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	NRM1929839706
District RP	1RP-5768
Facility ID	
Application ID	111129

### **Release Notification**

### **Responsible Party**

Responsible Party Lucid Energy Delaware, LLC	OGRID 372422
Contact Name Michael Gant	Contact Telephone 575.748.4555
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 32.038807°

Longitude -103.466545°

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Rattlesnake SWD Pump Station	Site Type Produced water pump station
Date Release Discovered 8-7-2019	API# (if applicable)

Unit Letter	Section	Township	Range	County	
Р	16	26S	34E	Lea	NV -07/12/2022

Surface Owner:  $\Box$  State  $\checkmark$  Federal  $\Box$  Tribal  $\checkmark$  Private (*Name*: Bureau of Land Management  $\mathcal{N}_{V}$  -07/12/2022

### Nature and Volume of Release

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

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 15-20 bbls	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	Yes V No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Flange on pumping station failed causing the release of water.

Page 6

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Page 2 of 75

### 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)

 $\square$  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.

 Closure Approved by:
 Nelson Velez
 Date:
 07/13/2022

 Printed Name:
 Nelson Velez
 Title:
 Environmental Specialist – Adv

WSP USA

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

May 16, 2022

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

### RE: Closure Request Rattlesnake SWD Pump Incident Number NRM1929839706 Eddy County, New Mexico

To Whom it May Concern:

WSP USA Inc. (WSP) on behalf of Lucid Energy Delaware, LLC (Lucid) presents the following Closure Request detailing site assessment, excavation, and soil sampling activities at the Rattlesnake SWD Pump (Site) in Unit P, Section 16, Township 26 South, Range 34 East, in Lea County, New Mexico (Figure 1). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil following the release of produced water from pumping station the Site. Based on the excavation activities and soil sample laboratory analytical results, Lucid is submitting this Closure Request, and requesting no further action (NFA) for Incident Number NRM1929839706

#### **RELEASE BACKGROUND**

On August 7<sup>th</sup>, 2019, failure of flange on pumping station caused a release of 15-20 bbls produced water from the pumping station. From the total release volume, 0bbls of the pipeline liquid was recovered. Immediate notice was provided to New Mexico Oil Conservation Division (NMOCD. Lucid reported the release to the NMOCD on a Release Notification Form C-141 (Form C-141) on August 15, 2019. The release was assigned Incident Number NRM1929839706.

### SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is greater than 50 -100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NM OSE) well C-4583, located approximately 1 mile south of the Site. The groundwater well has a reported depth to groundwater of 55 feet bgs and a total depth of 56 feet bgs. The referenced well records are included in Attachment 1. The closest continuously flowing or significant watercourse to the Site is a Riverine, located approximately 1063 feet south of the Site. The Site is greater than 200 feet



from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

### **CLOSURE CRITERIA**

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 10,000 mg/kg

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

### SITE ASSESSMENT AND DELINEATION ACTIVITIES

On April 22<sup>nd</sup>, 2022 WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Nine boreholes were advanced and soil samples were collected within the release extent from a depth of 4 feet bgs to assess the lateral extent of impacted soil. Soil samples from the boreholes were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach<sup>®</sup> chloride QuanTab<sup>®</sup> test strips, respectively. Based on field screenings, clean lateral depth was determined to be at 0-4 ft bgs. Based on visual observations and, field screening activities, for nine borehole samples, excavation activities were warranted to remove impacted soil to a total depth of 4 ft bgs.

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

On April 22<sup>nd</sup> and 26<sup>th</sup>, 2021, WSP personnel returned to the site to oversee additional excavation and completion of activities. Based on visual observations and, field screening activities, for the borehole soil samples, delineation and excavation were completed to remove impacted soil in the area surrounding the release extent. Excavation activities were performed using a track hoe and hydro excavator. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach<sup>®</sup> chloride QuanTab<sup>®</sup> test strips, respectively. The excavation was completed to an approximate depth of 0-4'foot bgs. wsp

District II Page 3

Following removal of impacted soil, WSP collected 8-point composite soil samples every 200 square feet from the floor of the excavation. The 8-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS08 were collected from the floor of the excavation, from a depth of 1ft to 4-feet bgs. Due to the depth of the excavation, soil samples were taken for the sidewalls (SW) of the excavation. The excavation SW soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 4. Photographic documentation was completed during the Site visits and a photographic log is included in Attachment 3.

Laboratory analytical results for excavation soil samples FS01 through FS08 and SW01-SW04 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 4.

The excavation area measured approximately 1,966.3 square feet. A total of approximately 291 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the Lea Land disposal in Carlsbad, New Mexico and R360 in Carlsbad, New Mexico. After completion of confirmation sampling, the excavation area was backfilled.

### **CLOSURE REQUEST**

Site assessment and excavation activities were conducted at the Site to address the August 7, 2019, release of produced water from the failed flange on the pumping station. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the most stringent Table 1 Closure Criteria. Based on the soil sample analytical results, no further remediation was required. Lucid backfilled the excavation with material purchased locally and recontoured the Site to match pre-existing site conditions.

Initial response efforts and excavation of impacted soil have mitigated impacts at the Site. Depth to groundwater has been determined to be greater than 50-100 feet bgs and no other sensitive receptors were identified near the release extent. WSP and Lucid believe these remedial actions are protective of human health, the environment, and groundwater. As such, Lucid respectfully requests no further action for Incident Number NRM1929839706. A signed-C141 Closure Request is included in Attachment 5.

NV - 07/13/2022

wsp

District II Page 4

If you have any questions or comments, please do not hesitate to contact Mr. Travis Casey

at (575) 689-5949.

Sincerely,

Flisky Dahad

Alisha Dahal Associate Consultant, Geologist

Twing & Comp

Travis Casey Consultant, Environmental Scientist

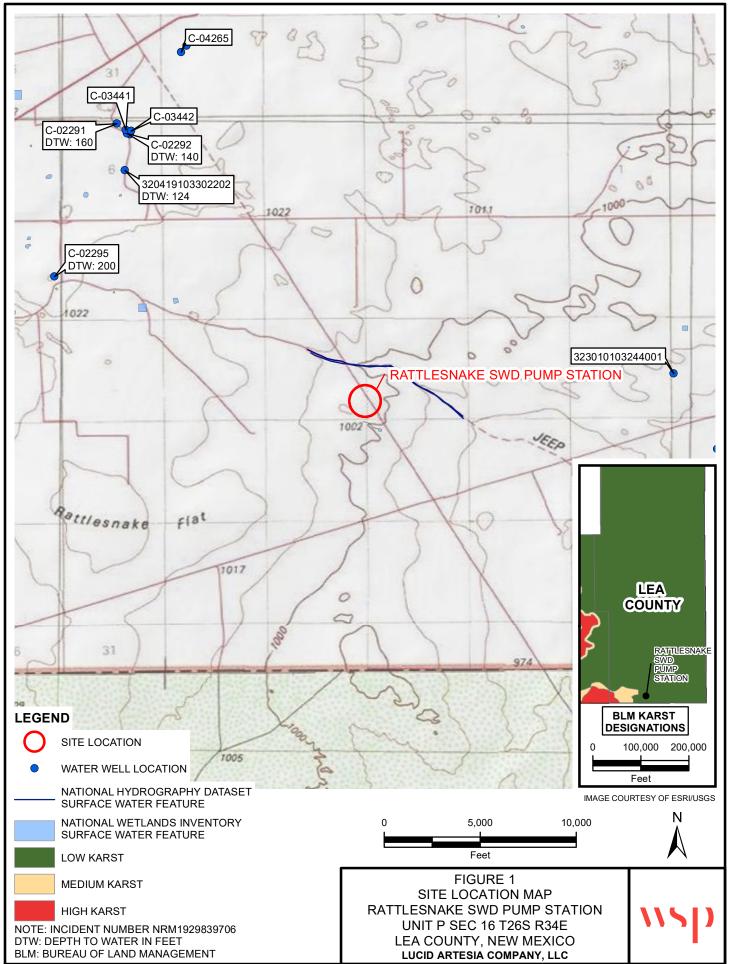
cc:

Bureau of Land Management

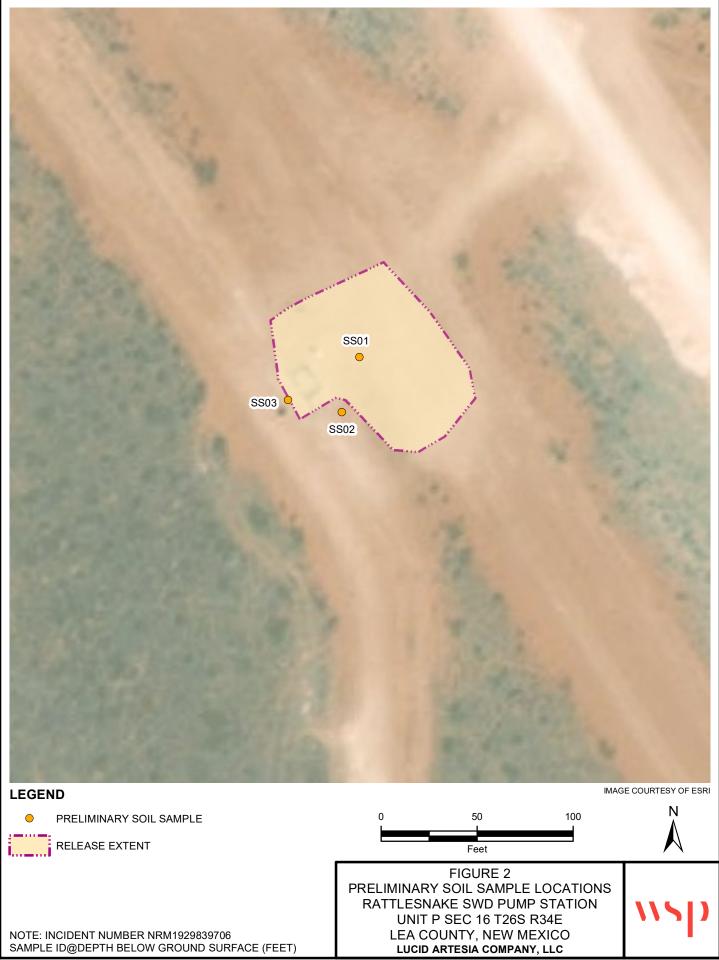
Attachments:

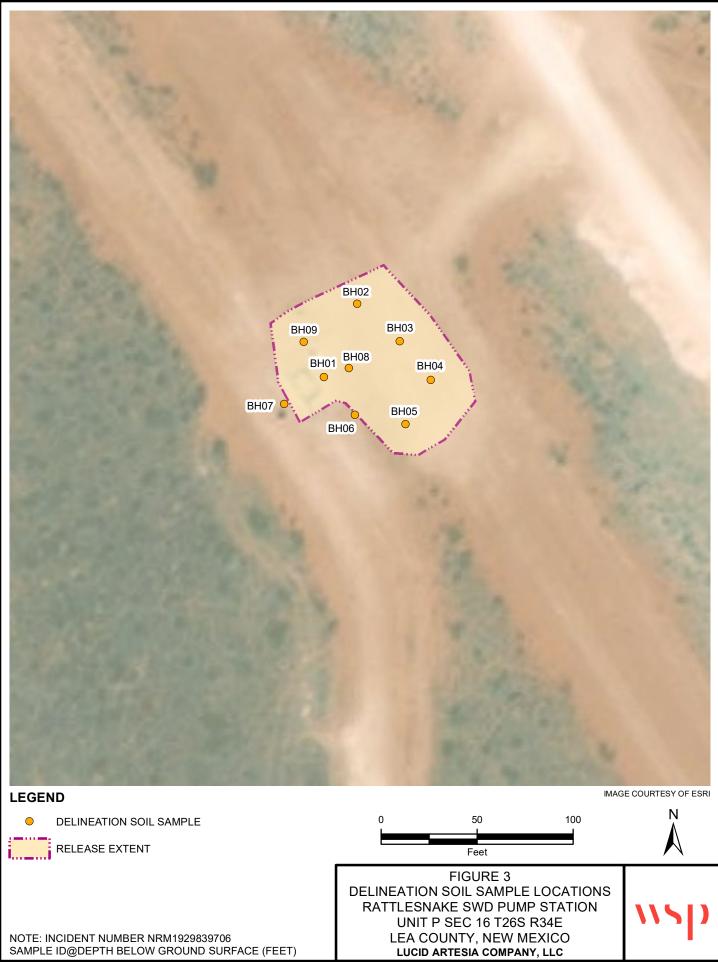
- Figure 1 Site Location Map
- Figure 2 Preliminary Soil Sample Locations
- Figure 3 Delineation Soil Sample Locations
- Figure 4 Excavation Soil Sample Locations
- Table 1 Soil Analytical Results
- Attachment 1 Referenced Well Records
- Attachment 2 Lithologic/Sampling Logs
- Attachment 3 Photographic Log
- Attachment 4 Laboratory Analytical Reports
- Attachment 5 C141 Closure Request

