District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources 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	NAPP2111128863
District RP	
Facility ID	
Application ID	

# **Release Notification**

# **Responsible Party**

Responsible Party Lucid Energy Delaware OGRID 372422		
Contact Name Michael Gant Contact Telephone 3143307876		
Contact email     MGant@lucid-energy.com     Incident # (assigned by OCD)		
Contact mailing address 201 South 4th Street Artesia NM 88210		

# **Location of Release Source**

Latitude 32.443943°

Longitude -103.515836°

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Fruitbasket Lateral	Site Type Natural gas pipeline
Date Release Discovered 3/19/21	API# (if applicable)

Unit Letter	Section	Township	Range	County
М	30	21S	34E	Lea

Surface Owner: State State Federal Tribal Private (Name: New Mexico State Land Office

# Nature and Volume of Release

al(s) Released (Select all that apply and attach calculations or speci-	fic justification for the volumes provided below)
Volume Released (bbls)	Volume Recovered (bbls)
Volume Released (bbls)	Volume Recovered (bbls)
Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Volume Released (bbls)	Volume Recovered (bbls)
Volume Released (Mcf) 2296	Volume Recovered (Mcf) <sub>0</sub>
Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
<5 Bbls	<5 Bbls
e Fruitbasket Lateral pig receiver PRV. 11	ions caused an overpressure event to occur he PRV popped off, as designed, and st of liquids to the immediate surface area.
	Volume Released (bbls)         Volume Released (bbls)         Is the concentration of dissolved chloride in the produced water >10,000 mg/l?         Volume Released (bbls)         Volume Released (bbls)         Volume Released (bbls)         Volume Released (Mcf) 2296         Volume/Weight Released (provide units)         <5 Bbls

Received	by C	OCD: 1/24/	2022	2:53:37	<sup>PM</sup> Mate of	<b>Ъ</b> Т	
form C-	<u> </u>				State of	New	Mex <sub>1</sub> co

Page	2
1 age	4

#### **Oil Conservation Division**

Incident ID	NAPP2111128863
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☑ Yes □ No	If YES, for what reason(s) does the responsible party consider this a major release? The volume of natural gas released to atmosphere designates this as a major release.			
Immediate notice was	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? s not provided to OCD, as Lucid did not have immeidate and accurate volume calculations ume loss had been confirmed Lucid EHSR immediately notified OCD and NMSLO personnel			
Initial Response				

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

 $\checkmark$  The source of the release has been stopped.

 $\bigvee$  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 remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Drinted Names WIGHAEI Gall	Drinted Name:	Michael Gant	
----------------------------	---------------	--------------	--

Signature: <u>MGant</u>

email: MGant@lucid-energy.com

Title: Environmental Coordinator Date: 4/16/21

Telephone: 3143307876

OCD Only

Received by: Ramona Marcus

Date: 5/9/2021

District I 1625 N. French Dr., Hobbs, NM 88240

District II

District IV

Phone:(575) 393-6161 Fax:(575) 393-0720

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

Phone:(505) 334-6178 Fax:(505) 334-6170

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

District III 1000 Rio Brazos Rd., Aztec, NM 87410 CONDITIONS

Action 24816

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

#### CONDITIONS OF APPROVAL

Operator:				OGRID:	Action Number:	Action Type:
LUCIE	D ENERGY DELAWARE, LLC	3100 Mckinnon Suite 800	Dallas, TX75201	372422	24816	C-141
				·		
OCD Reviewer	Condition					
rmarcus	When submitting future reports regar	ding this release, please submit the calcu	lations used or specific justification	for the volumes reported on the in	itial C-141	

**Received by OCD: 1/24/2022 2:53:37 PM** Form C-141 State of New Mexico

Oil Conservation Division

	<b>Page 4 of 4</b>
Incident ID	NAPP2111128863
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.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>51-100</u> (ft bgs)
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 <b>not</b> 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 vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.  $\overrightarrow{V}$  Field data
- $\checkmark$  Data table of soil contaminant concentration data
- $\overline{\mathbf{\nabla}}$  Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Received by OCD: 1/24/2022	2:53:37 PM State of New Mexico			<b>Page 5 of 41</b>
Form C-141			Incident ID	NAPP2111128863
Page 4	Oil Conservation Division		District RP	
			Facility ID	
			Application ID	
regulations all operators are requ public health or the environment failed to adequately investigate a addition, OCD acceptance of a C and/or regulations. Printed Name: Michael G		ifications and perform co OCD does not relieve the eat to groundwater, surfa f responsibility for compl 	enterior contractions for release operator of liability shifts and the contract of the contrac	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only				
Received by:		Date:		

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Oil Conservation Division

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Incident ID	NAPP2111128863	
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.

<u>Closure Report Attachment Checklist</u>: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

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

WSP USA

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

January 20, 2022

District I New Mexico Oil Conservation Division 1625 North French Drive Hobbs, New Mexico 88240

#### RE: Closure Request Fruitbasket Lateral Incident Number nAPP2111128863 Lea County, New Mexico

To Whom it May Concern:

WSP USA Inc. (WSP), on behalf of Lucid Energy Group (Lucid), is pleased to present the following Closure Request detailing site assessment and delineation activities at the Fruitbasket Lateral (Site) located in Unit M, Section 30, Township 21 South, Range 34 East, in Lea County, New Mexico (Figure 1). The purpose of the site assessment and delineation activities was to assess the presence or absence of impacts to soil following a release of natural gas at the Site. Based on the delineation activities and results of the soil sampling event, Lucid is submitting this Closure Request, describing site assessment and delineation activities that has occurred and requesting no further action (NFA) for Incident Number nAPP2111128863.

