes M	4901 Hawkins NE - Tel. 505-345-3975 An
Sample Back Broject Broject Sample Broject Sample Broject Back Broject Broject Back Broject Back Broject Back Broject Back	rc Ca Mys	Tel. 505-345-3975
3/4-33 - 「写了人 Project age:	rel Ca res Must	Analysis
x#: mmokfik@lucidrenryy (2m Project age: age: Level 4 (Full Validation) Sample Collect Az Compliance On Ice pe) # of Co	ich Ca res Must	†O
age:	Lact Cant	05
n:	M/s	PCB's
pe)		8082 (1.4.1) - 827(8.4.1)
		65/8(95)3; OA
	ouding CF): Remark C)	bolda thod thod 831(Meta , NC)
Container Container Container Container	ıtive	TEX / I TPH:8018 3081 Peg EDB (Meg PAHs by 3CRA 8 3CRA 8 11, F, Br 12, F, Br 12, Colal Colal Colal Colal Colal Colal
9 13 30 S R - 5-3 (1 02 3 bus je/	[]	3
1130 1 SW-1-	7.40-	X
010320 1135 SW-7 - C	- 003	X
	100 V	×
1235	1 -065	×
Relinquished by: Mylleth	// S/10 1500	Remarks: 27 +0 i = 2.9 2 d +0 i = 4.0
Time: Relinquished by: 176 A	Towner I I by pays	



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

January 14, 2020

Michael Gant Lucid Energy Delaware 201 South 4th St. Artesia, NM 88210

TEL: (575) 513-8988

FAX:

RE: Mean Green CTB OrderNo.: 2001374

Dear Michael Gant:

Hall Environmental Analysis Laboratory received 5 sample(s) on 1/9/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 1/14/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware

Project: Mean Green CTB

Lab ID:

2001374-001

Matrix: SOIL

Client Sample ID: SW-4-C

Collection Date: 1/8/2020 11:15:00 AM Received Date: 1/9/2020 3:00:00 PM

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: CAS
Chloride	370	60	mg/Kg	20	1/10/2020 4:33:58 PM	49749

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

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 1 of 6

Date Reported: 1/14/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware

Project: Mean Green CTB

Lab ID:

2001374-002

Client Sample ID: SW-5-C

Collection Date: 1/8/2020 11:20:00 AM

Received Date: 1/9/2020 3:00:00 PM

Analyses	Result	RL Qu	ial Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: CAS
Chloride	140	60	mg/Kg	20	1/10/2020 4:46:19 PM	49749

Matrix: SOIL

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

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 2 of 6

Date Reported: 1/14/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware

Project: Mean Green CTB

Lab ID: 2001374-003

Client Sample ID: SW-6-C

Collection Date: 1/8/2020 11:25:00 AM Received Date: 1/9/2020 3:00:00 PM

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Chloride
 270
 60
 mg/Kg
 20
 1/10/2020 4:58:40 PM
 49749

Matrix: SOIL

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

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

orting I imit Page 3 of 6

Date Reported: 1/14/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware

Project: Mean Green CTB

Lab ID: 2001374-004

Client Sample ID: SW-7-C

Collection Date: 1/8/2020 11:27:00 AM

Received Date: 1/9/2020 3:00:00 PM

Analyses	Result	RL Qu	ial Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: CAS
Chloride	89	60	mg/Kg	20	1/10/2020 5:11:00 PM	1 49749

Matrix: SOIL

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

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 4 of 6

Client Sample ID: B-7-C-4'

Date Reported: 1/14/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware

Project: Mean Green CTB Collection Date: 1/8/2020 11:30:00 AM

Lab ID: 2001374-005 **Matrix:** SOIL **Received Date:** 1/9/2020 3:00:00 PM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: CAS
Chloride	ND	60	mg/Kg	20	1/10/2020 5:23:21 PM	1 49749

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

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: **2001374**

14-Jan-20

Client: Lucid Energy Delaware
Project: Mean Green CTB

Sample ID: MB-49749 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 49749 RunNo: 65712