# FIGURI

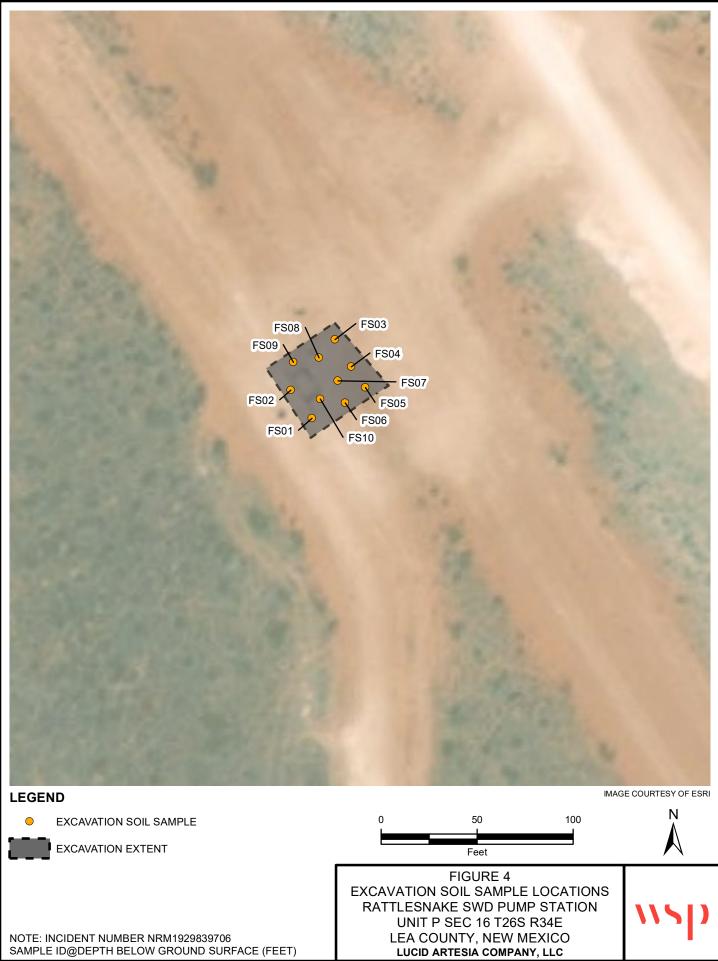


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# TABLE



2/3/2022

2904 W 2nd St. Roswell, NM 88201 volce: 575.624.2420 fax: 575.624.2421 www.atkinseng.com

DII-NMOSE 1900 W 2<sup>nd</sup> Street Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4583 Pod1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, C-4583 Pod1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

Groon Middlam

Lucas Middleton Enclosures: as n

s: as noted above

OSE DIT FEB 4 2022 PM10:34

PAGE 1 OF 2

.

WELL TAG ID NO.



## WELL RECORD & LOG

### OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

	OFF BOD NO	/B/D/ 1	1)	I	THE TAC PART	-		OFF F	ILE NO(	s)			
z	OSE POD NO. POD1 (BH		·.)		ELL TAG ID NO. A			C-45		<i>э</i> ј.			
0E		-											
GENERAL AND WELL LOCATION	WELL OWNER		) (Michael Gant)					PHONE (OPTIONAL)					
I I	WELL OWNER	R MAILING	G ADDRESS					CITY			STATE		ZIP
VEI	201 S 4th St	t,						Artes	ia		NM	88210	
Â		T	DF	GREES	MINUTES	SECON	DS				_		
AN	WELL			32	12	38.0	3	+ ACC	URACY	REQUIRED: ONE TENT	TH OF A S	SECOND	
TY	LOCATION (FROM GPS		TITUDE	102	50	59.7	<sup>S</sup> N			UIRED: WGS 84			
NEI	LONGITUDE 105 50 58.70 W									-			
GE	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHJIP, RANGE) WHERE AVAILABLE												
-	SW SW Sec.15 T26S R34E, NMPM												
	LICENSE NO.		NAME OF LICENSED	ק ז וופרו		_	_	_	_	NAME OF WELL DRI	LUNGO	OMPANY	
	LICENSE NO. 1249	9	MAINE OF LICENSED		cie D. Atkins							Associates, I	nc.
	DRILLING ST.		DRILLING ENDED	DEPTH OF COMPL		<u>,                                     </u>	BORE HO		TU (ET)	DEPTH WATER FIRS			
	DRILLING ST. 1-4-20		DRILLING ENDED		well materia	· I	DUKE HOI	55	ы(r1)	DEFIN WATER FIR	n/a		
			1 1 2022	to the potenty									
	COMPLETED	WELL IS:	ARTESIAN	<b>DRY HOLE</b>	SHALLO	W (UNCON	IFINED)			STATIC WATER LEV	n/a		LL (F1)
NO											_	_	
LIN	DRILLING FLUID: AIR MUD ADDITIVES - SPECIFY:												
RM	DRILLING METHOD: TROTARY HAMMER CABLE TOOL TOTH							R – SPE	CIFY:	Hollo	w Stem	Auger	
NFO	DEPTH (feet bgl) BORE HOLE			CASING MA	TERIAL AND	/OR		ASING		CASING	CASI	NG WALL	SLOT
2. DRILLING & CASING INFORMATION	FROM TO		DIAM		GRADE		CONNECTION				CKNESS	SIZE	
SIN	(inches)			(include each casing string, and note sections of screen) (add coup			YPE	n eter)	(inches)		inches)	(inches)	
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MAT										OSE DIT FEB	4202	2 am10:34	
NR 1													
10													
NN													
3. A			1										
EOP	OSE INTERN								WR-20	WELL RECORD	& LOG	Version 06/3	)/17)
	FOR OSE INTERNAL USE     WR-20 WELL RECORD & LOG (Version 06/30/17)       FILE NO.     POD NO.       TRN NO.												

LOCATION

•

	DEPTH (	feet bgl) TO	THICKNESS (feet)	ESS COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)							ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	6	6	Sand, well graded, poorly sorted, subangular gravel, brown , dry						√ N	
	6	13.5	7.5	Caliche, poorly-cemented, fine-grained sandy matrix, gravel, light tan, dry						<b>√</b> N	
	13.5	55	41.5	Sand, well graded, well sorted, subangular gravel, light brown , moist					Y	<b>√</b> N	
									Y	N	
									Y	N	
									Y	N	
4. HYDROGEOLOGIC LOG OF WELL									Y	N	
6									Y	N	
ğ									Y	N	
									Y	N	
ğ									Y	N	
									Y	N	
2 2 2									Y	N	
HXI									Y	N	
4									Y	N	
									Y	N	
									Y	N	
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									Y	N	
									Y	N	
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:							AL ESTIMA	ATED		
	PUMP     AIR LIFT     BAILER     OTHER - SPECIFY:							L YIELD	(gpm):	0.00	
ISION	WELL TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.										
TEST; RIG SUPERVIS	MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. Logs adapted from WSP on-site geologist.										
EST.	PRINT NAM	E(S) OF DI	RILL RIG SUPER	VISOR(S) THAT PRO	VIDED ONSITE SUPERVI	SIONO	F WELL CON	STRU	CTION OT	IER TH	AN LICENSEE
5. T			on Pruitt, Carmo								
TURE	CORRECT R	ECORD O	F THE ABOVE D	ESCRIBED HOLE AN	EST OF HIS OR HER KNO D THAT HE OR SHE WIL PLETION OF WELL DRILL	L FILE	GE AND BEL THIS WELL F	IEF, TI ECOR	HE FOREG D WITH T	OING IS HE STA	S A TRUE AND TE ENGINEER
6. SIGNATURE	Jack A	tkins		Jac	ckie D. Atkins				2/1/20	)22	
-		SIGNAT	URE OF DRILLE	R / PRINT SIGNEE	NAME				D	DATE	
FOR	OSE INTERN	IAL USE					WR-20 WE	LL REC	CORD & LO	OG (Ver	sion 06/30/2017)
	E NO.				POD NO.		TRN NO.				
LOC	CATION					WELL	TAG ID NO.				PAGE 2 OF 2



## PLUGGING RECORD



### NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

### I. GENERAL / WELL OWNERSHIP:

State	Engineer Well Number: C-4583 POD1 (TW-1)		
	owner: Lucid Energy Group( Michael Gant)	Phone No.:	575-810-6144
Maili	ing address: 201 S 4th St.		
City:	Artesia State:	NM	Zip code:
<u>II. V</u>	VELL PLUGGING INFORMATION:		
1)	Name of well drilling company that plugged well:	Atkins (Atkins Engine	ering Associates Inc.)
2)	New Mexico Well Driller License No.: 1249	E	xpiration Date:
3)	Well plugging activities were supervised by the following we Lupe Leyba	ell driller(s)/rig supervis	sor(s):
4)	Date well plugging began: <u>1/21/2022</u> Dat	e well plugging conclu	ded:
5)	GPS Well Location: Latitude: <u>32</u> deg, Longitude: <u>103</u> deg,	2 min, 15 min, 54	.69sec .67sec, WGS 84
6)	Depth of well confirmed at initiation of plugging as:55.2 by the following manner: weighted tape	ft below ground le	vel (bgl),
7)	Static water level measured at initiation of plugging:n/a	ft bgl	
8)	Date well plugging plan of operations was approved by the S	tate Engineer:12/20/2	2021
9)	Were all plugging activities consistent with an approved plug differences between the approved plugging plan and the well		
		i <u>.</u>	DSE DIT FEB 4 2022 mil0:34

Version: September 8, 2009 Page 1 of 2

Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with 10) horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

<u>Depth</u> (ft bgl)	Plugging <u>Material Used</u> (include any additives used)	Volume of <u>Material Placed</u> (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement <u>Method</u> (tremie pipe, other)	<u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.)
-	0-10' Hydrated Bentonite	Approx. 18 galions	15 gallons	Augers	
	10'-55' Drill Cuttings	Approx. 71 gallons	71 gallons	Boring	
-					
-					
-					
		1			
, i î				OSE DI P	EB 4 2022 M10:34
		MULTIPLY E cubic feet x 7.4 cubic yards x 201.9	I BY AND OBTAIN BD5 = gallons I7 = gallons		

#### For each interval plugged, describe within the following columns:

#### **III. SIGNATURE:**

I, Jackie D. Atkins

, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Jack Atkins

2/1/2022

Signature of Well Driller

Date

Version: September 8, 2009 Page 2 of 2

## C-4583\_OSE\_Well Record and Log\_-forsign

**Final Audit Report** 

2022-02-01

Created:	2022-02-01
Ву:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAA5w9tkOjyA6NWhFADmwlV5Gt_HBjP1SLB

## "C-4583\_OSE\_Well Record and Log\_-forsign" History

- Document created by Lucas Middleton (lucas@atkinseng.com) 2022-02-01 - 5:07:59 PM GMT- IP address: 69.21.248.123
- Document emailed to Jack Atkins (jack@atkinseng.com) for signature 2022-02-01 - 5:08:49 PM GMT
- Email viewed by Jack Atkins (jack@atkinseng.com) 2022-02-01 - 5:28:15 PM GMT- IP address: 64.90.153.232
- Document e-signed by Jack Atkins (jack@atkinseng.com) Signature Date: 2022-02-01 - 5:31:04 PM GMT - Time Source: server- IP address: 64.90.153.232

Agreement completed. 2022-02-01 - 5:31:04 PM GMT

DSE DIT FEB 4 2022 #10:34



			_		WO			В	oring Name:		Date:	
508 West Stevens Street									BH01		1/5 & 1/6/2022	
									Site Name: Rattlesr	nake SWD Pur	mp	
				Car	isbad, ine		DTW Boring					
								WSP Job Number: 31403665.009				
		LITH	OLOG	SIC / SOIL			ogged By: AB		Method: Hollow Stem Au	ger		
Lat/Lo 32.037	ng: 7691, -103.	.465185			Field Scre n/a		lole Diameter:		Total Depth: 55 feet			
Comm	ients:									55 1001		
Moistu	ire content	: "M" - Moi	st; Onc	e TD was rea	ached, the	boring was		or at least 72	hours.			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol			Lithology/R	Remarks	
						0		sorted, su		el (3 - 15 mr	ND (f c.) with silt an m), no plasticity, no	d poorly
D			No	BH01	5	5		no cohesi		ained sand	poorly-cemented, no y matrix with well-sor lor	
D					10	10		with silt ar no plastici	nd well-sorted, ty, no cohesive	subrounded eness, no od		
D					15	15	SW-SM				creased red and dark ase gravel content	ker soli
D					20	20	SW-SM					
D					25	25	SW-SM					
Μ	X				30	30	SW-SM					
Μ					35	35	SW-SM					
Μ					40	40	SW-SM					
М					45	45	SW-SM					
Μ					50	50	SW-SM					
D					55	55	SW-SM					
					-	- 						