#### **RELEASE BACKGROUND**

On March 19, 2021, upstream overpressure and upset field conditions caused an overpressure event to occur at the Site's pig receiver Pressure Relief Valve (PRV) and resulted in the release of 2,296 thousand cubic feet (MCF) of natural gas and less than 5 barrels (bbls) of pipeline liquids, of which no fluids were immediately recovered. Lucid reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Form C-141 on April 16, 2021 and was assigned Incident Number nAPP2111128863.

#### SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be between 51 and 100 feet below ground surface (bgs) based a United States Geological Survey (USGS) well number 322641103311201, which is located 0.27 miles west of the site. The total depth of the well is 68 feet bgs and the depth to groundwater was recorded at 55.66 feet bgs. The referenced well record is included as Attachment 1. While depth to groundwater appears to be between 51 and



District I Page 2

100 feet bgs for the Site, the age of the last water well measurement does not meet the NMOCD interpretated guidance (no older than 25 years) of estimation of depth to water.

The closest continuously flowing or significant watercourse to the Site is an intermittent streambed, located approximately 5,663 feet west of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is likely not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

#### **CLOSURE CRITERIA**

There do not appear to be any sensitive receptors related to the Site; however, the age of last water well measurement is greater 25 years old and therefore, the following NMOCD Table 1 Closure Criteria apply:

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

#### SITE ASSESMENT ACTIVITIES

On December 7, 2021, WSP personnel visited the Site to conduct site assessment activities by evaluating the subject release area based on information provided on the Form C-141 and visual observations. WSP reviewed and verified the Form C-141 incident description (release source and release location).

#### **DELINEATION AND SOIL SAMPLING ACTIVITIES**

On December 17, 2021, WSP personnel conducted delineation activities to assess the presence or absence of impacts to soil associated with the subject release. Utilizing a hand auger, three delineation soil samples (BH01 through BH03) were advanced inside the subject release extent. Delineation activities were directed by field screening soil samples for volatile aromatic hydrocarbons using a calibrated photoionization detector (PID) and chloride using Hach<sup>®</sup> chloride QuanTab<sup>®</sup> test strips. A total of two soil samples were collected from each of the borehole locations: the sample with the highest observed field screening concentrations (approximately 1 foot bgs) and the greatest depth (ranging from 2 to 3 feet bgs) before reaching auger refusal. The delineation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler initials, method of analysis, and immediately placed on ice. The soil



District I Page 3

samples were transported at or below 4 degrees Celsius (°C), under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH following EPA Method 8015M/D; and chloride following EPA Method 300.0. The delineation sample locations were mapped utilizing a handheld GPS unit and are presented on Figure 2. Field screening results and observations for the delineation soil samples were recorded on lithologic/soil sampling logs and are presented in Attachment 2. Photographic documentation is provided in Attachment 3.

#### LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all delineation soil samples indicated concentrations of benzene, BTEX, TPH and chloride are compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Attachment 4.

#### **CLOSURE REQUEST**

Site assessment and delineation activities were conducted by WSP at the Site to address the March 19, 2021 release of natural gas and pipeline fluids. Laboratory analytical results for all delineation soil samples indicated benzene, BTEX, TPH, and chloride concentrations, were compliant with the Closure Criteria. Based on the delineation soil sample analytical results, no further remediation appears required. As such, Lucid respectfully requests NFA for Incident Number nAPP2111128863.

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

Sincerely,

WSP USA Inc.

-S. Holy

Joseph S. Hernandez Consultant, Geologist

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

# vsp

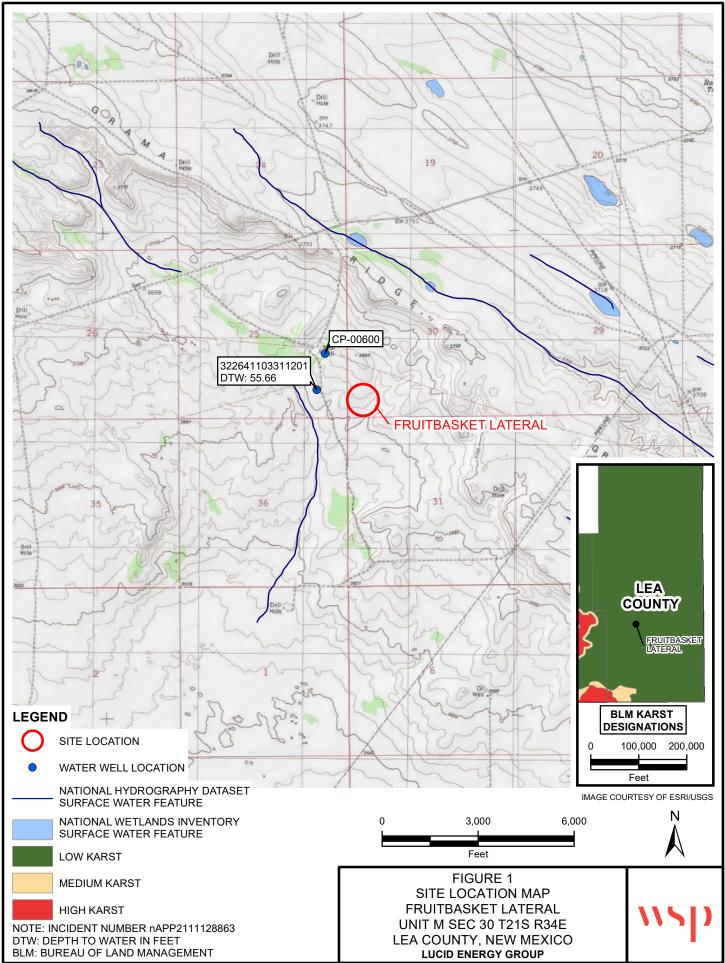
District I Page 4

cc: Michael Gant, Lucid New Mexico State Land Office NMOCD

#### Attachments:

- Figure 1 Site Location Map
- Figure 2 Delineation Soil Sample Locations
- Table 1Soil Analytical Results
- Attachment 1 Referenced Well Record
- Attachment 2 Lithologic/Soil Sampling Logs
- Attachment 3 Photographic Log
- Attachment 4 Laboratory Analytical Reports