Prep Date: 1/10/2020 Analysis Date: 1/10/2020 SeqNo: 2257076 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-49749 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 49749 RunNo: 65712

Prep Date: 1/10/2020 Analysis Date: 1/10/2020 SeqNo: 2257077 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.0 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 Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 6 of 6



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 DELAW	Work Order Nur	nber: 200	1374		RcptNo: 1	
Received By:	Daniel Marquez	1/9/2020 3:00:00	РМ		150		
Completed By:	Daniel Marquez	1/10/2020 10:53:4	2 AM		TOPE		
Reviewed By:	LB	1/10/20			113		
Chain of Cus	stody						
1. Is Chain of C	ustody sufficiently complete?		Yes	~	No 🗌	Not Present	
2. How was the	sample delivered?		Cou	rier			
Log In							
A TOTAL TOTA	npt made to cool the samples?		Yes	~	No 🗆	NA 🗌	
4. Were all samp	ples received at a temperature	of >0° C to 6.0°C	Yes	~	No 🗌	NA 🗆	
5. Sample(s) in	proper container(s)?		Yes	~	No 🗌		
6. Sufficient sam	nple volume for indicated test(s)?	Yes	~	No 🗌		
7. Are samples (except VOA and ONG) properl	y preserved?	Yes	~	No 🗌		
8. Was preserva	tive added to bottles?		Yes		No 🗸	NA 🗆	
9. Received at le	east 1 vial with headspace <1/4	" for AQ VOA?	Yes		No 🗌	NA 🗸	
10. Were any san	nple containers received broke	n?	Yes		No 🗸	# of preserved	
	ork match bottle labels? ancies on chain of custody)		Yes	~	No 🗆	bottles checked for pH:	2 unless noted)
12, Are matrices c	correctly identified on Chain of	Custody?	Yes	~	No 🗌	Adjusted?	
	t analyses were requested?		Yes	~	No 🗌		
	ng times able to be met? ustomer for authorization.)		Yes	V	No 🗌	Checked by: D4	D 1/10/20
Special Handli	ing (if applicable)						
15. Was client no	tified of all discrepancies with t	his order?	Yes		No 🗌	NA 🔽	
Person	Notified:	Date	: [***************************************			
By Who	m:	Via:	eMa	iil 🔲	Phone Fax	In Person	
Regardi							
Client In	estructions:			***************************************	***************************************		
16. Additional ren	marks:						
17. <u>Cooler Inform</u> Cooler No 1 2		al Intact Seal No	Seal Da	ite	Signed By		