WYND         Dig Yest, Stevent, Street, Cartibact, New Maximi, Street, Str						MIS				BH or PH Name: BH01	Date: 4/22/2022	
Cartsbad, New Mexico 88220     RP or Incident Number: NRM1929839706       WSP Job Number: 31403665.009       LITHOLOGIC / SOIL SAMPLING LOG     Logged By: MR, AD     Method:Back hoe       Lat/Long:     Field Screening: Chloride, PID     Total Depth: 2 ft       232.038771,-103.466485     Field Screening: Chloride, PID     Total Depth: 2 ft     Total Depth: 2 ft       Comments: Includes the correction factor of 1.4, SAA; Same As Above     Depth (ft bgs)     Depth (ft bgs)     Depth (ft bgs)     Depth (ft bgs)     Lithology/Remarks       M     1,646     0     N     BH01     1     1     SP-SM     SAND, poorly graded sand with silt and gravel, moist, non plastic fines, dark brown, no stain, no odor       M     3,573     0.0     N     2     2     SP-SM     SAA												
WSP Job Number: 31403665.009         LiTHOLOGIC / SOIL SAMPLING LOG       Logged By: MR, AD       Method:Back hoe         Lat/Long: 32.038771,-103.466485       Field Screening: Chloride, PID       Hole Diameter: N/A       Total Depth:2 ft         Comments: Includes the correction factor of 1.4, SAA; Same As Above       Sample       Depth (ft bgs)       Depth (ft bgs)       Depth (ft bgs)       Depth (ft bgs)       Lithology/Remarks         M       1,646       0       N       BH01       1       1       SP-SM       SAND, poorly graded sand with silt and gravel,moist, non plastic fines,dark brown, no stain,no odor         M       3,573       0.0       N       2       2       SP-SM       SAA					5	08 West	Stevens S	Street				
LITHOLOGIC / SOIL SAMPLING LOG       Logged By: MR, AD       Method:Back hoe         Lat/Long: 32.038771,-103.466485       Field Screening: Chloride, PID       Hole Diameter: N/A       Total Depth:2 ft         Comments: Includes the correction factor of 1.4, SAA; Same As Above       Back hoe       Each of the properties of the prope					Cal	isbau, Ne		00220				
Lat/Long:       Field Screening:       Hole Diameter: N/A       Total Depth: 2 ft         32.038771,-103.466485       Comments: Includes the correction factor of 1.4, SAA; Same As Above       Total Depth: 2 ft         Comments: Includes the correction factor of 1.4, SAA; Same As Above       Depth       Depth       Depth         90:0       0       0       0       Eagle       Depth       Depth         M       1,646       0       N       BH01       1       1       SP-SM       SAND, poorly graded sand with silt and gravel, moist, non plastic fines, dark brown, no stain, no odor         M       3,573       0.0       N       2       2       SP-SM       SAA												
32.038771,-103.466485       Chloride, PID         Comments: Includes the correction factor of 1.4, SAA; Same As Above         and to be the correction factor of 1.4, SAA; Same As Above         and to be the correction factor of 1.4, SAA; Same As Above         and to be the correction factor of 1.4, SAA; Same As Above         and to be the correction factor of 1.4, SAA; Same As Above         and to be the correction factor of 1.4, SAA; Same As Above         and to be the correction factor of 1.4, SAA; Same As Above         and to be the correction factor of 1.4, SAA; Same As Above         and to be the correction factor of 1.4, SAA; Same As Above         and to be the correction factor of 1.4, SAA; Same As Above         and to be the correction factor of 1.4, SAA; Same As Above         and to be the correction factor of 1.4, SAA; Same As Above         M       1,646       0       N       BH01       1       1       1       SP-SM SAND, poorly graded sand with silt and gravel, moist, non plastic fines, dark brown, no stain, no odor         M       3,573       0.0       N       2       2       SP-SM SAA												
Comments: Includes the correction factor of 1.4, SAA; Same As Above         antision       Depth (ft bgs)       Depth (ft bgs) <th< td=""><td>Lat/Lo</td><td>ng: 2771 -103 /</td><td>466485</td><td></td><td></td><td></td><td></td><td></td><td></td><td>Hole Diameter: N/A</td><td>Total Depth:2 ft</td></th<>	Lat/Lo	ng: 2771 -103 /	466485							Hole Diameter: N/A	Total Depth:2 ft	
angle in the second				orrectio	n factor of 1			ove				
M       1,646       0       N       BH01       1       1       SP-SM       SAND, poorly graded sand with silt and gravel, moist, non plastic fines, dark brown, no stain, no odor         M       3,573       0.0       N       2       2       SP-SM       SAA	Comments: Includes the correction factor of 1.4, SAA; Same As Above											
M       1,646       0       N       BH01       1       1       1       SP-SM       SAND, poorly graded sand with silt and gravel, moist, non plastic fines, dark brown, no stain, no odor         M       3,573       0.0       N       2       2       SP-SM       SAA	Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth	Depth	JSCS/Rock Symbol		Litholog	y/Remarks	
		1,646 0 N BH01 1 1 SP-SM SAND,				fines,da	boorly graded sand with s rk brown, no stain,no odd	silt and gravel,moist, non plastic or				
TD @ 2 ftbgs	IVI	3,573	0.0	Ν		2	2	SP-SM	SAA			
						ļ	ļ	ļ	TD @	2 ft bas		

	\\ <sup>\</sup>		٦		WS	SP USA		BH or PH Name: BH02 Date: 4/22/2022
				5	08 West	Stevens S	Street	Site Name: Rattlesnake SWD Pump Station
				Car	lsbad, Ne	w Mexico	88220	RP or Incident Number: NRM1929839706
							WSP Job Number: 31403665.009	
	LITHOLOGIC / SOIL SAMPLING LOG						Logged By: MR, AD Method:Back hoe	
Lat/Lo	ng:	466400			Field Scre			Hole Diameter: N/A Total Depth:2 ft
	8776,-103.4 ents: Inclu		orrectio	n factor of 1.	Chloride,		ove	
Comm			0110000		4, 0, 0, 0,		010	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol	Lithology/Remarks
м	M 296 0 N BH02 1 1 SP-SM SAND,						SAND, poorly graded sand with silt and gravel,moist, non-plastic fines,dark brown, no stain, no odor SAA,but abundant gravel	
Μ	296	0.0	Ν		2	2	SF-SIVI	SAA, but abundant graver
$\left  \right $								TD @ 2 ft bgs

<b>\\</b> \\	WSP USA		BH or PH Name: BH03	Date: 4/22/2022					
	508 West Stevens S Carlsbad, New Mexico	Street	Site Name: Rattlesnake SWD						
		0 00220	RP or Incident Number: NRM1929839706						
		WSP Job Number: 31403665.009							
	OGIC / SOIL SAMPLING LO	DG	Logged By: MR, AD	Method:Back hoe					
Lat/Long: 32.038821,-103.466357	Field Screening: Chloride, PID		Hole Diameter: N/A	Total Depth:2 ft					
		ove							
Comments: Includes the correction factor of 1.4, SAA; Same As Above									
Moisture Content Chloride (ppm) Vapor (ppm)		USCS/Rock Symbol	Lithology	//Remarks					
M <130 0 M		fines,da	oorly graded sand with si k brown, no stain, no odc abundant gravel	ilt and gravel,moist, non-plastic or					
		TD @ 2							

		WSP USA	BH or PH Name: BH04 Date: 4/22/2022
<b>\\</b> \\		08 West Stevens Street	Site Name: Rattlesnake SWD Pump Station
	Car	sbad, New Mexico 88220	RP or Incident Number: NRM1929839706
			WSP Job Number: 31403665.00
LITH		SAMPLING LOG	Logged By: MR, AD Method:Back hoe
Lat/Long:		Field Screening:	Hole Diameter: N/A Total Depth:2 ft
32.038766,-103.466305		Chloride, PID	
Comments: Includes the c	correction factor of 1.	4, SAA; Same As Above	
Moisture Content Chloride (ppm) Vapor (ppm)	Staining Sample #	Sample Depth (ft bgs)	Lithology/Remarks
M <130 0 M <130 0.0	N BH04		SAND, poorly graded sand with silt and gravel,moist, non-plastic ines,dark brown, no stain, no odor SAA,but abundant gravel
			D @ 2 ft bgs

	WS	P USA	BH or PH Name: BH05 Date:4/22/2022	
	508 West	Stevens Street	Site Name: Rattlesnake SWD Pump Station	
	Carlsbad, Ne	Stevens Street w Mexico 88220	RP or Incident Number: NRM1929839706	
			WSP Job Number: 31403665.00	
	OGIC / SOIL SAMPL		Logged By: MR, AD Method:Back hoe	
Lat/Long: 32.038703,-103.466348	Field Scre Chloride,		Hole Diameter: N/A Total Depth:2 ft	
Comments: Includes the corre				
			1	
Moisture Content Chloride (ppm) Vapor (ppm)	Sample <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u> <u>ap</u>	(ft bgs) (ft bgs)	Lithology/Remarks	
M <130 0 I	N BH05 1	0 	SAND, poorly graded sand with silt and gravel,moist, n fines,dark brown, no stain, no odor	on-plastic
M <130 0.0 I	N 2	2 SP-SM	SAA,but abundant gravel	
			TD @ 2 ft bgs	

					WS	P USA			BH or PH Name: BH06	Date:4/22/2022	
				5	08 West Isbad, Ne	Stevens S	Street		Site Name: Rattlesnake SWD		
				Cal	isbau, Ne		00220		RP or Incident Number: NRM1929839706		
LITHOLOGIC / SOIL SAMPLING LOG							WSP Job Number: 31403665.00				
		LITH	OLOG	IC / SOIL			G		Logged By: MR, AD	Method:Back hoe	
Lat/Lor	ng: 3717,-103.4	466433			Field Scre				Hole Diameter: N/A	Total Depth:2 ft	
			orrectio	n factor of 1.	Chloride, 4. SAA Si		ove				
Comm			5110000		+, 0, 0, 0, 0						
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol		Litholog	y/Remarks	
M	A 252 0 N BH06 1 1 SP-SM SAND, fines,da						fines,da	ooorly graded sand with s k brown, no stain, no od abundant gravel	silt and gravel,moist, non-plast or	ic	
	392	0.0	Ν		2	2		0, 1,000	abanaant graver		
								TD @ 2	ft bgs		
											<u> </u>

Lat/Long: 32.038733,-103.466552	WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220 DGIC / SOIL SAMPLING LOG Field Screening: Chloride, PID ction factor of 1.4 SAA; Same As Above	Site Name: Rattlesnake SWD Pump Station         RP or Incident Number: NRM1929839706         WSP Job Number:         Logged By: AD,MR         Method:Back hoe         Hole Diameter: N/A
LITHOLO Lat/Long: 32.038733,-103.466552 Comments: Includes the correct	DGIC / SOIL SAMPLING LOG Field Screening: Chloride, PID	RP or Incident Number: NRM1929839706         WSP Job Number:         Logged By: AD,MR         Method:Back hoe
Lat/Long: 32.038733,-103.466552 Comments: Includes the correct	DGIC / SOIL SAMPLING LOG Field Screening: Chloride, PID	WSP Job Number: Logged By: AD,MR Method:Back hoe
Lat/Long: 32.038733,-103.466552 Comments: Includes the correct	Field Screening: Chloride, PID	Logged By: AD,MR Method:Back hoe
Lat/Long: 32.038733,-103.466552 Comments: Includes the correct	Field Screening: Chloride, PID	
32.038733,-103.466552 Comments: Includes the correct	Chloride, PID	Hole Diameter: N/A Total Depth:2 ft
Comments: Includes the correct		
š <sup>−</sup> <sup>−</sup> c lo ≥	<ul> <li>Sample</li> <li>Bepth</li> <li>CSNSCS</li> <li>CSNSCS</li></ul>	Lithology/Remarks
M <130 0 N	BH07 1 1 SP-SM	SAND,poorly graded sand with silt and gravel,moist,non plastic fines,dark brown,no stain, no odor
M <130 0.4 N	2 2 SP-SM	SAA,but abundant gravel TD @ 2 ft bgs