# FIGURES



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# TABLES

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#### Table 1

#### Soil Analytical Results Fruitbasket Lateral Incident Number nAPP2111128863 Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Clo	osure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	NE	100	600
Delineation Soil Sam	ples									
BH01	12/17/2021	1	< 0.019	< 0.08	<3.8	<10	<50	<10	<50	<60
BH01A	12/17/2021	2	<0.019	<0.08	<3.8	<10	<50	<10	<50	76
BH02	12/17/2021	1	< 0.015	<0.06	<3.0	<9.7	<49	<9.7	<49	<60
BH02A	12/17/2021	2.5	< 0.020	<0.08	<4.1	<9.4	<47	<9.4	<47	<60
BH03	12/17/2021	1	< 0.017	<0.07	<3.4	<9.8	<49	<9.8	<49	<61
BH03A	12/17/2021	3	< 0.023	<0.09	<4.6	<9.9	<49	<9.9	<49	<60

NMOCD - New Mexico Oil Conservation Division

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

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

NMAC - New Mexico Administrative Code

NE - Not Established

#### Notes

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - motor oil range organics

#### Recained by OGP: 1/24/2022 2:53:37 PM

#### USGS Groundwater for USA: Water Levels -- 1 sites

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Groundwater V United States V GO	Date	e	Time	? Water- level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	
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Click to hideNews Bulletins

- Explore the NEW USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News 🔊

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

#### Search Results -- 1 sites found

Agency code = usgs

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 322641103311201 21S.33E.25.42322

Lea County, New Mexico

Latitude 32°26'41", Longitude 103°31'12" NAD27

Land-surface elevation 3,660 feet above NAVD88

The depth of the well is 68 feet below land surface. This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data

Tab-separated data

Graph of data

Reselect period

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1968-03-28		D	62610		3601.86	NGVD29	1	Z			
1968-03-28		D	62611		3603.47	NAVD88	1	Z			
1968-03-28		D	72019	56.53			1	Z			
971-02-04		D	62610		3599.44	NGVD29	1	Z			
971-02-04		D	62611		3601.05	NAVD88	1	Z			
971-02-04		D		58.95			1	Z			
972-09-22		D			3601.86	NGVD29	1	Z			
972-09-22		D			3603.47	NAVD88	1	Z			
972-09-22		D		56.53			1	Z			
976-12-16		D			3600.81	NGVD29	1	Z			
976-12-16		D		57 50	3602.42	NAVD88	1	Z			
976-12-16 981-03-10		D		57.58	2602.26	NOVER	1	Z			
981-03-10		D			3602.36 3603.97	NGVD29 NAVD88	1	Z			
981-03-10		D		56.03	5005.97	NAVDOO	1	Z			
986-03-20		D		50.05	3602.73	NGVD29	1	Z			
986-03-20 986-03-20		D			3604.34	NGVD29	1	Z			
986-03-20		D		55.66	5501.51	10/10000	1	Z			

		Explanation
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface

#### USGS Groundwater for USA: Water Levels -- 1 sites

Date	Time	? Water- level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
Measuring a				-	Not determine	d				
Source of m	easurement				Not determine	d				
Water-level	approval statu	S		А	Approved for	publication Proces	sing and review	w completed.		

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

#### Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

USA.gov

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2022-01-19 10:34:10 EST 0.26 0.24 nadww01

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			WSI	P USA Inc	<i>.</i>			BH or PH Name:		Date:
			508 West Carlsbad, N	Stevens	Street			BH01		12/17/2021
			Jarisbad, N	ew Mexic	0 88220			Site Name: Fruitbasket L		
		Cor	mpliance · Ei	ngineerin <u>g</u>	· Remedia	ation		RP or Incident Number:		
			-					WSP Job Number:	31403665.0	
			GIC / SOII			)G		Logged By: TC		Method: Hand Auger
Lat/Long: 32	.443904, -103	515856		Field Scree Chloride, P				Hole Diameter: 3"		Total Depth: 2'
Comments:				Chioride, P	ID			5		2
Commentar										
Moisture Content Chloride	(ppm) Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Li	ithology/Re	emarks
D <10	68 1.2	N	BH01		0	SPGP	Dry/No 9	taining/Doorly grade	d Fina arai	n cand with come small angular
D <10	68 1.2	N	BH01	- <sup>1</sup>	-  -	SPGP	gravel.	staining/Poorly graded	d Fine grai	n sand with some small angular
D <10	68 0.7	Ν		2'		GWGP	Dry/No S	Staining/Poorly graded No odor/Increase in		h increase in gravel and caliche le Auger refusal

.

									BH or PH Name:		Date:
				WS	P USA Inc	<b>;</b> .			BH02		12/17/2021
	15		(	508 West Carlsbad, N	stevens ew Mexic	street o 88220			Site Name: Fruitbasket	Lateral	12/17/2021
-		-							RP or Incident Number:		28863
		- C	Cor	mpliance · Ei	ngineering	· Remedia	ation		WSP Job Number:	31403665.0	
		LITH	OLOG	GIC / SOII	L SAMPI	LING LO	)G		Logged By: TC		Method: Hand Auger
Lat/Lo	ng: 32.4440				Field Scree				Hole Diameter:		Total Depth:
~					Chloride, P	ID			3"		2.5'
Comm	ents:										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Ι	_ithology/R	Remarks
D	<168	0.7	N	BH01	1'	0 - - -	SPGP	Dry/No S gravel.	staining/Poorly grad	ed Fine gra	ain sand with some small angular
D	<168	0.8	N		2'	-	GWGP	Dry/No S		ed sand wi No odor	th increase in gravel and caliche
D	<168	0.5	Ν		2.5'		SAA	Increase	in gravel made Aug	ger refusal	