Project Name: Project Name	Standard Rush School Project Name Project	MENTAL	. >		: 4/3					:04											/1								<u>age 6:</u>
Rush 3 day Creen CTB Sharper Schary Creen CTB Sharper Schary Creen CTB Sharper Scharper	Standard Standard Rush School	S	ABO	Com	N		345-41	lest	(tr	ıəsc	JA\Ji	uəs	Pre) w.	lofil	oD ls	toT												
Rush 3 day Creen CTB Sharper Creen CTB Creen CTB Sharper Creen CTB Creen CTB Sharper Creen CTB Creen CTB Sharper Creen CTB Sha	Standard Standard Rush School	AL	1	nent	Fraile	200	505-3	Redu					(A	OV-	·ime	98) 02	28												
Rush 3 day	Standard Rush Scharu Project Name Project	2	SIS	iron) I I I	2	-ax	sis/																					
Rush 3 day	Standard Rush Scharus Project Name Projec		1	llenv	A			Anal	¢O	S '	Ю	O ₂ ,			_		_	×	X	X	X	X							
Rush 3 day	Contained County		4	w h	HZ.		3975	1																					
Rush 3 day	Project Name Project Manager: Project Manager: Project Name Project Name Project Name Project Manager: Project	Î	Z	W	kins		345-3			SV	VIS(11111				-											
Green CTB Servative HEAL No. CE CE CE CE CE CE CE CE CE C	Sizor S. 44, S. Menne Project Name: Green (18 Project Name) Standard Rush School Project Name; Standard Rush School -330-7876 Project Manager: Michael Conf. -330-7876 Menne Project Menn				Haw		505-3			15.0	211					Edit Sch													
Green CTB Servative HEAL No. CE CE CE CE CE CE CE CE CE C	Sizor S. 44, S. Menne Project Name: Green (TB) WW 88210 -330-7876 Monde Frido Level 4 (Full Validation) -350-7876 Matrix Sample Name Sun-4-C Sun-4-C Sun-4-C Sun-7-C				901		e.		10								100											.s	
Green CTB Screen	Standard Rush 3 Aay Project Name: Proj				4		57)							2.4.0.7	7.0	Section 1	46.7											marl	
Green CTB Green CTB Scl Sont Servative HEAL CE CO CE CO Age Gain That Bate Gain	A Enquished Standard Rush Schan Standard Creen CTB NW 8821 NW 8821 NW 8821 Sampler Manager: Az Compliance Project Manager: Container Preservative HEAL Stw. 5 - C Stw. 7 - C S								()	100	8) 2	T	T /	18	TM	/ X∃	ТЯ							-	-	-		- Re	
			□ Rush			Project #:			Project Manager:	-	The same	Sampler: M. Charl			2	4.0	Type	T	600 1 1	200	600	500)				100	Mia, Date	^
Client: Lvc Mailing Address Availing Address Phone #: 3/15 CAVOC Package Candard Candar			lier		Maili	<	1	hon	mai	SAVO	St	Accre	Z] El	N		Date	QC 8010	-		-	-						Date: $ q/\omega $	Date:



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

January 21, 2020

Michael Gant Lucid Energy Delaware 201 South 4th St. Artesia, NM 88210

TEL: (575) 513-8988

FAX

RE: Mean Green CTB OrderNo.: 2001677

Dear Michael Gant:

Hall Environmental Analysis Laboratory received 4 sample(s) on 1/17/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

CLIENT:

Analytical Report

Lab Order: **2001677**

Date Reported: 1/21/2020

Hall Environmental Analysis Laboratory, Inc.

Lucid Energy Delaware Lab Order: 2001677

Project: Mean Green CTB

Lab ID: 2001677-001 **Collection Date:** 1/14/2020 1:10:00 PM

Client Sample ID: SW-8-C Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: CAS

Chloride 550 60 mg/Kg 20 1/20/2020 3:10:48 PM 49925

Lab ID: 2001677-002 **Collection Date:** 1/14/2020 1:15:00 PM

Client Sample ID: B-8-C-4' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: CAS

Chloride 1200 60 mg/Kg 20 1/20/2020 3:23:08 PM 49925

Lab ID: 2001677-003 **Collection Date:** 1/14/2020 1:20:00 PM

Client Sample ID: SW-9-C Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

 EPA METHOD 300.0: ANIONS
 Analyst: CAS

 Chloride
 500
 60
 mg/Kg
 20
 1/20/2020 4:00:12 PM
 49925

Lab ID: 2001677-004 **Collection Date:** 1/14/2020 1:25:00 PM

Client Sample ID: B-9-C-5' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: CAS

Chloride ND 60 mg/Kg 20 1/20/2020 4:12:33 PM 49925

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

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 1 of 2

Hall Environmental Analysis Laboratory, Inc.

WO#: **2001677 21-Jan-20**

Client: Lucid Energy Delaware
Project: Mean Green CTB

Sample ID: MB-49925 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 49925 RunNo: 65933

Prep Date: 1/20/2020 Analysis Date: 1/20/2020 SeqNo: 2264389 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-49925 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 49925 RunNo: 65933

Prep Date: 1/20/2020 Analysis Date: 1/20/2020 SeqNo: 2264390 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.4 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 Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

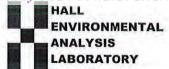
E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 2