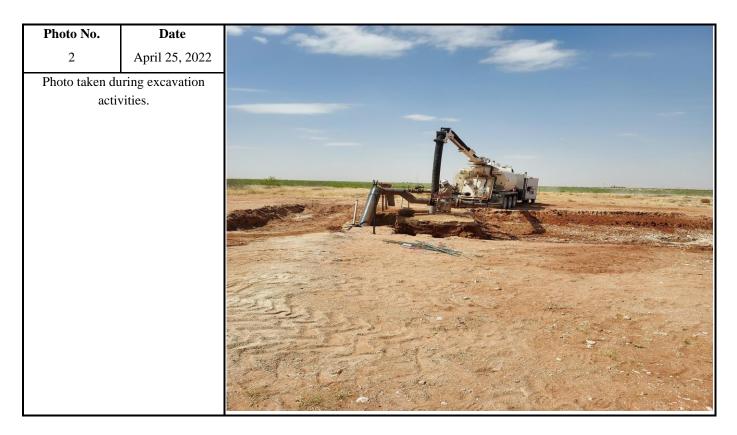
					W	SP USA			BH or PH Name: BH08	3	Date: 4/22/2022	
						Stevens St	reet		Site Name:Rattlesnake		n Station	
						ew Mexico			RP or Incident Number			
									WSP Job Number: 31403665.00			
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: MR, AD		Method: Back hoe			
Lat/Long: Field Screening:						Hole Diameter: N/A		Total Depth: 4 ft				
32.038784,-103.466443 Chloride, PID												
Comments: Includes the correction factor of 1.4, SAA; Same As Above												
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	bgs)	USCS/Rock Symbol		Lit	thology/R	emarks	
М	643	0	Ν	BH08	1	0 1			oorly graded sand k brown, no stain, ı		nd gravel,moist, non-plas	tic
Μ	643	0.4	Ν		-	2			abundant gravel			
D	3,416	350	Ν		-	3				, non plas	tic fines ,well graded grave	el,
D	3,416	400	Ν		-	4			strong odor	n,slight odor It strong odor		
-												
						<u> </u>		TD @ 41	ft bgs			
					_			TD @ 41	ft bgs			

<b>\\</b> \\	_	WSP USA		BH or PH Name:BH09	Date:4/22/2022
	5	08 West Stevens S Isbad, New Mexico	itreet	Site Name: Rattlesnake SWD F	
	Car	Isbad, New Mexico	08220	RP or Incident Number: NRM1	929839707
			WSP Job Number:		
	IOLOGIC / SOIL	SAMPLING LOC	Logged By: AD,MR	Method:Back hoe	
Lat/Long: 32.038822,-103.466518		Field Screening: Chloride, PID		Hole Diameter: N/A	Total Depth:2 ft
Comments: Includes the c	correction factor of 1.				
		, ,			
Moisture Content Chloride (ppm) Vapor (ppm)	Staining Sample #	Sample Depth (ft bgs)	USCS/Rock Symbol	Lithology	y/Remarks
M <130 1	N BH09		Non Pla	raded sand with silt and g stic fines,dark brown	gravel,moist,no stain,no odor
M <130 0.0	Ν	2 2	SP-SM SAA TD @ 2	6. I	

# wsp

	PHOTOGRAPHIC LOG	
Lucid Energy Delaware	Rattlesnake SWD Pump	NRM1929839706
	Eddy County, New Mexico	

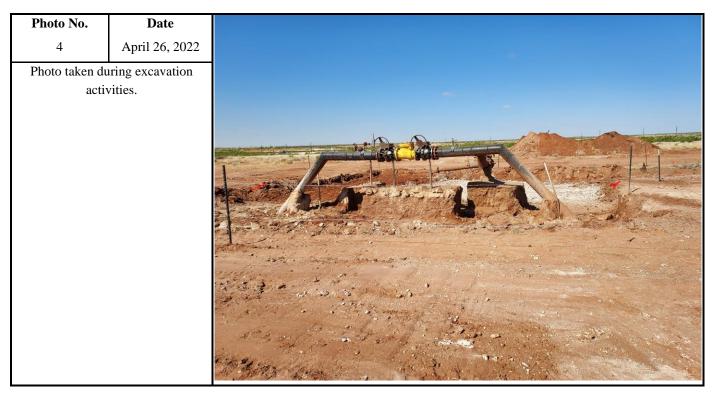




# wsp

	PHOTOGRAPHIC LOG	
Lucid Energy Delaware	Rattlesnake SWD Pump	NRM1929839706
	Eddy County, New Mexico	







May 09, 2022

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

RE: Rattlesnake SWD Pump

OrderNo.: 2204C67

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Michael Gant:

Hall Environmental Analysis Laboratory received 4 sample(s) on 4/28/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com 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

**CLIENT:** Lucid Energy

Analytical Report Lab Order 2204C67

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/9/2022 Client Sample ID: SW01 Collection Date: 4/25/2022 2:50:00 PM

Project:	Rattlesnake SWD Pump		Colle	ction Date:	4/25/2	022 2:50:00 PM
Lab ID:	2204C67-001	Matrix: SOIL	Rece	eived Date:	4/28/2	022 2:45:00 PM
Analyses		Result	RL Qu	al Units	DF	Date Analyzed
EPA ME	THOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst: ED
Diesel R	ange Organics (DRO)	ND	9.3	mg/Kg	1	5/3/2022 8:47:10 PM
Motor O	I Range Organics (MRO)	ND	47	mg/Kg	1	5/3/2022 8:47:10 PM
Surr:	DNOP	98.4	51.1-141	%Rec	1	5/3/2022 8:47:10 PM
EPA ME	THOD 8015D: GASOLINE RAN	IGE				Analyst: NSB
Gasoline	Range Organics (GRO)	ND	4.8	mg/Kg	1	5/2/2022 6:53:35 PM
Surr:	BFB	97.2	37.7-212	%Rec	1	5/2/2022 6:53:35 PM
EPA ME	THOD 8021B: VOLATILES					Analyst: NSB
Benzene		ND	0.024	mg/Kg	1	5/2/2022 6:53:35 PM
Toluene		ND	0.048	mg/Kg	1	5/2/2022 6:53:35 PM
Ethylber	izene	ND	0.048	mg/Kg	1	5/2/2022 6:53:35 PM
Xylenes,	Total	ND	0.096	mg/Kg	1	5/2/2022 6:53:35 PM
Surr:	4-Bromofluorobenzene	97.1	70-130	%Rec	1	5/2/2022 6:53:35 PM
EPA ME	THOD 300.0: ANIONS					Analyst: JMT
Chloride		240	60	mg/Kg	20	5/5/2022 12:15:01 AM

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

**Qualifiers:** 

- Value exceeds Maximum Contaminant Level.
   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 Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 8

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Rattlesnake SWD Pump

2204C67-002

**Project:** 

Lab ID:

Analytical Report Lab Order 2204C67

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/9/2022 Client Sample ID: SW02 Collection Date: 4/25/2022 2:55:00 PM

Received Date: 4/28/2022 2:45:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/3/2022 9:11:41 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/3/2022 9:11:41 PM
Surr: DNOP	98.4	51.1-141	%Rec	1	5/3/2022 9:11:41 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/2/2022 7:17:02 PM
Surr: BFB	97.3	37.7-212	%Rec	1	5/2/2022 7:17:02 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	5/2/2022 7:17:02 PM
Toluene	ND	0.047	mg/Kg	1	5/2/2022 7:17:02 PM
Ethylbenzene	ND	0.047	mg/Kg	1	5/2/2022 7:17:02 PM
Xylenes, Total	ND	0.094	mg/Kg	1	5/2/2022 7:17:02 PM
Surr: 4-Bromofluorobenzene	97.9	70-130	%Rec	1	5/2/2022 7:17:02 PM
EPA METHOD 300.0: ANIONS					Analyst: <b>JMT</b>
Chloride	200	60	mg/Kg	20	5/5/2022 12:27:25 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 interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 8

Rattlesnake SWD Pump

2204C67-003

**Project:** 

Lab ID:

Analytical Report Lab Order 2204C67

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/9/2022 Client Sample ID: SW03 Collection Date: 4/26/2022 11:10:00 AM Pageived Date: 4/28/2022 2:45:00 PM

Received Date: 4/28/2022 2:45:00 PM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/3/2022 9:36:23 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/3/2022 9:36:23 PM
Surr: DNOP	92.5	51.1-141	%Rec	1	5/3/2022 9:36:23 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/2/2022 7:40:33 PM
Surr: BFB	97.3	37.7-212	%Rec	1	5/2/2022 7:40:33 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	5/2/2022 7:40:33 PM
Toluene	ND	0.049	mg/Kg	1	5/2/2022 7:40:33 PM
Ethylbenzene	ND	0.049	mg/Kg	1	5/2/2022 7:40:33 PM
Xylenes, Total	ND	0.097	mg/Kg	1	5/2/2022 7:40:33 PM
Surr: 4-Bromofluorobenzene	96.0	70-130	%Rec	1	5/2/2022 7:40:33 PM
EPA METHOD 300.0: ANIONS					Analyst: <b>JMT</b>
Chloride	270	60	mg/Kg	20	5/5/2022 12:39:50 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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 8

Analytical Report Lab Order 2204C67

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/9/2022 Client Sample ID: SW04 Collection Date: 4/26/2022 11:15:00 AM

Project:	Rattlesnake SWD Pump	Collection Date: 4/26/2022 11:15:00 AM												
Lab ID:	2204C67-004	Matrix: SOIL												
Analyses		Result	RL Qua	DF	Date Analyzed									
EPA ME	THOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: ED								
Diesel R	ange Organics (DRO)	ND	10	mg/Kg	1	5/3/2022 10:00:59 PM								
Motor O	il Range Organics (MRO)	ND	50	mg/Kg	1	5/3/2022 10:00:59 PM								
Surr:	DNOP	86.1	51.1-141	%Rec	1	5/3/2022 10:00:59 PM								
EPA ME	THOD 8015D: GASOLINE RAN	GE				Analyst: NSB								
Gasoline	e Range Organics (GRO)	ND	4.9	mg/Kg	1	5/2/2022 8:03:55 PM								
Surr:	BFB	98.6	37.7-212	%Rec	1	5/2/2022 8:03:55 PM								
EPA ME	THOD 8021B: VOLATILES					Analyst: NSB								
Benzene	9	ND	0.025	mg/Kg	1	5/2/2022 8:03:55 PM								
Toluene		ND	0.049	mg/Kg	1	5/2/2022 8:03:55 PM								
Ethylber	izene	ND	0.049	mg/Kg	1	5/2/2022 8:03:55 PM								
Xylenes,	Total	ND	0.098	mg/Kg	1	5/2/2022 8:03:55 PM								
Surr:	4-Bromofluorobenzene	96.3	70-130	%Rec	1	5/2/2022 8:03:55 PM								
EPA ME	THOD 300.0: ANIONS					Analyst: JMT								
Chloride		250	60	mg/Kg	20	5/5/2022 12:52:15 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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 8

Client: Project:	Lucid E Rattlesr	nergy ake SWD Pu	mp								
Sample ID: M	B-67266	SampTy	be: <b>ml</b>	olk	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID: PI	BS	Batch I	D: 67	266	F	RunNo: 87	7761				
Prep Date: 5	5/4/2022	Analysis Dat	ie: 5/	4/2022	S	SeqNo: 31	108607	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID: LC	CS-67266	SampTy	be: Ics	6	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID: LC	CSS	Batch I	D: 67	266	F	RunNo: 87	7761				
Prep Date: 5	5/4/2022	Analysis Dat	ie: 5/	4/2022	S	SeqNo: 31	108608	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	94.1	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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

2204C67

09-May-22

WO#:

Client: Lucid E Project: Rattlesn	nergy ake SWD P	ump								
Sample ID: MB-67173	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batcl	n ID: 67	173	F	RunNo: 8	7671				
Prep Date: 4/29/2022	Analysis D	0ate: 5/	3/2022	S	SeqNo: 3	104297	Units: mg/K	g		
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	5.3		10.00		52.8	51.1	141			
Sample ID: LCS-67173	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batcl	n ID: 67	173	F	RunNo: 8	7671				
Prep Date: 4/29/2022	Analysis D	)ate: 5/	3/2022	S	SeqNo: 3	106761	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.7	68.9	135			
Surr: DNOP	2.6		5.000		52.5	51.1	141			

**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 Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

2204C67

09-May-22

WO#:

Page 6 of 8

	Energy snake SWD Pump			
Sample ID: mb-67165	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range	9
Client ID: PBS	Batch ID: 67165	RunNo: 87658		
Prep Date: 4/29/2022	Analysis Date: 5/2/2022	Units: <b>mg/Kg</b>		
Analyte	Result PQL SPK valu	e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Gasoline Range Organics (GRO)	ND 5.0			
Surr: BFB	980 100	0 97.9 37.7	212	
Sample ID: Ics-67165	SampType: LCS	TestCode: EPA Method	l 8015D: Gasoline Range	9
Client ID: LCSS	Batch ID: 67165	RunNo: 87658		
Prep Date: 4/29/2022	Analysis Date: 5/2/2022	SeqNo: 3103517	Units: <b>mg/Kg</b>	
Analyte	Result PQL SPK valu	e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Gasoline Range Organics (GRO)	24 5.0 25.0	0 0 94.5 72.3	137	
Surr: BFB	2000 100	0 200 37.7	212	

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

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WO#: 2204C67 09-May-22

Client:	Lucid Energy									
Project:	Rattlesnake SWD	Pump								
Sample ID: mb-6716	5 Samp	Type: ME	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: PBS	Bate	ch ID: 67	165	F	RunNo: 87	7658				
Prep Date: 4/29/20	22 Analysis	Date: 5/	2/2022	S	SeqNo: 3	03563	Units: mg/K	g		
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-Bromofluoroben:	zene 0.95		1.000		95.4	70	130			
Sample ID: LCS-671	65 Samp	Type: LC	S	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: LCSS	Bate	ch ID: 67	165	F	RunNo: 87	7658				
Prep Date: 4/29/20	22 Analysis	Date: 5/	2/2022	S	SeqNo: 3	103564	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.025	1.000	0	80.1	80	120			
Toluene	0.84	0.050	1.000	0	84.3	80	120			
Ethylbenzene	0.85	0.050	1.000	0	85.4	80	120			
Xylenes, Total	2.6	0.10	3.000	0	86.2	80	120			
Surr: 4-Bromofluoroben:	zene 0.99		1.000		99.0	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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

WO#:	2204C67

09-May-22

	<b>Received</b>	bv	OCD:	5/26/	2022	12:00:55	PM
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HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-2	ntal Analysis Labord 4901 Hawkin Albuquerque, NM 8 8975 FAX: 505-345- w.hallenvironmental	nple Log-In Check List						
Client Name: Lucid Energy	Work Order Num	ber: 2204C67		RcptNo:	1				
Received By: Desiree Dominguez Completed By: Desiree Dominguez Reviewed By: JN 4/28/22	4/28/2022 2:45:00 4/28/2022 3:28:18		An An						
<u>Chain of Custody</u>									
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 🗌						
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes 🗹	No 🗌						
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌						
6. Sufficient sample volume for indicated test(s	)?	Yes 🖌	No 🗌						
7. Are samples (except VOA and ONG) proper	y 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 broke	n?	Yes	No 🗹	# of processed	/				
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗌	# of preserved bottles checked for pH: (<2 or >1	2 unless noted)				
12. Are matrices correctly identified on Chain of	Custody?	Yes 🔽	No 🗌	Adjusted?					
13. Is it clear what analyses were requested?		Yes 🗹	No 🗌		0,				
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗌	Checked by:	4 4-28-22				
Special Handling (if applicable)				0					
15. Was client notified of all discrepancies with t	his order?	Yes	No 🗌	NA 🗹					
Person Notified: By Whom: Regarding: Client Instructions: 16. Additional remarks:	Date: Via:		none 🗌 Fax	In Person					

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.4	Good		- Control Control Control of Cont		<b>.</b>

C	Chain	-of-Cı	ustody Record	Turn-Around	d Time:		] .		6.2.3								÷			
Client:			Energy Group	- E Standar	d 🛱 Rusi	5 Day			E											AL RY
		Mich	ael Gant	Project Nam				Pe										KA		ĸĭ
Mailing	Address	<sup>3:</sup> 201	S 4th Artesia, NM 88210	Rattlesna	ke SWD Pu	mp		10	001 1	Jawi						ntal.o	com NM 8	7100	h	
				Project #:			1			05-3							5-41		,	
Phone	#:575-81	0-6144		314036	31403665.009				ei. 5	00-0	43-0	-	and the second second	-		ques		57		
email c	or Fax#: n	ngant@luo	cid-energy.com	Project Man	ager:			Ô					SO4							
QA/QC	Package:			Travis L. (	Casey		TMB's (8021)	MRG	PCB's		٩S		4, S(			Coliform (Present/Absent)				
□ Star	ndard		□ Level 4 (Full Validation)				3's (8	102	PC		8270SIMS		PO4,			It/Al				
Accred			ompliance	Sampler:			TME	/ DF	082	(1)	827		NO <sub>2</sub> ,			esei				
	_AC D (Type) _	□ Other		On Ice: # of Coolers	🕅 Yes	□ No	-	RO	es/8	504.1)		als			(OA)	Pr				
	<u>  (Type)</u>					1+0.0=2.42	ATB	D)O	ticid	(Method	831	Meta	NO <sub>3</sub> ,	A)	(Semi-VOA)	form				
					di di	100-2.10	2	3015	Pes	(Met	þ	A 8	Br,	NO	(Sei	Coli				
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL NO. 2204067	BTEX / MTBE	TPH:8015D(GR0 / DR0 / MR0)	8081 Pesticides/8082	EDB	PAHs by 8310 or	RCRA 8 Metals	CI, F,	8260 (VOA)	8270	Total				
4/25/2022	100 N 100000	S	SW01		Туре	-001		F	8	ш	<u> </u>	œ	0	8	80	н	+	+	+	
	14:55	S	SW02			- 002						_		5				+		
	11:10	S	SW03			- 003												+	+	
	11:15	S	SW04			- 004												+	+	
4/25/2022						001	-		_				_					+	+-	+ +
4/25/2022										_										
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Date:		Relinquishe		Received by:	Via:	Date Time	Ren	nark	s:					1						
4/27/2022		itte		alu	ing	427/22 1038				Luc		nerg	ју							
Date:	Time:	Relinquishe	ed by:	Received by:	Via:	Date Time				2115 860										
1/20 /20	1900	aa		UD3	Courier	4.28.22 14:45	Sen	nd co	onfiri	matio	on a	nd la	ab re	epor	t to j	joe.h	nerna	ndez	@ws	p.com

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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Received by OCD: 5/26/2022 12:00:55 PM



May 10, 2022

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

RE: Rattlesnake SWD Pump

OrderNo.: 2204C68

Hall Environmental Analysis Laboratory

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

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Michael Gant:

Hall Environmental Analysis Laboratory received 18 sample(s) on 4/28/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com 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,

Ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

**Project:** 

Lab ID:

Analyses

**Analytical Report** Lab Order 2204C68

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/10/2022 **CLIENT:** Lucid Energy Client Sample ID: BH01 Rattlesnake SWD Pump Collection Date: 4/25/2022 12:30:00 PM 2204C68-001 Matrix: SOIL Received Date: 4/28/2022 2:45:00 PM Result **RL** Qual Units DF **Date Analyzed** EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: ED Diesel Range Organics (DRO) ND 9.1 mg/Kg 1 5/3/2022 10:25:37 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 5/3/2022 10:25:37 PM Surr: DNOP 85.8 51.1-141 %Rec 1 5/3/2022 10:25:37 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5/2/2022 9:14:27 PM 5.0 mg/Kg 1 96.7 37.7-212 %Rec 1 5/2/2022 9:14:27 PM Analyst: NSB ND 5/2/2022 9:14:27 PM 0.025 mg/Kg 1

Surr: BFB **EPA METHOD 8021B: VOLATILES** Benzene Toluene ND 0.050 mg/Kg 1 5/2/2022 9:14:27 PM Ethylbenzene ND 0.050 mg/Kg 1 5/2/2022 9:14:27 PM Xylenes, Total ND mg/Kg 5/2/2022 9:14:27 PM 0.099 1 Surr: 4-Bromofluorobenzene 95.7 70-130 %Rec 1 5/2/2022 9:14:27 PM **EPA METHOD 300.0: ANIONS** Analyst: CAS Chloride mg/Kg 5/4/2022 2:45:49 AM 210 60 20

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

- POL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- в Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 25

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Rattlesnake SWD Pump

2204C68-002

**Project:** 

Lab ID:

Analytical Report Lab Order 2204C68

Date Reported: 5/10/2022

### Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH01A Collection Date: 4/25/2022 12:35:00 PM Received Date: 4/28/2022 2:45:00 PM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/3/2022 10:50:07 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/3/2022 10:50:07 PM
Surr: DNOP	82.2	51.1-141	%Rec	1	5/3/2022 10:50:07 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/2/2022 9:37:57 PM
Surr: BFB	99.9	37.7-212	%Rec	1	5/2/2022 9:37:57 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	5/2/2022 9:37:57 PM
Toluene	ND	0.049	mg/Kg	1	5/2/2022 9:37:57 PM
Ethylbenzene	ND	0.049	mg/Kg	1	5/2/2022 9:37:57 PM
Xylenes, Total	ND	0.097	mg/Kg	1	5/2/2022 9:37:57 PM
Surr: 4-Bromofluorobenzene	97.8	70-130	%Rec	1	5/2/2022 9:37:57 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	480	60	mg/Kg	20	5/4/2022 2:58:14 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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/10/2022

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Lucid Energy Client Sample ID: BH02 **Project:** Rattlesnake SWD Pump Collection Date: 4/25/2022 12:40:00 PM Lab ID: 2204C68-003 Matrix: SOIL Received Date: 4/28/2022 2:45:00 PM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: ED EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 9.3 mg/Kg 1 5/3/2022 11:14:40 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 5/3/2022 11:14:40 PM Surr: DNOP 88.6 51.1-141 %Rec 1 5/3/2022 11:14:40 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5/2/2022 10:01:33 PM 5.0 mg/Kg 1 Surr: BFB 96.2 37.7-212 %Rec 1 5/2/2022 10:01:33 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 5/2/2022 10:01:33 PM 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 5/2/2022 10:01:33 PM Ethylbenzene ND 0.050 mg/Kg 1 5/2/2022 10:01:33 PM Xylenes, Total ND mg/Kg 1 5/2/2022 10:01:33 PM 0.10 Surr: 4-Bromofluorobenzene 96.8 70-130 %Rec 1 5/2/2022 10:01:33 PM **EPA METHOD 300.0: ANIONS** Analyst: CAS Chloride mg/Kg 5/4/2022 3:10:38 AM 130 60 20

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 interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 5/10/2022

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Lucid Energy Client Sample ID: BH02A **Project:** Rattlesnake SWD Pump Collection Date: 4/25/2022 12:45:00 PM Lab ID: 2204C68-004 Matrix: SOIL Received Date: 4/28/2022 2:45:00 PM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: ED EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 8.3 mg/Kg 1 5/3/2022 5:31:49 AM Motor Oil Range Organics (MRO) ND 42 mg/Kg 1 5/3/2022 5:31:49 AM Surr: DNOP 52.6 51.1-141 %Rec 1 5/3/2022 5:31:49 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 5/2/2022 9:12:00 PM 5.0 mg/Kg 1 Surr: BFB 103 37.7-212 %Rec 1 5/2/2022 9:12:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 5/2/2022 9:12:00 PM 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 5/2/2022 9:12:00 PM Ethylbenzene ND 0.050 mg/Kg 1 5/2/2022 9:12:00 PM Xylenes, Total ND mg/Kg 5/2/2022 9:12:00 PM 0.10 1 Surr: 4-Bromofluorobenzene 81.5 70-130 %Rec 1 5/2/2022 9:12:00 PM **EPA METHOD 300.0: ANIONS** Analyst: CAS Chloride mg/Kg 5/4/2022 3:23:03 AM 260 60 20

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 interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 5/10/2022

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Lucid Energy Client Sample ID: BH03 **Project:** Rattlesnake SWD Pump Collection Date: 4/25/2022 1:45:00 PM Lab ID: 2204C68-005 Matrix: SOIL Received Date: 4/28/2022 2:45:00 PM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: ED EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 9.3 mg/Kg 1 5/3/2022 5:56:07 AM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 5/3/2022 5:56:07 AM Surr: DNOP 55.1 51.1-141 %Rec 1 5/3/2022 5:56:07 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 5/2/2022 10:11:00 PM 5.0 mg/Kg 1 Surr: BFB 103 37.7-212 %Rec 1 5/2/2022 10:11:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 5/2/2022 10:11:00 PM 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 5/2/2022 10:11:00 PM Ethylbenzene ND 0.050 mg/Kg 1 5/2/2022 10:11:00 PM Xylenes, Total ND mg/Kg 5/2/2022 10:11:00 PM 0.10 1 Surr: 4-Bromofluorobenzene 84.4 70-130 %Rec 1 5/2/2022 10:11:00 PM **EPA METHOD 300.0: ANIONS** Analyst: CAS Chloride mg/Kg 5/4/2022 3:35:28 AM 66 59 20