				14/01					BH or PH Name:	Date:	
		I N		508 Wesi	<b>P USA Ind</b> t Stevens	;. Street			BH03	12/17/2021	
	1		(	508 Wesi Carlsbad, N	ew Mexic	0 88220			Site Name: Fruitbasket I	ateral	
			Cor	npliance · Ei	naineerina	· Remedia	ation		RP or Incident Number:	nAPP2111128863	
			001		igineening	Kenneuk			WSP Job Number:	31403665.005	
				GIC / SOII			)G		Logged By: TC	Method: Hand Auger	
Lat/Lo	ng: 32.4439	991, -103.5	159		Field Scree				Hole Diameter:	Total Depth:	
Comm	ents				Chloride, F	D			3"	3'	
Comm	ents.										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		L	thology/Remarks	
					1	0					
D	<168	1	N	BH01	1'	- - - -	SPGP	Dry/No S gravel.	taining/Light brown	tanPoorly graded Fine grain sand with s	some s
D	<168	0.7	N		2'	-	GWGP	Dry/No S		nt tan coat/Poorly graded sand with incr Io odor	ease
D	<168	0.2	Ν		3'		SAA	Increase	in gravel made Aug	er refusal	



	PHOTOGRAPHIC LOG	
Lucid Energy Group	Fruitbasket Lateral	31403665.005
	Lea County, New Mexico	

1       December 17, 2021         North view of the subject release area during delineation activities.       Image: Constraint of the subject release area during delineation activities.	Photo No.	Date	
I     2021       North view of the subject release     Image: Comparison of the subject release		December 17,	
	1		
area during delineation activities.	North view of t	he subject release	1
	area during deli	neation activities.	
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Released to Imaging: 2/10/2022 8:17:12 AM



December 27, 2021

Joseph S. Hernandez Lucid Energy 201 South 4th St. Artesia, NM 88210 TEL: FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

RE: Fruitbasket NAPP2111128863

OrderNo.: 2112C09

Dear Joseph S. Hernandez:

Hall Environmental Analysis Laboratory received 6 sample(s) on 12/21/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Lab Order 2112C09

Date Reported: 12/27/2021

CLIENT:	Lucid Energy
Project:	Fruitbasket NAPP2111128863
Lab ID:	2112C09-001

Client Sample ID: BH01-1' Collection Date: 12/17/2021 10:08:00 AM

Matrix: MEOH (SOIL)

Received Date: 12/21/2021 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	12/21/2021 1:47:01 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/21/2021 1:47:01 PM
Surr: DNOP	90.7	70-130	%Rec	1	12/21/2021 1:47:01 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	12/21/2021 6:24:33 PM
Surr: BFB	90.5	70-130	%Rec	1	12/21/2021 6:24:33 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.019	mg/Kg	1	12/21/2021 6:24:33 PM
Toluene	ND	0.038	mg/Kg	1	12/21/2021 6:24:33 PM
Ethylbenzene	ND	0.038	mg/Kg	1	12/21/2021 6:24:33 PM
Xylenes, Total	ND	0.077	mg/Kg	1	12/21/2021 6:24:33 PM
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	12/21/2021 6:24:33 PM
EPA METHOD 300.0: ANIONS					Analyst: LRN
Chloride	ND	60	mg/Kg	20	12/21/2021 1:48:14 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

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

Page 1 of 12

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# Hall Environmental Analysis Laboratory, Inc.

Lab Order 2112C09

Date Reported: 12/27/2021

**CLIENT:** Lucid Energy **Project:** Fruitbasket NAPP2111128863 2112C09-002 Lab ID:

Client Sample ID: BH01A-2' Collection Date: 12/17/2021 10:12:00 AM

Received Date: 12/21/2021 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORC	GANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	12/21/2021 1:57:54 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/21/2021 1:57:54 PM
Surr: DNOP	93.4	70-130	%Rec	1	12/21/2021 1:57:54 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	12/21/2021 7:34:45 PM
Surr: BFB	92.3	70-130	%Rec	1	12/21/2021 7:34:45 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.019	mg/Kg	1	12/21/2021 7:34:45 PM
Toluene	ND	0.038	mg/Kg	1	12/21/2021 7:34:45 PM
Ethylbenzene	ND	0.038	mg/Kg	1	12/21/2021 7:34:45 PM
Xylenes, Total	ND	0.076	mg/Kg	1	12/21/2021 7:34:45 PM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	12/21/2021 7:34:45 PM
EPA METHOD 300.0: ANIONS					Analyst: LRN
Chloride	76	61	mg/Kg	20	12/21/2021 2:00:39 PM

Matrix: MEOH (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

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

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**Analytical Report** 

# Hall Environmental Analysis Laboratory, Inc.

Lab Order 2112C09

Date Reported: 12/27/2021

<b>CLIENT:</b>	Lucid Energy
Project:	Fruitbasket NAPP2111128863
Lab ID:	2112C09-003

Client Sample ID: BH02-1' Collection Date: 12/17/2021 10:20:00 AM

Received Date: 12/21/2021 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: <b>JME</b>
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	12/21/2021 2:08:46 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/21/2021 2:08:46 PM
Surr: DNOP	109	70-130	%Rec	1	12/21/2021 2:08:46 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.0	mg/Kg	1	12/21/2021 9:08:38 PM
Surr: BFB	92.2	70-130	%Rec	1	12/21/2021 9:08:38 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.015	mg/Kg	1	12/21/2021 9:08:38 PM
Toluene	ND	0.030	mg/Kg	1	12/21/2021 9:08:38 PM
Ethylbenzene	ND	0.030	mg/Kg	1	12/21/2021 9:08:38 PM
Xylenes, Total	ND	0.060	mg/Kg	1	12/21/2021 9:08:38 PM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	12/21/2021 9:08:38 PM
EPA METHOD 300.0: ANIONS					Analyst: LRN
Chloride	ND	60	mg/Kg	20	12/21/2021 2:13:03 PM

Matrix: MEOH (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

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

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# Hall Environmental Analysis Laboratory, Inc.