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

Cli	ent Name:	LUCID ENE	RGY DELAN	W Work	Order Numb	er: 200	1677			RcptNo:	1
Red	ceived By:	Leah Baca	i	1/17/202	20 9:05:00 A	M		Lash	Bue	4	
Cor	mpleted By:	Isaiah Ort	iz	1/17/202	20 9:41:14 /	M		I)Bac ~ C	24	
Rev	viewed By:	46 11	17/20								
Cha	ain of Cus	tody									
1. 1	s Chain of C	ustody suffici	ently complet	e?		Yes	~	No		Not Present	
2. 1	low was the	sample deliv	ered?			Cou	rier				
Lo	g In										
24.7		npt made to c	ool the samp	les?		Yes	V	No	П	NA □	
4. v	Vere all sam	ples received	at a tempera	ture of >0° C t	o 6.0°C	Yes	~	No		NA 🗆	
5. 8	Sample(s) in	proper contai	ner(s)?			Yes	V	No			
6. S	ufficient sam	ple volume fo	or indicated to	est(s)?		Yes	~	No			
7. A	re samples (except VOA	and ONG) pro	operly preserve	d?	Yes	~	No			
8. V	Vas preserva	tive added to	bottles?			Yes		No	V	NA 🗆	
9. R	eceived at le	east 1 vial with	n headspace	<1/4" for AQ V	OA?	Yes		No		NA 🗹	
10. V	Vere any sar	mple containe	rs received b	roken?		Yes		No	~		
412.13										# of preserved bottles checked	
		ork match bot ancies on cha		Ň		Yes	~	No		for pH:	12 unless noted)
				n of Custody?		Yes	~	No		Adjusted?	TE dilloss (lates)
		t analyses we				Yes	~	No			C. Loren
14.V	Vere all holdi	ng times able	to be met?			Yes	~	No		Checked by:	R 1/17/20
		ling (if app									
				with this order?		Yes		No		NA 🗸	
	Person	Notified:		·	Date:						
	By Who				Via:	eM	ail 🗆	Phone	Fax	In Person	
	Regard			the state of the s	3/12/			Districtive (L.			
	Client I	nstructions:									
16.	Additional re	marks:									
17	Cooler Info	rmation									
44.	Cooler No	100000000000000000000000000000000000000	Condition	Seal Intact	Seal No	Seal D	ate	Signed	Ву	/ III	
	1	3.1	Good	Not Present							



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

March 09, 2020

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

RE: Mean Green CTB OrderNo.: 2003118

Dear Michael Gant:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/3/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Project:

CLIENT: Lucid Energy Delaware

Analytical Report

Lab Order **2003118**

Date Reported: 3/9/2020

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: B-10-C-5

Mean Green CTB Collection Date: 2/26/2020 1:00:00 PM

Lab ID: 2003118-001 **Matrix:** SOIL **Received Date:** 3/3/2020 9:00:00 AM

Analyses	Result	RL Qı	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: JMT
Chloride	1500	61	mg/Kg	20	3/6/2020 8:51:24 PM	50942

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

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 1 of 2

Hall Environmental Analysis Laboratory, Inc.

WO#: **2003118**

09-Mar-20

Client: Lucid Energy Delaware
Project: Mean Green CTB

Sample ID: MB-50942 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 50942 RunNo: 67101

Prep Date: 3/6/2020 Analysis Date: 3/6/2020 SeqNo: 2310564 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-50942 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 50942 RunNo: 67101

Prep Date: 3/6/2020 Analysis Date: 3/6/2020 SeqNo: 2310565 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.8 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 Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

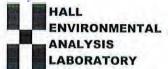
E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 2