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

- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Rattlesnake SWD Pump

**Project:** 

Chloride

Analytical Report Lab Order 2204C68

5/4/2022 4:12:41 AM

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/10/2022 Client Sample ID: BH03A Collection Date: 4/25/2022 1:50:00 PM

Lab ID: 2204C68-006 Matrix: SOIL Received Date: 4/28/2022 2:45:00 PM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: ED EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 9.8 mg/Kg 1 5/3/2022 6:20:09 AM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 5/3/2022 6:20:09 AM Surr: DNOP 59.8 51.1-141 %Rec 1 5/3/2022 6:20:09 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 5/2/2022 11:10:00 PM 4.9 mg/Kg 1 Surr: BFB 102 37.7-212 %Rec 1 5/2/2022 11:10:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 5/2/2022 11:10:00 PM 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 5/2/2022 11:10:00 PM Ethylbenzene ND 0.049 mg/Kg 1 5/2/2022 11:10:00 PM Xylenes, Total ND 0.098 mg/Kg 1 5/2/2022 11:10:00 PM Surr: 4-Bromofluorobenzene 82.0 70-130 %Rec 1 5/2/2022 11:10:00 PM **EPA METHOD 300.0: ANIONS** Analyst: CAS

170

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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits

mg/Kg

20

60

- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/10/2022

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Lucid Energy Client Sample ID: BH04 **Project:** Rattlesnake SWD Pump Collection Date: 4/25/2022 2:10:00 PM Lab ID: 2204C68-007 Matrix: SOIL Received Date: 4/28/2022 2:45:00 PM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: ED EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 9.2 mg/Kg 1 5/3/2022 6:44:27 AM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 5/3/2022 6:44:27 AM Surr: DNOP 55.2 51.1-141 %Rec 1 5/3/2022 6:44:27 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 5/2/2022 11:30:00 PM 4.9 mg/Kg 1 Surr: BFB 102 37.7-212 %Rec 1 5/2/2022 11:30:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 5/2/2022 11:30:00 PM 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 5/2/2022 11:30:00 PM Ethylbenzene ND 0.049 mg/Kg 1 5/2/2022 11:30:00 PM Xylenes, Total ND 0.098 mg/Kg 1 5/2/2022 11:30:00 PM Surr: 4-Bromofluorobenzene 81.9 70-130 %Rec 1 5/2/2022 11:30:00 PM **EPA METHOD 300.0: ANIONS** Analyst: CAS Chloride mg/Kg 5/4/2022 4:25:06 AM 75 60 20

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

- ND
- Not Detected at the Reporting Limit POL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference

в Analyte detected in the associated Method Blank

E Estimated value

- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 7 of 25

Н Holding times for preparation or analysis exceeded

Date Reported: 5/10/2022

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Lucid Energy Client Sample ID: BH04A **Project:** Rattlesnake SWD Pump Collection Date: 4/25/2022 2:15:00 PM Lab ID: 2204C68-008 Matrix: SOIL Received Date: 4/28/2022 2:45:00 PM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: ED EPA METHOD 8015M/D: DIESEL RANGE ORGANICS **Diesel Range Organics (DRO)** ND 9.5 mg/Kg 1 5/3/2022 7:08:34 AM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 5/3/2022 7:08:34 AM Surr: DNOP 56.6 51.1-141 %Rec 1 5/3/2022 7:08:34 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 5/2/2022 11:50:00 PM 4.8 mg/Kg 1 Surr: BFB 101 37.7-212 %Rec 1 5/2/2022 11:50:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 5/2/2022 11:50:00 PM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 5/2/2022 11:50:00 PM Ethylbenzene ND 0.048 mg/Kg 1 5/2/2022 11:50:00 PM Xylenes, Total ND 0.097 mg/Kg 5/2/2022 11:50:00 PM 1 Surr: 4-Bromofluorobenzene 82.0 70-130 %Rec 1 5/2/2022 11:50:00 PM **EPA METHOD 300.0: ANIONS** Analyst: CAS Chloride mg/Kg 5/4/2022 4:37:30 AM 300 60 20

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 POL

Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

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

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Date Reported: 5/10/2022

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Lucid Energy Client Sample ID: BH05 **Project:** Rattlesnake SWD Pump Collection Date: 4/25/2022 2:30:00 PM Lab ID: 2204C68-009 Matrix: SOIL Received Date: 4/28/2022 2:45:00 PM Result **RL** Qual Units DF **Date Analyzed** Analyses Analyst: ED EPA METHOD 8015M/D: DIESEL RANGE ORGANICS **Diesel Range Organics (DRO)** ND 9.9 mg/Kg 1 5/3/2022 7:32:41 AM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 5/3/2022 7:32:41 AM Surr: DNOP 60.5 51.1-141 %Rec 1 5/3/2022 7:32:41 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 5/3/2022 12:10:00 AM 5.0 mg/Kg 1 Surr: BFB 104 37.7-212 %Rec 1 5/3/2022 12:10:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 5/3/2022 12:10:00 AM 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 5/3/2022 12:10:00 AM Ethylbenzene ND 0.050 mg/Kg 1 5/3/2022 12:10:00 AM Xylenes, Total ND mg/Kg 5/3/2022 12:10:00 AM 0.10 1 Surr: 4-Bromofluorobenzene 84.2 70-130 %Rec 1 5/3/2022 12:10:00 AM **EPA METHOD 300.0: ANIONS** Analyst: CAS Chloride mg/Kg 120 60 20 5/4/2022 4:49:55 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

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 Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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2204C68-010

**Diesel Range Organics (DRO)** 

Gasoline Range Organics (GRO)

Surr: 4-Bromofluorobenzene

**EPA METHOD 8021B: VOLATILES** 

**EPA METHOD 8015D: GASOLINE RANGE** 

Surr: DNOP

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

**Project:** 

Lab ID:

Analyses

**Analytical Report** Lab Order 2204C68

Analyst: BRM

Analyst: BRM

Analyst: CAS

5/3/2022 12:29:00 AM

5/4/2022 5:02:19 AM

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/10/2022 Client Sample ID: BH05A Rattlesnake SWD Pump Collection Date: 4/25/2022 2:35:00 PM Matrix: SOIL Received Date: 4/28/2022 2:45:00 PM Result **RL** Qual Units DF **Date Analyzed** EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: ED ND 9.1 mg/Kg 1 5/3/2022 7:56:41 AM Motor Oil Range Organics (MRO) ND 45 mg/Kg 1 5/3/2022 7:56:41 AM 59.9 51.1-141 %Rec 1 5/3/2022 7:56:41 AM

4.9

37.7-212

0.024

0.049

0.049

0.097

70-130

60

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

mg/Kg

1

1

1

1

1

1

1

20

ND

106

ND

ND

ND

ND

86.1

ND

EPA METHOD 300.0: A	NIONS
Chloride	

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
- Not Detected at the Reporting Limit ND
- POL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- в Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Analytical Report Lab Order 2204C68

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/10/2022
Client Sample ID: BH06

	25			1				
Project:	Rattlesnake SWD Pump		Collec	lection Date: 4/25/2022 2:40:00 PM				
Lab ID:	2204C68-011	Matrix: SOIL	Rece	ived Date:	4/28/2	022 2:45:00 PM		
Analyses		Result	RL Qu	al Units	DF	Date Analyzed		
EPA ME	THOD 8015M/D: DIESEL RAN	GE ORGANICS				Analyst: SB		
Diesel R	Range Organics (DRO)	ND	9.6	mg/Kg	1	5/3/2022 4:14:03 PM		
Motor O	il Range Organics (MRO)	ND	48	mg/Kg	1	5/3/2022 4:14:03 PM		
Surr:	DNOP	82.7	51.1-141	%Rec	1	5/3/2022 4:14:03 PM		
EPA ME	THOD 8015D: GASOLINE RA	NGE				Analyst: BRM		
Gasoline	e Range Organics (GRO)	ND	5.0	mg/Kg	1	5/3/2022 12:49:00 AM		
Surr:	BFB	104	37.7-212	%Rec	1	5/3/2022 12:49:00 AM		
EPA ME	THOD 8021B: VOLATILES					Analyst: BRM		
Benzene	e	ND	0.025	mg/Kg	1	5/3/2022 12:49:00 AM		
Toluene	•	ND	0.050	mg/Kg	1	5/3/2022 12:49:00 AM		
Ethylber	nzene	ND	0.050	mg/Kg	1	5/3/2022 12:49:00 AM		
Xylenes	, Total	ND	0.10	mg/Kg	1	5/3/2022 12:49:00 AM		
Surr:	4-Bromofluorobenzene	85.9	70-130	%Rec	1	5/3/2022 12:49:00 AM		
EPA ME	THOD 300.0: ANIONS					Analyst: JMT		
Chloride	9	230	60	mg/Kg	20	5/5/2022 1:04:39 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 interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 5/10/2022

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Lucid Energy Client Sample ID: BH06A **Project:** Rattlesnake SWD Pump Collection Date: 4/25/2022 2:45:00 PM Lab ID: 2204C68-012 Matrix: SOIL Received Date: 4/28/2022 2:45:00 PM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: SB **Diesel Range Organics (DRO)** ND 9.9 mg/Kg 1 5/3/2022 4:24:55 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 5/3/2022 4:24:55 PM Surr: DNOP 123 51.1-141 %Rec 1 5/3/2022 4:24:55 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 5/3/2022 1:09:00 AM 4.9 mg/Kg 1 Surr: BFB 105 37.7-212 %Rec 1 5/3/2022 1:09:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 5/3/2022 1:09:00 AM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 5/3/2022 1:09:00 AM Ethylbenzene ND 0.049 mg/Kg 1 5/3/2022 1:09:00 AM Xylenes, Total ND 0.098 mg/Kg 1 5/3/2022 1:09:00 AM Surr: 4-Bromofluorobenzene 84.7 70-130 %Rec 1 5/3/2022 1:09:00 AM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride mg/Kg 5/5/2022 1:17:03 AM 240 60 20

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 interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Project: Rattlesnake SWD Pump

Analytical Report Lab Order 2204C68

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/10/2022 Client Sample ID: BH07 Collection Date: 4/25/2022 2:50:00 PM

Lab ID: 2204C68-013	Matrix: SOIL	R	<b>Received Date:</b> 4/28/2022 2:45:00 PM			
Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/3/2022 4:35:46 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/3/2022 4:35:46 PM
Surr: DNOP	155	51.1-141	S	%Rec	1	5/3/2022 4:35:46 PM
EPA METHOD 8015D: GASOLINE RANG	E					Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/3/2022 1:29:00 AM
Surr: BFB	104	37.7-212		%Rec	1	5/3/2022 1:29:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	5/3/2022 1:29:00 AM
Toluene	ND	0.050		mg/Kg	1	5/3/2022 1:29:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	5/3/2022 1:29:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	5/3/2022 1:29:00 AM
Surr: 4-Bromofluorobenzene	82.0	70-130		%Rec	1	5/3/2022 1:29:00 AM
EPA METHOD 300.0: ANIONS						Analyst: <b>JMT</b>
Chloride	83	60		mg/Kg	20	5/5/2022 1:29:28 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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/10/2022

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Lucid Energy Client Sample ID: BH07A **Project:** Rattlesnake SWD Pump Collection Date: 4/25/2022 2:55:00 PM Lab ID: 2204C68-014 Matrix: SOIL Received Date: 4/28/2022 2:45:00 PM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: SB **Diesel Range Organics (DRO)** ND 9.4 mg/Kg 1 5/3/2022 4:46:35 PM Motor Oil Range Organics (MRO) 5/3/2022 4:46:35 PM ND 47 mg/Kg 1 Surr: DNOP 128 51.1-141 %Rec 1 5/3/2022 4:46:35 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 5/3/2022 2:28:00 AM 4.8 mg/Kg 1 Surr: BFB 96.9 37.7-212 %Rec 1 5/3/2022 2:28:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 5/3/2022 2:28:00 AM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 5/3/2022 2:28:00 AM Ethylbenzene ND 0.048 mg/Kg 1 5/3/2022 2:28:00 AM Xylenes, Total ND 0.096 mg/Kg 5/3/2022 2:28:00 AM 1 Surr: 4-Bromofluorobenzene 80.5 70-130 %Rec 1 5/3/2022 2:28:00 AM **EPA METHOD 300.0: ANIONS** Analyst: LRN Chloride mg/Kg 5/4/2022 7:29:13 PM 120 60 20

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

в Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 14 of 25

**Project:** 

Lab ID:

Analyses

Surr: DNOP

Surr: BFB

Benzene

Toluene

Chloride

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

**EPA METHOD 300.0: ANIONS** 

**Analytical Report** Lab Order 2204C68

5/3/2022 2:47:00 AM

5/4/2022 7:41:37 PM

Analyst: LRN

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/10/2022 **CLIENT:** Lucid Energy Client Sample ID: BH08 Rattlesnake SWD Pump Collection Date: 4/25/2022 3:05:00 PM 2204C68-015 Matrix: SOIL Received Date: 4/28/2022 2:45:00 PM Result **RL** Qual Units DF **Date Analyzed** Analyst: SB EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) 640 9.9 mg/Kg 1 5/3/2022 4:57:24 PM Motor Oil Range Organics (MRO) 5/3/2022 4:57:24 PM ND 49 mg/Kg 1 124 51.1-141 %Rec 1 5/3/2022 4:57:24 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 5/3/2022 2:47:00 AM 5.0 mg/Kg 1 100 37.7-212 %Rec 1 5/3/2022 2:47:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: BRM

0.025

0.050

0.050

0.099

70-130

60

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

mg/Kg

1

1

1

1

1

20

ND

ND

ND

ND

80.2

1300

Refer to the OC Summary rep	port and sample login	checklist for flagged QC data a	and preservation information.