Lab Order 2112C09

Date Reported: 12/27/2021

CLIENT:	Lucid Energy
Project:	Fruitbasket NAPP2111128863
Lab ID:	2112C09-004

Client Sample ID: BH02A-2.5' Collection Date: 12/17/2021 10:25:00 AM

Matrix: MEOH (SOIL) Received Date: 12/21/2021 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: <b>JME</b>
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	12/21/2021 2:19:37 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/21/2021 2:19:37 PM
Surr: DNOP	87.6	70-130	%Rec	1	12/21/2021 2:19:37 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	12/21/2021 10:18:50 PM
Surr: BFB	91.3	70-130	%Rec	1	12/21/2021 10:18:50 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.020	mg/Kg	1	12/21/2021 10:18:50 PM
Toluene	ND	0.041	mg/Kg	1	12/21/2021 10:18:50 PM
Ethylbenzene	ND	0.041	mg/Kg	1	12/21/2021 10:18:50 PM
Xylenes, Total	ND	0.081	mg/Kg	1	12/21/2021 10:18:50 PM
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	12/21/2021 10:18:50 PM
EPA METHOD 300.0: ANIONS					Analyst: LRN
Chloride	ND	60	mg/Kg	20	12/21/2021 2:25:28 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

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

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# Hall Environmental Analysis Laboratory, Inc.

Lab Order 2112C09

Date Reported: 12/27/2021

CLIENT:	Lucid Energy
Project:	Fruitbasket NAPP2111128863
Lab ID:	2112C09-005

Client Sample ID: BH03-1' Collection Date: 12/17/2021 11:41:00 AM

Received Date: 12/21/2021 8:00:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	12/22/2021 9:26:02 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/22/2021 9:26:02 AM
Surr: DNOP	98.3	70-130	%Rec	1	12/22/2021 9:26:02 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	12/21/2021 11:28:47 PM
Surr: BFB	90.5	70-130	%Rec	1	12/21/2021 11:28:47 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.017	mg/Kg	1	12/21/2021 11:28:47 PM
Toluene	ND	0.034	mg/Kg	1	12/21/2021 11:28:47 PM
Ethylbenzene	ND	0.034	mg/Kg	1	12/21/2021 11:28:47 PM
Xylenes, Total	ND	0.068	mg/Kg	1	12/21/2021 11:28:47 PM
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	12/21/2021 11:28:47 PM
EPA METHOD 300.0: ANIONS					Analyst: LRN
Chloride	ND	61	mg/Kg	20	12/21/2021 2:37:53 PM

Matrix: MEOH (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

н 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 interference S
- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 5 of 12

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2112C09

Date Reported: 12/27/2021

**CLIENT:** Lucid Energy **Project:** Fruitbasket NAPP2111128863 2112C09-006 Lab ID:

Client Sample ID: BH03A-3' Collection Date: 12/17/2021 11:49:00 AM

Matrix: MEOH (SOIL) Received Date: 12/21/2021 8:00:00 AM

Analyses	Result	RL (	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	BANICS					Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/22/2021 9:36:36 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/22/2021 9:36:36 AM
Surr: DNOP	75.8	70-130		%Rec	1	12/22/2021 9:36:36 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/21/2021 11:52:08 PM
Surr: BFB	133	70-130	S	%Rec	1	12/21/2021 11:52:08 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	12/21/2021 11:52:08 PM
Toluene	ND	0.046		mg/Kg	1	12/21/2021 11:52:08 PM
Ethylbenzene	ND	0.046		mg/Kg	1	12/21/2021 11:52:08 PM
Xylenes, Total	ND	0.093		mg/Kg	1	12/21/2021 11:52:08 PM
Surr: 4-Bromofluorobenzene	99.2	70-130		%Rec	1	12/21/2021 11:52:08 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	ND	60		mg/Kg	20	12/21/2021 2:50:18 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

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

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Client ID: LCSS

Analyte

Chloride

Prep Date: 12/21/2021

Batch ID: 64660

Analysis Date: 12/21/2021

PQL

1.5

15.00

Result

14

Hall Environme	ntal Analysis Labora	tory, Inc. WO#: 2112C0 27-Dec-2.
	Energy basket NAPP2111128863	
Sample ID: MB-64660	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 64660	RunNo: 84699
Prep Date: 12/21/2021	Analysis Date: 12/21/2021	SeqNo: 2979707 Units: mg/Kg
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND 1.5	
Sample ID: LCS-64660	SampType: Ics	TestCode: EPA Method 300.0: Anions

SPK value SPK Ref Val %REC LowLimit

0

RunNo: 84699

91.7

SeqNo: 2979708

Units: mg/Kg

110

HighLimit

90

RPDLimit

Qual

%RPD

#### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н 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 interference S
- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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# QC SUMMARY REPORT Hall Envi