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

ANALYSIS

LABORATORY

Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Client Name: LUCID ENERGY DELAW	Work Order Numb	er: 200	3118			RcptNo: 1
Received By: Desiree Dominguez	3/3/2020 9:00:00 AN	И		D	2	
Completed By: Leah Baca	3/4/2020 8:55:38 AN	Λ		1.1	Par	
Reviewed By: JR 314/20				1 car	Julian	
Chain of Custody						
1. Is Chain of Custody sufficiently complete?		Yes	~	No		Not Present
2. How was the sample delivered?		Cou	rier			
Log In						
3. Was an attempt made to cool the samples	\$?	Yes	~	No		NA 🗆
4. Were all samples received at a temperatur	re of >0° C to 6.0°C	Yes	V	No		NA 🗆
5. Sample(s) in proper container(s)?		Yes	V	No		
6. Sufficient sample volume for indicated test	(s)?	Yes	~	No		
7. Are samples (except VOA and ONG) prope		Yes	~	No		
8. Was preservative added to bottles?		Yes		No	V	NA. 🗆
9. Received at least 1 vial with headspace <1	/4" for AQ VOA?	Yes		No		NA 🗹
10. Were any sample containers received brok	ken?	Yes		No	~	
						# of preserved bottles checked
11. Does paperwork match bottle labels?		Yes	V	No		for pH: (<2 or >12 unless noted)
(Note discrepancies on chain of custody) 12. Are matrices correctly identified on Chain of	of Custody?	Yes	~	No		Adjusted?
13, Is it clear what analyses were requested?	or ouslody:	Yes	V	20.00		
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes	V	No		Checked by: DAD 3/4/20
Special Handling (if applicable)						
15. Was client notified of all discrepancies with	h this order?	Yes		No		NA 🗹
Person Notified:	Date:				_	
By Whom:	Via:	eM	ail 🗌	Phone [Fax	☐ In Person
Regarding:				-1		
Client Instructions:						
16. Additional remarks:						
17. Cooler Information						
	Seal Intact Seal No	Seal D	ate	Signed	Ву	
1 3.4 Good						

Chain-of-Custody Record	Turn-Around Time:	TATILLE THE TANK TO SHALL THE TANK THE
Client: (Jucio) Energy (2100)	☑ Standard □ Rush	ANALYSTS LABORATORY
3	Project Name:	www.hallenvironmental.com
Mailing Address:	Mran Green CIB	4901 Hawkins NE - Albuquerque, NM 87109
	Project #:	
Phone #: 314-680-1596		Inal
email or Fax#:	Project Manager:	*O
QA/QC Package:	Michael (Sant	
AZ Con	Sample: Michael Michael	282 ו 382 (1) 2700 10 ג. רו
	-	\ 08\\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
(bd/	olers: ((GR stals stals (O ₃ .
	Cooler Temp(including cF): $3,2+0.2=3.4$ (°C)	MTFD definition of the strict
į.	Container Preservative HEAL No.	PH:80 081 P PAHs E 2CRA (1) F, E
Time Matrix Sample Name		88 88 8 B B B B
0250 3 15-10-C-5	-DT - 200	<
Date: Time: Relinatished by:	Received by: War Time	Bomarke
501100	M/ 3/2/20	Nellidiks.
Date: Time: Relinquished by:	Date	
111/18/18	20	00



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

March 20, 2020

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

RE: Mean Green CTB OrderNo.: 2003610

Dear Michael Gant:

Hall Environmental Analysis Laboratory received 6 sample(s) on 3/13/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2003610**Date Reported: **3/20/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Client Sample ID: SW-10-C

 Project:
 Mean Green CTB
 Collection Date: 3/11/2020 2:20:00 PM

 Lab ID:
 2003610-001
 Matrix: SOIL
 Received Date: 3/13/2020 8:24:00 AM

 Analyses
 Result
 RL Qual Units
 DF
 Date Analyzed

 EPA METHOD 300.0: ANIONS
 Analyst: JMT

 Chloride
 ND
 60
 mg/Kg
 20
 3/18/2020 11:38:59 PM

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

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 1 of 10

Analytical Report
Lab Order 2003610

Date Reported: 3/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Client Sample ID: SW-11-C

 Project:
 Mean Green CTB
 Collection Date: 3/11/2020 2:25:00 PM

 Lab ID:
 2003610-002
 Matrix: SOIL
 Received Date: 3/13/2020 8:24:00 AM

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed

 EPA METHOD 300.0: ANIONS
 Analyst: JMT

 Chloride
 ND
 60
 mg/Kg
 20
 3/19/2020 12:16:01 AM

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

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 2 of 10

Analytical Report
Lab Order 2003610

Date Reported: 3/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Client Sample ID: SW-12-C