**Qualifiers:** 

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

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- Analyte detected in the associated Method Blank в
- E Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Н Holding times for preparation or analysis exceeded

Project: Rattlesnake SWD Pump

Analytical Report Lab Order 2204C68

### Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/10/2022 Client Sample ID: BH08A Collection Date: 4/25/2022 3:10:00 PM

Lab ID: 2204C68-016	Matrix: SOIL	Rece	leceived Date: 4/28/2022 2:45:00 PM			
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst: <b>SB</b>	
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/3/2022 5:08:13 PM	
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/3/2022 5:08:13 PM	
Surr: DNOP	105	51.1-141	%Rec	1	5/3/2022 5:08:13 PM	
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst: BRM	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/3/2022 3:07:00 AM	
Surr: BFB	99.0	37.7-212	%Rec	1	5/3/2022 3:07:00 AM	
EPA METHOD 8021B: VOLATILES					Analyst: BRM	
Benzene	ND	0.025	mg/Kg	1	5/3/2022 3:07:00 AM	
Toluene	ND	0.050	mg/Kg	1	5/3/2022 3:07:00 AM	
Ethylbenzene	ND	0.050	mg/Kg	1	5/3/2022 3:07:00 AM	
Xylenes, Total	ND	0.10	mg/Kg	1	5/3/2022 3:07:00 AM	
Surr: 4-Bromofluorobenzene	81.9	70-130	%Rec	1	5/3/2022 3:07:00 AM	
EPA METHOD 300.0: ANIONS					Analyst: LRN	
Chloride	1000	60	mg/Kg	20	5/4/2022 7:54:03 PM	

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

**Qualifiers:** 

Value exceeds Maximum Contaminant Level.
 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 Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Rattlesnake SWD Pump

2204C68-017

**Project:** 

Lab ID:

Analytical Report Lab Order 2204C68

### Hall Environmental Analysis Laboratory, Inc.

 Client Sample ID: BH09

 Collection Date: 4/25/2022 3:35:00 PM

 Matrix: SOIL
 Received Date: 4/28/2022 2:45:00 PM

 Result
 PL
 Ouel
 Units
 DE
 Date Analyzed

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: <b>SB</b>
Diesel Range Organics (DRO)	17	9.5	mg/Kg	1	5/3/2022 5:19:02 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/3/2022 5:19:02 PM
Surr: DNOP	98.6	51.1-141	%Rec	1	5/3/2022 5:19:02 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/3/2022 3:27:00 AM
Surr: BFB	105	37.7-212	%Rec	1	5/3/2022 3:27:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	5/3/2022 3:27:00 AM
Toluene	ND	0.049	mg/Kg	1	5/3/2022 3:27:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	5/3/2022 3:27:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	5/3/2022 3:27:00 AM
Surr: 4-Bromofluorobenzene	81.9	70-130	%Rec	1	5/3/2022 3:27:00 AM
EPA METHOD 300.0: ANIONS					Analyst: LRN
Chloride	ND	60	mg/Kg	20	5/4/2022 8:06:27 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 interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/10/2022

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Lucid Energy Client Sample ID: BH09A **Project:** Rattlesnake SWD Pump Collection Date: 4/25/2022 3:38:00 PM Lab ID: 2204C68-018 Matrix: SOIL Received Date: 4/28/2022 2:45:00 PM Result **RL** Qual Units DF **Date Analyzed** Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: SB **Diesel Range Organics (DRO)** ND 9.5 mg/Kg 1 5/3/2022 5:29:48 PM Motor Oil Range Organics (MRO) 5/3/2022 5:29:48 PM ND 48 mg/Kg 1 Surr: DNOP 131 51.1-141 %Rec 1 5/3/2022 5:29:48 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 5/3/2022 3:47:00 AM 4.9 mg/Kg 1 Surr: BFB 101 37.7-212 %Rec 1 5/3/2022 3:47:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 5/3/2022 3:47:00 AM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 5/3/2022 3:47:00 AM Ethylbenzene ND 0.049 mg/Kg 1 5/3/2022 3:47:00 AM Xylenes, Total ND 0.098 mg/Kg 1 5/3/2022 3:47:00 AM Surr: 4-Bromofluorobenzene 82.8 70-130 %Rec 1 5/3/2022 3:47:00 AM **EPA METHOD 300.0: ANIONS** Analyst: LRN Chloride mg/Kg 5/4/2022 8:18:52 PM ND 60 20

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

- ND
- Not Detected at the Reporting Limit POL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- в Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Н Holding times for preparation or analysis exceeded

Lucid Energy

**Client:** 

**Project:** 

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

Rattlesnake SWD Pump

Sample ID:	MB-67244	SampType: mblk	TestCode: EPA Method 300.0: Anions	
Client ID:	PBS	Batch ID: 67244	RunNo: 87665	
Prep Date:	5/3/2022	Analysis Date: 5/3/2022	SeqNo: 3106432 Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Chloride		ND 1.5		
Sample ID:	LCS-67244	SampType: Ics	TestCode: EPA Method 300.0: Anions	
Client ID:	LCSS	Batch ID: 67244	RunNo: 87665	
Prep Date:	5/3/2022	Analysis Date: 5/3/2022	SeqNo: 3106433 Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Chloride		14 1.5 15.00	0 93.0 90 110	
Sample ID:	MB-67267	SampType: <b>mblk</b>	TestCode: EPA Method 300.0: Anions	
Client ID:	PBS	Batch ID: 67267	RunNo: 87756	
Prep Date:	5/4/2022	Analysis Date: 5/4/2022	SeqNo: 3108183 Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Chloride		ND 1.5		
Sample ID:	LCS-67267	SampType: Ics	TestCode: EPA Method 300.0: Anions	
Client ID:	LCSS	Batch ID: 67267	RunNo: 87756	
Prep Date:	5/4/2022	Analysis Date: 5/4/2022	SeqNo: 3108184 Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Chloride		14 1.5 15.00	0 92.2 90 110	
Sample ID:	MB-67266	SampType: mblk	TestCode: EPA Method 300.0: Anions	
Client ID:	PBS	Batch ID: 67266	RunNo: 87761	
Prep Date:	5/4/2022	Analysis Date: 5/4/2022	SeqNo: 3108607 Units: mg/Kg	
Analyte	<b></b>	-	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Chloride		ND 1.5		Quu

Chloride		ND	1.5								
Sample ID:	LCS-67266	SampT	ype: Ics		Tes	tCode: EF	PA Method	300.0: Anions	6		
Client ID:	LCSS	Batch	n ID: 672	266	F	RunNo: <b>8</b> 7	7761				
Prep Date:	5/4/2022	Analysis D	)ate: 5/4	4/2022	Ş	SeqNo: 3	108608	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	94.1	90	110			

#### Qualifiers:

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

2204C68

10-May-22

WO#:

Lucid Energy

**Client:** 

**Project:** 

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

Rattlesnake SWD Pump

Sample ID: MB-67173	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch	n ID: 67	173	F	RunNo: <b>8</b>	7671				
Prep Date: 4/29/2022	Analysis D	ate: 5/	3/2022	S	SeqNo: 3	104297	Units: <b>mg/K</b>	g		
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	5.3		10.00		52.8	51.1	141			
Sample ID: MB-67195	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch	n ID: 67	195	F	RunNo: <b>8</b>	7671				
Prep Date: 5/2/2022	Analysis D	ate: 5/	2/2022	S	SeqNo: 3	104298	Units: <b>mg/K</b>	g		
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	5.2		10.00		52.4	51.1	141			
Sample ID: 2204C68-011AMS	SampT	уре: МS	6	Tes	tCode: E	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: BH06	Batch	n ID: 67	196	F	RunNo: <b>8</b>	7693				
Prep Date: 5/2/2022	Analysis D	ate: 5/	3/2022	S	SeqNo: 3	105174	Units: <b>mg/K</b>	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	9.9	49.55	9.408	97.5	36.1	154			
Surr: DNOP	4.7		4.955		95.7	51.1	141			
Sample ID: 2204C68-011AMSE	<b>)</b> SampT	уре: МS	SD	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: BH06	Batch	n ID: 67	196	F	RunNo: <b>8</b>	7693				
Prep Date: 5/2/2022	Analysis D	ate: 5/	3/2022	5	SeqNo: 3	105175	Units: <b>mg/K</b>	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	9.3	46.51	9.408	105	36.1	154	0.684	33.9	
Surr: DNOP	5.3		4.651		113	51.1	141	0	0	
Sample ID: LCS-67196	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch	ID: 67	196	F	RunNo: <b>8</b>	7693				
Prep Date: 5/2/2022	Analysis D	ate: 5/	3/2022	S	SeqNo: 3	105199	Units: <b>mg/K</b>	g		
1										- ·

Result

56

4.9

PQL

10

#### Qualifiers:

Analyte

Surr: DNOP

Diesel Range Organics (DRO)

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- в Analyte detected in the associated Method Blank

%REC

112

98.1

LowLimit

68.9

51.1

HighLimit

135

141

%RPD

RPDLimit

Qual

Е Estimated value

0

SPK value SPK Ref Val

50.00

5.000

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

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#### WO#: 2204C68 10-May-22

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#: <b>2204</b> C	WO#:
10-May-2	

	d Energy									
Project: Ratt	esnake SWD Pum	p								
Sample ID: MB-67196	SampType	E MBLK	Tes	stCode: EF	PA Method	8015M/D: Die	sel Range	Organics		
Client ID: PBS	Batch ID:	67196	F	RunNo: <b>87</b>	7693					
Prep Date: 5/2/2022	Analysis Date:	5/3/2022		SeqNo: 31	05200	Units: <b>mg/K</b>	g			
Analyte	Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRC	) ND	50								
Surr: DNOP	16	10.00		159	51.1	141			S	
Sample ID: LCS-67195	ample ID: LCS-67195 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: LCSS	Batch ID:	67195	F	RunNo: <b>87</b>	7694					
Prep Date: 5/2/2022	Analysis Date:	5/3/2022	Ş	SeqNo: 31	05598	Units: <b>mg/K</b>	g			
Analyte	Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	50	10 50.00	0	101	68.9	135				
Surr: DNOP	3.6	5.000		72.7	51.1	141				
Sample ID: LCS-67173	SampType	: LCS	Tes	stCode: EF	PA Method	8015M/D: Die	sel Range	Organics		
Client ID: LCSS	Batch ID:	67173	F	RunNo: 87	7671					
Prep Date: 4/29/2022	Analysis Date:	5/3/2022	\$	06761	Units: mg/K	g				
Analyte	Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	46	10 50.00	0	92.7	68.9	135				
Surr: DNOP	2.6	5.000		52.5	51.1	141				

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 Estimated value
- 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.