Page	34	of 41	

	WO#:	2112C09	
vironmental Analysis Laboratory, Inc.		27-Dec-21	

Client: Lucid En	<i></i>	_							
Project: Fruitbas	ket NAPP211112886	3							
Sample ID: MB-64653	SampType: MBLI	<b>&lt;</b>	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 6465	3	R	unNo: 84	4681				
Prep Date: 12/21/2021	Analysis Date: 12/2	1/2021	S	eqNo: 29	978068	Units: mg/K	g		
Analyte	Result PQL S	PK 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	9.0	10.00		89.8	70	130			
Sample ID: LCS-64653	SampType: LCS		Test	Code: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch ID: 6465	3	R	unNo: 84	4681				
Prep Date: 12/21/2021	Analysis Date: 12/2	1/2021	S	eqNo: 29	978069	Units: mg/K	g		
Analyte	Result PQL S	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44 10	50.00	0	87.2	68.9	135			
Surr: DNOP	4.1	5.000		82.6	70	130			
Sample ID: LCS-64656	SampType: LCS		Test	Code: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch ID: 6465	6	R	unNo: 84	1722				
Prep Date: 12/21/2021	Analysis Date: 12/2	2/2021	S	eqNo: 29	979306	Units: mg/K	g		
Analyte	Result PQL S	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45 10	50.00	0	90.9	68.9	135			
Surr: DNOP	4.7	5.000		94.5	70	130			
Sample ID: MB-64656	SampType: MBLI	۲	Test	Code: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch ID: 6465	6	R	unNo: 84	4722				
Prep Date: 12/21/2021	Analysis Date: 12/2	2/2021	S	eqNo: 29	979307	Units: mg/K	g		
Analyte	Result PQL S	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10								
Motor Oil Range Organics (MRO)	ND 50								
Surr: DNOP	10	10.00		102	70	130			

#### Qualifiers:

- Value exceeds Maximum Contaminant Level. \*
- D Sample Diluted Due to Matrix
- Н 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 interference S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	cid Energy nitbasket NAPP2111128	863							
Sample ID: mb	SampType: MB	LK	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch ID: B8	4701	F	RunNo: <b>8</b> 4	4701				
Prep Date:	Analysis Date: 12	/21/2021	S	SeqNo: 29	978920	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (G Surr: BFB	RO) ND 5.0 940	1000		94.4	70	130			
Sample ID: 2.5ug gro Ics SampType: LCS TestCode: EPA Method 8015D: Gasoline Range									
Client ID: LCSS	Batch ID: B8	4701	F	RunNo: 84	4701				
Prep Date:	Analysis Date: 12	/21/2021	S	SeqNo: 29	978921	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (G Surr: BFB	RO) 24 5.0 1000	25.00 1000	0	94.3 104	78.6 70	131 130			
Sample ID: mb-II	SampType: <b>MB</b>	LK	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch ID: C8	4701		RunNo: 84			-		
Prep Date:	Analysis Date: 12	/21/2021	S	SeqNo: 29	978942	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (G Surr: BFB	RO) ND 5.0 930	1000		93.2	70	130			
Sample ID: 2.5ug gro	cs-II SampType: LC	s	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch ID: C8	4701	F	RunNo: 84	4701				
Prep Date:	Analysis Date: 12	/21/2021	S	SeqNo: 29	978943	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (G	RO) 22 5.0	25.00	0	90.0	78.6	131			
Surr: BFB	1000	1000		101	70	130			
Sample ID: 2112c09-0	3ams SampType: MS	;	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: BH02-1'	Batch ID: C8	4701	F	RunNo: <b>8</b> 4	4701				
Prep Date:	Analysis Date: 12	/21/2021	S	SeqNo: 29	978948	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (G	RO) 13 3.0	15.09	0	89.0	61.3	114			
Surr: BFB	610	603.5		102	70	130			
Sample ID: 2112c09-0	3amsd SampType: MS	D	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: BH02-1'	Batch ID: C8	4701	F	RunNo: <b>8</b> 4	4701				
Prep Date:	Analysis Date: 12	/21/2021	S	SeqNo: 29	978949	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- 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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2112C09

27-Dec-21

WO#:

	WO#:	2112C09
Hall Environmental Analysis Laboratory, Inc.		27-Dec-21

Client:	Lucid Energy
Project:	Fruitbasket NAPP2111128863

Sample ID: 2112c09-003amsd	SampT	ype: <b>MS</b>	D	Tes	TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BH02-1'	Batch ID: C84701 RunNo: 84701									
Prep Date:	Analysis D	ate: 12	/21/2021	5	SeqNo: 29	978949	Units: mg/K	ſg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	13	3.0	15.09	0	89.0	61.3	114	0.0899	20	
Surr: BFB	620		603.5		103	70	130	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level. \*
- D Sample Diluted Due to Matrix
- Н 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 interference S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Lucid Energy

**Client:** 

**Project:** 

Client ID:

Prep Date:

Analvte

Ethylbenzene Xylenes, Total

Client ID:

Prep Date:

Analyte

Ethylbenzene

Xylenes, Total

Client ID:

Prep Date:

Analyte

Ethylbenzene Xylenes, Total Surr: 4-Bromof

Sample ID: 1 Client ID: L Prep Date:

Analyte

Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromof

Benzene Toluene

Benzene Toluene

Benzene

Toluene

Sample ID: mb

PBS

Surr: 4-Bromofluorobenzene

Sample ID: 100ng btex Ics

Surr: 4-Bromofluorobenzene

PBS

Sample ID: mb-II

LCSS

# **OC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

Fruitbasket NAPP2111128863

Result

ND

ND

ND

ND

1.0

Result

0.96

0.94

0.93

2.8

1.0

Result

ND

SampType: MBLK

Batch ID: E84701

Analysis Date: 12/21/2021

PQL

0.025

0.050

0.050

0.10

SampType: LCS

Batch ID: E84701

Analysis Date: 12/21/2021

PQL

0.025

0.050

0.050

0.10

SampType: MBLK

Batch ID: F84701

Analysis Date: 12/21/2021

PQL

0.025

SPK value SPK Ref Val

SPK value SPK Ref Val

0

0

0

0

1.000

1.000

1.000

1.000

3.000

1.000

	ND	0.050							
	ND	0.050							
	ND	0.10							
ofluorobenzene	1.0		1.000		102	70	130		
100ng btex lcs-ll	btex Ics-II SampType: LCS TestCode: EPA Method 8021B: Volatiles								
LCSS	Batcl	h ID: <b>F8</b> 4	4701	RunNo: 84701					
	Analysis D	Date: 12	2/21/2021	S	SeqNo: 29	978990	Units: mg/Kg		
	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	
	1.0	0.025	1.000	0	100	80	120		
	1.0	0.050	1.000	0	99.8	80	120		
	0.99	0.050	1.000	0	99.1	80	120		
	3.0	0.10	3.000	0	99.0	80	120		
fluorobenzene	1.1		1.000		105	70	130		