 Project:
 Mean Green CTB
 Collection Date: 3/11/2020 2:30:00 PM

 Lab ID:
 2003610-003
 Matrix: SOIL
 Received Date: 3/13/2020 8:24:00 AM

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed

 EPA METHOD 300.0: ANIONS
 Analyst: JMT

 Chloride
 ND
 61
 mg/Kg
 20
 3/19/2020 12:28:22 AM

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

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 3 of 10

Analytical Report
Lab Order 2003610

Date Reported: 3/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware

Project: Mean Green CTB

Lab ID: 2003610-004

Client Sample ID: B-11-C-6'

Collection Date: 3/11/2020 2:15:00 PM

Received Date: 3/13/2020 8:24:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	3/19/2020 4:12:57 PM

Matrix: SOIL

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

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Analytical Report

Lab Order **2003610**Date Reported: **3/20/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Client Sample ID: HA-6-2'

 Project:
 Mean Green CTB
 Collection Date: 3/11/2020 2:35:00 PM

 Lab ID:
 2003610-005
 Matrix: SOIL
 Received Date: 3/13/2020 8:24:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	3/16/2020 7:26:54 PM
Toluene	ND	0.047	mg/Kg	1	3/16/2020 7:26:54 PM
Ethylbenzene	ND	0.047	mg/Kg	1	3/16/2020 7:26:54 PM
Xylenes, Total	ND	0.094	mg/Kg	1	3/16/2020 7:26:54 PM
Surr: 4-Bromofluorobenzene	92.8	80-120	%Rec	1	3/16/2020 7:26:54 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	3/19/2020 4:25:18 PM

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

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

Page 5 of 10

Project:

Lab ID:

CLIENT: Lucid Energy Delaware

2003610-006

Mean Green CTB

Analytical Report

Lab Order **2003610**Date Reported: **3/20/2020**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: HA-7-2'

Collection Date: 3/11/2020 2:40:00 PM

Received Date: 3/13/2020 8:24:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	3/17/2020 9:41:45 PM
Toluene	ND	0.049	mg/Kg	1	3/17/2020 9:41:45 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/17/2020 9:41:45 PM
Xylenes, Total	ND	0.098	mg/Kg	1	3/17/2020 9:41:45 PM
Surr: 4-Bromofluorobenzene	87.6	80-120	%Rec	1	3/17/2020 9:41:45 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	3/19/2020 4:37:39 PM

Matrix: SOIL

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

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2003610 20-Mar-20**

Client: Lucid Energy Delaware
Project: Mean Green CTB

Sample ID: MB-51199 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 51199 RunNo: 67386

Prep Date: 3/18/2020 Analysis Date: 3/18/2020 SeqNo: 2325416 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-51199 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 51199 RunNo: 67386

Prep Date: 3/18/2020 Analysis Date: 3/18/2020 SeqNo: 2325417 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 92.4 90 110

Sample ID: MB-51212 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 51212 RunNo: 67421

Prep Date: 3/19/2020 Analysis Date: 3/19/2020 SeqNo: 2326742 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

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 Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

0.89

0.90

WO#: **2003610**

20-Mar-20

Client: Lucid Energy Delaware
Project: Mean Green CTB

Sample ID: mb-51097 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 51097 RunNo: 67331

Prep Date: 3/13/2020 Analysis Date: 3/16/2020 SeqNo: 2320543 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Benzene ND 0.025

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

 Surr: 4-Bromofluorobenzene
 0.86
 1.000
 85.8
 80
 120

1.000

1.000

Sample ID: LCS-51097 SampType: LCS TestCode: EPA Method 8021B: Volatiles Batch ID: 51097 Client ID: LCSS RunNo: 67331 Prep Date: 3/13/2020 Analysis Date: 3/16/2020 SeqNo: 2320544 Units: mg/Kg **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual 1.000 0.90 0.025 O 90.1 80 120 Benzene Toluene 0.93 0.050 1.000 0 93.3 80 120 Ethylbenzene 0.95 0.050 1.000 0 95.4 80 120 Xylenes, Total 2.9 0.10 3.000 0 96.2 80 120

Sample ID: mb-51093 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 51093 RunNo: 67331 Prep Date: Analysis Date: 3/16/2020 SeqNo: 2320567 Units: %Rec 3/13/2020 SPK value SPK Ref Val Result **PQL** %REC LowLimit HighLimit %RPD **RPDLimit** Qual

89.4

90.1

80

80

120

120

Sample ID: LCS-51093 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 51093 RunNo: 67331 Prep Date: SeqNo: 2320568 3/13/2020 Analysis Date: 3/16/2020 Units: %Rec SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual

Surr: 4-Bromofluorobenzene 0.92 1.000 91.9 80 120

Sample ID: mb-51119 SampType: MBLK TestCode: EPA Method 8021B: Volatiles
Client ID: PBS Batch ID: 51119 RunNo: 67350

Prep Date: 3/16/2020 Analysis Date: 3/18/2020 SeqNo: 2322879 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Benzene ND 0.025

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

Surr: 4-Bromofluorobenzene

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analysis Laboratory, Inc.

0.88

WO#: 2003610

20-Mar-20

Client: Lucid Energy Delaware **Project:** Mean Green CTB

Sample ID: mb-51119 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: **PBS** Batch ID: 51119 RunNo: 67350

Prep Date: 3/16/2020 Analysis Date: 3/18/2020 SeqNo: 2322879 Units: mg/Kg

Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: 4-Bromofluorobenzene 1.000

88.4

80

120

Sample ID: LCS-51119 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 51119 RunNo: 67350

Prep Date: 3/16/2020 Analysis Date: 3/18/2020 SeqNo: 2322880 Units: mg/Kg

SPK value SPK Ref Val **RPDLimit** Analyte Result PQL %REC LowLimit HighLimit %RPD Qual Benzene 0.92 0.025 1.000 0 91.6 80 120 Toluene 0.95 0.050 1.000 0 95.1 80 120 0 Ethylbenzene 0.97 0.050 1.000 96.9 80 120 Xylenes, Total 2.9 0.10 3.000 0 97.6 80 120 Surr: 4-Bromofluorobenzene 1.000 95.0 80 120 0.95

Sample ID: 2003610-006ams TestCode: EPA Method 8021B: Volatiles SampType: MS

Client ID: HA-7-2' Batch ID: 51119 RunNo: 67350

Prep Date: 3/16/2020 Analysis Date: 3/17/2020 SeqNo: 2322882 Units: mg/Kg **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Result Qual Benzene 0.83 0.023 0.9276 0 89.7 78.5 119 0 Toluene 0.87 0.046 0.9276 93.8 75.7 123 0.90 0.046 0.9276 0 96.8 74.3 126 Ethylbenzene Xylenes, Total 2.7 0.093 2.783 0 97.9 72.9 130 Surr: 4-Bromofluorobenzene 0.82 0.9276 88.7 80 120

Sample ID: 2003610-006amsd SampType: MSD TestCode: EPA Method 8021B: Volatiles

Client ID: HA-7-2' Batch ID: 51119 RunNo: 67350

Analysis Date: 3/17/2020 SeqNo: 2322883 Prep Date: 3/16/2020 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** PQL LowLimit HighLimit Qual Analyte Result 0.9542 Benzene 0.84 0.024 0 88.5 78.5 119 1.54 20 Toluene 0.88 0.048 0.9542 0 92.6 75.7 123 1.48 20 Ethylbenzene 0.90 0.048 0.9542 0 94.6 74.3 126 0.492 20 0 1.30 20 Xylenes, Total 2.8 0.095 2.863 96.4 72.9 130 Surr: 4-Bromofluorobenzene 0.88 0.9542 91.7 80 120 0 0