SPK value SPK Ref Val %REC

#### **Qualifiers:**

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference
- R Analyte detected in the associated Method Blank
- Е Value above quantitation range J
- Analyte detected below quantitation limits
- Р Sample pH Not In Range RL Reporting Limit

2112C09 27-Dec-21

Qual

Qual

Qual

Qual

WO#:

**RPDLimit** 

RPDLimit

RPDLimit

RPDLimit

TestCode: EPA Method 8021B: Volatiles

LowLimit

70

TestCode: EPA Method 8021B: Volatiles

LowLimit

80

80

80

80

70

TestCode: EPA Method 8021B: Volatiles

LowLimit

Units: mg/Kg

130

Units: mg/Kg

120

120

120

120

130

Units: mg/Kg

HighLimit

HighLimit

HighLimit

%RPD

%RPD

%RPD

RunNo: 84701

%REC

102

RunNo: 84701

%REC

95.5

94.4

93.4

93.5

103

RunNo: 84701

SeqNo: 2978989

SeqNo: 2978968

SeqNo: 2978967

F

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	Lucid Energy
Project:	Fruitbasket NAPP2111128863

Sample ID: 2112c09-004ams	SampType: MS TestCode: EPA Method 8021B: Volatiles									
Client ID: BH02A-2.5'	Batcl	h ID: <b>F8</b> 4	4701	F	RunNo: 84701					
Prep Date:	Analysis D	Date: 12	2/21/2021	5	SeqNo: 29	978995	Units: mg/K	ſg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.020	0.8137	0	97.9	80	120			
Toluene	0.79	0.041	0.8137	0	97.1	80	120			
Ethylbenzene	0.78	0.041	0.8137	0	96.3	80	120			
Xylenes, Total	2.3	0.081	2.441	0	96.2	80	120			
Surr: 4-Bromofluorobenzene	0.82		0.8137		101	70	130			
Sample ID: 2112c09-004amsc	<b>I</b> SampT	Гуре: <b>МS</b>	D	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Sample ID: 2112c09-004amsc Client ID: BH02A-2.5'		「ype: <b>MS</b> h ID: <b>F8</b> 4			tCode: EF		8021B: Volat	iles		
		h ID: <b>F8</b> 4	4701	F		4701	8021B: Volat Units: mg/K			
Client ID: BH02A-2.5'	Batcl	h ID: <b>F8</b> 4	4701 2/21/2021	F	8unNo: <b>8</b> 4	4701			RPDLimit	Qual
Client ID: <b>BH02A-2.5'</b> Prep Date:	Batcl Analysis D	h ID: F84 Date: 12	4701 2/21/2021	א פ	8unNo: <b>8</b> 4 SeqNo: <b>2</b> 9	4701 978996	Units: mg/K	ſg	RPDLimit 20	Qual
Client ID: <b>BH02A-2.5'</b> Prep Date: Analyte	Batcl Analysis D Result	h ID: <b>F8</b> 4 Date: <b>12</b> PQL	4701 2/21/2021 SPK value	R S SPK Ref Val	RunNo: 84 SeqNo: 29 %REC	4701 978996 LowLimit	Units: <b>mg/K</b> HighLimit	<b>⁄g</b> %RPD		Qual
Client ID: BH02A-2.5' Prep Date: Analyte Benzene	Batcl Analysis D Result 0.81	h ID: <b>F8</b> Date: <b>12</b> PQL 0.020	4701 2/21/2021 SPK value 0.8137	F S SPK Ref Val 0	RunNo: <b>84</b> SeqNo: <b>29</b> %REC 99.3	4701 978996 LowLimit 80	Units: <b>mg/K</b> HighLimit 120	<b>5g</b> <u>%RPD</u> 1.42	20	Qual
Client ID: <b>BH02A-2.5'</b> Prep Date: Analyte Benzene Toluene	Batcl Analysis D Result 0.81 0.79	h ID: <b>F8</b> 4 Date: <b>12</b> PQL 0.020 0.041	4701 2/21/2021 SPK value 0.8137 0.8137	F S SPK Ref Val 0 0	RunNo: <b>84</b> SeqNo: <b>29</b> %REC 99.3 97.7	4701 978996 LowLimit 80 80	Units: <b>mg/K</b> HighLimit 120 120	<b>5g</b> %RPD 1.42 0.637	20 20	Qual

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- 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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WO#: 2112C09