Sample ID: mb-51153 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: **PBS** Batch ID: 51153 RunNo: 67382

Prep Date: 3/17/2020 Analysis Date: 3/18/2020 SeqNo: 2324686 Units: %Rec

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
- Η Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range Е
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2003610**

20-Mar-20

Client: Lucid Energy Delaware
Project: Mean Green CTB

Sample ID: mb-51153 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 51153 RunNo: 67382

Prep Date: 3/17/2020 Analysis Date: 3/18/2020 SeqNo: 2324686 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: 4-Bromofluorobenzene 0.90 1.000 89.7 80 120

Sample ID: Ics-51153 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 51153 RunNo: 67382

Prep Date: 3/17/2020 Analysis Date: 3/18/2020 SeqNo: 2324687 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: 4-Bromofluorobenzene 0.88 1.000 88.1 80 120

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 Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

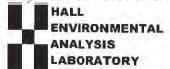
E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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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 DELAW	Work Order Nurr	ber: 200	3610		RoptNo: 1	
Received By: Juan Rojas	3/13/2020 8:24:00	AM		Grandy &		
Completed By: Erin Melendrez	3/13/2020 10:22:2	9 AM		Must and	——	
Reviewed By: Y 6 3/13/20				, , ,		
Chain of Custody						
1. Is Chain of Custody sufficiently complete?		Yes	V	No 🗆	Not Present	
2. How was the sample delivered?		Cou	ier.			
Log In						
3. Was an attempt made to cool the samples?		Yes	V	No 🗌	NA 🗆	
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes	V	No 🗌	NA 🗆	
5. Sample(s) in proper container(s)?		Yes	V	No 🗆		
6. Sufficient sample volume for indicated test(s))?	Yes	V	No 🗆		
7. Are samples (except VOA and ONG) properly	y preserved?	Yes	V	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 broker	n?	Yes		No 🔽	# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes	V	No 🗆	bottles checked for pH: (<2 op>12	unless noted)
12. Are matrices correctly identified on Chain of 0	Custody?	Yes	~	No 🗆	Adjusted?	
13. Is it clear what analyses were requested?		Yes	V	No 🗌		
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes	V	No 🗆	Checked by: DAC	3/13/20
Special Handling (if applicable)						
15. Was client notified of all discrepancies with t	his order?	Yes		No 🗆	NA 🗹	
Person Notified:	Date	: [· ·	
By Whom:	Via:	□ еМа	ail 🔲	Phone Fax	In Person	
Regarding:	***************************************		******			
Client Instructions:			MANA SAMBIONASCO			
16. Additional remarks:						
17. Cooler Information Cooler No Temp °C Condition Se 1 1.6 Good	eal Intact Seal No	Seal D	ate	Signed By	**************************************	

Chain-of-Custody Record	Turn-Around Time: 5 pxy ☐ Standard □ Rush	HALL ENVIRONMENTAL
-		AINTERNITOR PROPERTY
Mailing Address:	Mean Caren CTB	www.nallenvironmental.com
	Project #:	Tel 505-345-3075 Eav 505 245 4407
Phone #: 314-680-1596		Analysis Request
email or Fax#: MM2+Fit @/wid-everay.com	Project Manager:	†C
QA/QC Package:		
:	Sampler: M.	32 PS () () ()
		0 / 1 / C
□ EDD (Type)	olers: (AOV
	Cooler Temp(including CF): 1 - 0. 5 (°C)	15D(estici letho y 83 yr, N r, N
Date Time Matrix Sample Name	Container Preservative HEAL No.	081 PF:80 MB GB (MPS) PF: F: F
5		8 8 8 8
J-11-05 1 SM-11-C	-002	
	-003	\(\sigma\)
1415 B-11-C-6.	P00-	
1435 HA-6-2'	500-	X
1440 HK-7-2	1 -0000	X
Date: Time: Relinquished by; CSR 1530 Mulmil IIII	Received by: Via: Date Time R	Remarks:
Date; Time: Relinquished by:		Jac I