27-Dec-21

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HALL HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345	ental Analysis Labo 4901 Hawki Albuquerque, NM 3975 FAX: 505-345 ts.hallenvironmente	ins NE 87109 <b>Sai</b> 5-4107	Sample Log-In Check List			
Client Name: Lucid Energy W	ork Order Num	nber: 2112C09		RcptNo: 1			
Received By: Cheyenne Cason 12/2	1/2021 8:00:0	0 AM	Chul				
Completed By: Desiree Dominguez 12/2	1/2021 8:38:12	2 AM	TP>				
Reviewed By: TRC 12/21	121 9:	02 (		$\sim$			
Chain of Custody		0					
1. Is Chain of Custody complete?		Yes 🔽	No 🗌	Not Present			
2. How was the sample delivered?		Courier					
Log In 3. Was an attempt made to cool the samples?		Yes 🔽	No 🗌				
<ol> <li>Were all samples received at a temperature of &gt;0°</li> </ol>	C to 6.0°C	Yes 🗸	No 🗌				
5. Sample(s) in proper container(s)?		Yes 🔽	No 🗌				
<ol><li>Sufficient sample volume for indicated test(s)?</li></ol>		Yes 🗹	No 🗌				
7. Are samples (except VOA and ONG) properly prese	erved?	Yes 🔽	No 🗌				
3. Was preservative added to bottles?		Yes	No 🔽	NA 🗌			
9. Received at least 1 vial with headspace <1/4" for A	Q VOA?	Yes 🗌	No 🗌	NA 🔽			
0. Were any sample containers received broken?		Yes	No 🔽	# of preserved			
1. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🔽	No 🗌	bottles checked for pH: (<2 or >12	unless noted)		
2. Are matrices correctly identified on Chain of Custod	y?	Yes 🗸	No 🗌	Adjusted?			
3. Is it clear what analyses were requested?		Yes 🗹	No 🗌		1 1		
<ol> <li>Were all holding times able to be met? (If no, notify customer for authorization.)</li> </ol>		Yes 🗹	No 🗌	Checked by: JA	12/21/21		
pecial Handling (if applicable)			1				
5. Was client notified of all discrepancies with this ord	er?	Yes 🗌	No 🗌	NA 🔽			
Person Notified:	Date	:[					
By Whom:	Via:	-	Phone 🗌 Fax	In Person			
Regarding:		and in the mark of a local part of a	NUMBER OF CONTRACTOR	estimation a transmission of the second state of the second state of the second state of the second state of the			
Client Instructions:			anne definishe spanisti anne see eannanta a	AN CONSISTENCY OF THE CONSISTENCY OF THE CONSISTENCY OF			

#### 17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	-1.2	Good			a la de ana anti desta de cara de ana de ana de ana	
2	0.9	Good				

	HALL ENVIRONMENTAL		www.rraiienvironmental.com 4901 Hawkins NF - Alburutiszatus, NM 87100	Tel 505-245-2075 Eav 505 245 4007	naly	() ()	DS '⁺Oc	5220 <sup>3+</sup> E	оr 8 И(	10 ( 13) 10 10 10 10 10 10 10 10 10 10 10 10 10	58 v 9M (AC) -ime	EDB (Ma PAHs by RCRA 8 S260 (Vo S270 (Se Total Co											Direct bill to Lucid Energy	Prop # 195227500 Company # 860 Send confirmation and lab report to joe.hernandez@wsp.com
			4901 P	Tel 5	0.0	-	N MBC	סאמ	10	ЯÐ	5D(	ros:нчт 94 r808										Remarks:	ect bill to	Prop # 195227500 Company # 860 Send confirmation a
Γ				Τ		(	1208) 8	NB.		' 38 	ITM	X3T8							-			Rer	ם <u>ו</u> ב	
	Rush <sup>24Hr.</sup>		11128863)						ON []	-0.25-17	-0.220.9	2112-CO9	- 001	200 -	-003	100-	-005	-006				Date Time	142021 1115	Jordan Cano
d Time:			Fruitbasket (NAPP2111128863)	8	66.005	ager:	Hernandez	vis Casev	<b>A</b> Yes	51	102622	Preservative Type	N/A	N/A	N/A	N/A	N/A	N/A				Via:	Mr. M	Via:
Turn-Around	□ Standard	Project Name:	Fruitbaske	Project #:	31403366.005	Project Manager:	Joseph S.	Sampler: Travis Casev	On Ice:	# of Coolers:	Cooler Temp(including CF): .	Container Type and #	2oz/1	2oz/1	2oz/1	2oz/1	2oz/1	2oz/1				Received by:	WANNA	1
Chain-of-Custody Record	Lucid Energy Group	Michael Gant	201 S 4th Artesia, NM 88210			email or Fax#: mgant@lucid-energy.com	Level 4 (Full Validation)	npliance				Sample Name	BH01-1'	BH01A-2'	BH02-1'	BH02A-2.5'	BH03-1'	BH03A-3'	5					
-of-Cu	Lucid	Micha			0-6144	igant@luci		□ Az Compliance	□ Other_			Matrix	S	S	S	S	S	S				Relinquished by:		Relinquished by: AALLUU
hain			Mailing Address:		Phone #: 575-810-6144	r Fax#: r	QA/QC Package:	tation:	AC	(Type)		Time	1008	1012	1020	1025	1141	1149				Time:		1 900
0	Client:		Mailing		Phone :	email o	QA/QC Packa	Accreditation:	DI NELAC	EDD (Type)		Date	12/17	12/17	12/17	12/17	12/17	12/17				Date:		ale: 120/21

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

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:
LUCID ENERGY DELAWARE, LLC	372422
201 S. Fourth Street	Action Number:
Artesia, NM 88210	74764
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

	-	
Created By	Condition	Condition Date
chensley	Date of discovery: 03/19/2021. Initial C-141 received: 04/20/2021 (Late reporting) Reported to OCD: 04/16/2021. (Late Notifying OCD) Closure report received: 01/24/2022. That is approximately 270 days since last report filed. Failure to comply with NMAC 19.15.29, Lucid could be subject to Civil Penalties for future violations. https://www.emnrd.nm.gov/ocd/wp-content/uploads/sites/6/Civil-Penalty-Calculation-Method-Version-2021-01.pdf	2/10/2022
chensley	The OCD has accepted and approved your closure report.	2/10/2022

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Action 74764