Client: Lucid En Project: Rattlesna	ergy ke SWD Pump								
Sample ID: mb-67165	SampType: ME	BLK	Tes	tCode: EF	A Method	8015D: Gasol	ine Range	)	
Client ID: PBS	Batch ID: 67	165	F	RunNo: <b>87</b>	658				
Prep Date: 4/29/2022	Analysis Date: 5/	2/2022	S	SeqNo: 31	03516	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5.0					-			
Surr: BFB	980	1000		97.9	37.7	212			
Sample ID: Ics-67165	SampType: LC	S	Tes	tCode: EP	A Method	8015D: Gasol	ine Range	•	
Client ID: LCSS	Batch ID: 67	165	F	RunNo: <b>87</b>	658				
Prep Date: 4/29/2022	Analysis Date: 5/	2/2022	S	SeqNo: 31	03517	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24 5.0	25.00	0	94.5	72.3	137			
Surr: BFB	2000	1000		200	37.7	212			
Sample ID: Ics-67167	SampType: LC	S	Tes	tCode: EP	A Method	8015D: Gasol	ine Range	•	
Client ID: LCSS	Batch ID: 67	Batch ID: 67167 RunNo: 87							
Prep Date: 4/29/2022	Analysis Date: 5/	2/2022	S	SeqNo: 31	03657	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28 5.0	25.00	0	111	72.3	137			
Surr: BFB	2300	1000		226	37.7	212			S
Sample ID: mb-67167	SampType: ME	BLK	Tes	tCode: EF	A Method	8015D: Gasol	ine Range	)	
Client ID: PBS	Batch ID: 67	167	F	RunNo: <b>87</b>	7661				
Prep Date: 4/29/2022	Analysis Date: 5/	2/2022	S	SeqNo: 31	03658	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5.0								
Surr: BFB	1000	1000		104	37.7	212			
Sample ID: 2204c68-004ams	SampType: MS	6	Tes	tCode: EP	PA Method	8015D: Gasol	ine Range	)	
Client ID: BH02A	Batch ID: 67	167	F	RunNo: <b>87</b>	661				
Prep Date: 4/29/2022	Analysis Date: 5/	2/2022	5	SeqNo: 31	03660	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25 4.9	24.27	0	102	70	130			
Surr: BFB	2000	970.9		210	37.7	212			
Sample ID: 2204c68-004amsd	SampType: MS	SD.	Tes	tCode: EP	A Method	8015D: Gasol	ine Range	•	
Client ID: BH02A	Batch ID: 67	167	F	RunNo: <b>87</b>	661				

Qualifiers:

Prep Date:

Analyte

Value exceeds Maximum Contaminant Level.

4/29/2022

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference S

Analysis Date: 5/2/2022

PQL

Result

в Analyte detected in the associated Method Blank

%REC

SeqNo: 3103661

LowLimit

Units: mg/Kg

HighLimit

%RPD

Е Estimated value

SPK value SPK Ref Val

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 22 of 25

RPDLimit

Qual

2204C68

10-May-22

WO#:

Lucid Energy

**Client:** 

**Project:** 

Rattlesnake SWD Pump

Sample ID: 2204c68-004amsc	I Samp	Туре: <b>МS</b>	D	Tes	tCode: EF	PA Method	8015D: Gaso	line Range	•	
Client ID: BH02A	Batc	h ID: 671	167	F	RunNo: 87	7661				
Prep Date: 4/29/2022	Analysis I	Date: <b>5/</b> 2	2/2022	S	SeqNo: 31	103661	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	24.85	0	105	70	130	5.76	20	
Surr: BFB	2200		994.0		218	37.7	212	0	0	S

Qualifiers:

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

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Client: Lucid End Project: Rattlesnal		Pump									
Sample ID: mb-67165	Samp	Гуре: МВ	LK	Tes	stCode: EF	A Method	8021B: Volat	iles			
Client ID: PBS	Batc	h ID: 671	65	F	RunNo: <b>87</b>	658					
Prep Date: 4/29/2022	Analysis [	Date: 5/2	2/2022	Ş	SeqNo: 31	03563	Units: mg/K	(g			
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	0.95		1.000		95.4	70	130				
Sample ID: LCS-67165	s	TestCode: EPA Method 8021B: Volatiles									
Client ID: LCSS	Batc	h ID: 671	65	F	RunNo: <b>87</b>	658					
Prep Date: 4/29/2022	Analysis [	Date: 5/2	2/2022	Ş	SeqNo: 31	03564	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.80	0.025	1.000	0	80.1	80	120				
Toluene	0.84	0.050	1.000	0	84.3	80	120				
Ethylbenzene	0.85	0.050	1.000	0	85.4	80	120				
Xylenes, Total	2.6	0.10	3.000	0	86.2	80	120				
Surr: 4-Bromofluorobenzene	0.99		1.000		99.0	70	130				
Sample ID: Ics-67167	Samp	Гуре: <b>LC</b>	s	Tes	stCode: EF	PA Method	8021B: Volat	iles			
Client ID: LCSS	Batc	h ID: 671	67	F	RunNo: <b>87</b>	661					
Prep Date: 4/29/2022	Analysis [	Date: 5/2	2/2022	Ş	SeqNo: 31	03705	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.91	0.025	1.000	0	91.3	80	120				
Toluene	0.93	0.050	1.000	0	93.2	80	120				
Ethylbenzene	0.94	0.050	1.000	0	94.2	80	120				
Xylenes, Total	2.8	0.10	3.000	0	94.6	80	120				
Surr: 4-Bromofluorobenzene	0.82		1.000		82.4	70	130				
Sample ID: mb-67167	Samp	Гуре: МВ	LK	Tes	stCode: EF	A Method	8021B: Volat	iles			
Client ID: PBS	Batc	h ID: 671	67	F	RunNo: <b>87</b>	661					
Prep Date: 4/29/2022	Analysis [	Date: 5/2	2/2022	S	SeqNo: 31	03706	Units: mg/K	(g			
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	0.84		1.000		84.1	70	130				

#### Qualifiers:

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

Page 24 of 25

Lucid Energy

**Client:** 

**Project:** 

Client ID:

Sample ID: 2204c68-005ams

BH03

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

Rattlesnake SWD Pump

WO#: 2204C68

10-May-22

Prep Date: 4/29/2022 Analysis Date: 5/2/2022
--

SampType: MS

Batch ID: 67167

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.024	0.9747	0	82.1	68.8	120			
Toluene	0.83	0.049	0.9747	0	84.7	73.6	124			
Ethylbenzene	0.84	0.049	0.9747	0	85.9	72.7	129			
Xylenes, Total	2.5	0.097	2.924	0	85.8	75.7	126			
Surr: 4-Bromofluorobenzene	0.79		0.9747		81.4	70	130			
Sample ID: 2204c68-005amsd	SampType: MSD TestCode: EPA Method 8021B: Volatiles									

TestCode: EPA Method 8021B: Volatiles

Units: mg/Kg

RunNo: 87661

SeqNo: 3103709

Client ID: BH03	Batcl	n ID: 671	67	F	RunNo: 87					
Prep Date: 4/29/2022	Analysis E	Date: 5/2	2/2022	S	SeqNo: 31	103710	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.024	0.9718	0	86.0	68.8	120	4.35	20	
Toluene	0.86	0.049	0.9718	0	88.2	73.6	124	3.79	20	
Ethylbenzene	0.87	0.049	0.9718	0	89.7	72.7	129	3.99	20	
Xylenes, Total	2.6	0.097	2.915	0	89.5	75.7	126	3.96	20	
Surr: 4-Bromofluorobenzene	0.79		0.9718		81.5	70	130	0	0	

Qualifiers:

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

Page 25 of 25

Received by OCD: 5/26/2022 12:00:55 PM HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345	mental Analysis Labo 4901 Hawk Albuquerque, NM 5-3975 FAX: 505-34 ww.hallenvironment	ins NE 87109 <b>Sa</b> 5-4107	Sample Log-In Check List							
Client Name: Lucid Energy	Work Order Nu	mber: 2204C68		RcptNo: 1							
Received By: Desiree Dominguez	4/28/2022 2:45:0	0 PM	D								
Completed By: Desiree Dominguez	4/28/2022 3:33:4	3 PM	TR								
Reviewed By: Sza 4/28/22			113								
Chain of Custody											
1. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present							
2. How was the sample delivered?		Courier									
		ordinor									
Log In 3. Was an attempt made to cool the samples?		Yes 🖌	No 🗌								
4. Were all samples received at a temperature of	>0° C to 6.0°C	Yes 🖌	No 🗌								
5. Sample(s) in proper container(s)?		Yes 🔽	No 🗌								
6. Sufficient sample volume for indicated test(s)?		Yes 🔽									
7. Are samples (except VOA and ONG) properly p	reserved?	Yes 🗸	No 🗌 No 🗌								
8. Was preservative added to bottles?		Yes	No 🗹	NA 🗌							
0.5											
9. Received at least 1 vial with headspace <1/4" fo	r aq voa?	Yes	No 🗌	NA 🔽							
10. Were any sample containers received broken?		Yes	No 🔽	# of preserved							
<ol> <li>Does paperwork match bottle labels? (Note discrepancies on chain of custody)</li> </ol>		Yes 🔽	No 🗌	bottles checked for pH:							
12. Are matrices correctly identified on Chain of Cus	todv?	Yes 🔽	No 🗌	(<2 or >12 unles Adjusted?	s noted)						
3. Is it clear what analyses were requested?	,	Yes 🗸		, lujusicu :							
4. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🔽	No 🗌	Checked by: JAU	28/22						
Special Handling (if applicable)			~		· · ·						
15. Was client notified of all discrepancies with this o	order?	Yes	No 🗌	NA 🔽							
Person Notified:	Date:										
By Whom:	Via:										
Regarding:			ione 🗌 Fax	In Person							
Client Instructions:											
6. Additional remarks:		Annual Constant of Second Seco		a and and a second s							
17. <u>Cooler Information</u> <u>Cooler No</u> Temp °C Condition Seal In 1 2.4 Good	tact Seal No	Seal Date S	Signed By								

Page 1 of 1

Client:			ustody Record	Turn-Around		6 0				I	HA	LL	E	N١		RO	N	<b>1</b> E	NT	AL
				Project Nam		h <u>5 Day</u>											BO			
Mailing	Addres		ael Gant													ntal.				
viaining	Address	<sup>s.</sup> 201	S 4th Artesia, NM 88210		ke SWD Pu	mp		49	901 H	Haw							NM 8	3710	a	
				Project #:							345-3						15-41		<i>.</i>	
	#: 575-8			314036	65.009							-	_			ques				
			cid-energy.com	Project Man	ager:		Ê	ô					SO4						are clined	
	Package:			Travis L. (	Casey		802	MR	PCB's		٨S		4, S			oser				
□ Stan		2 2	Level 4 (Full Validation)				TMB's (8021)	101	РС		8270SIMS		PO4,			It/Al				
Accredi ⊐ NEL	tation:	□ Az Co □ Other	mpliance	Sampler:			TME	/ DF	8082	504.1)	827		$NO_2$ ,			eser				
	(Type)			On Ice: # of Coolers:	Ves	□ No		RO	Pesticides/8082	504	0 or	s			(AO	(Pr				
				Cooler Temp		4 +0.0 = 2.4	MTBE	D(G	ticid	thod	831(	Aeta	NO <sub>3</sub> ,	(A	ni-V	orm				
								3015	Pes	(Method	þ	181	Ъ,	S	(Ser	Colii				
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL NO. 2204668	BTEX /	TPH:8015D(GRO / DRO / MRO)	8081	EDB	PAHs by 8310	RCRA 8 Metals	ц	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)				5
/25/2022	12:30		BH01	Type and #	Туре	-001			œ	ш	<u> </u>	щ	Ċ	8	8	Ĕ	-+	+	—	+
/25/2022	12:35	S	BH01A			-002						_		-			$\rightarrow$	+		
/25/2022	12:40	S	BH02									$\rightarrow$		_			+	+	_	
/25/2022	12:45	S	BH02A			-003					-	+			_	-	+	+	_	
/25/2022	13:45	S	BH03			-004			-+	-		_			_				-	
25/2022	13:50	S	BH03A			-005				$\rightarrow$		_					+		—	-
25/2022	14:10	S	BH04			-007			-	-+	_	-		$\rightarrow$			+	+		+
25/2022	14:15	S	BH04A	9		-008			-	-		-		-	_		+			<u> </u>
25/2022	14:30	S	BH05			<u> </u>					-			+	-			_		–
25/2022	14:35	S	BH05A			-009				+		-		-		+		_	+	-
25/2022	14:40	S	BH06			-011			+	+				-				+	+	+
	14:45	S	BH06A			-012					+			+				+	+	<u> </u>
te: 1 129 hai 129 hai	lime:	Relinquishe	d by:	Received by:	Via:	Date Time	Rem	arks	 S:											
	10:37	Mitz	Fl	ann	·	4/27/22 1037	Dire					erg	у							
1	ime:	Relinquishe	d by:	Received by:	Via:	Date Time	Prop Com				00									
27/25	1900	QM	unt	IZB	Courier	4.28.22 14:45					n an	nd la	h re	nort	to i	oe h	ernar	ıdez	@we	

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

(	Chair	I-of-C	ustody Record	Turn-Around	d Time:		7														
Client	:	Lucio	Energy Group	Standar	d 🗹 Rusi	h			P												
		Mich	ael Gant	Project Nam			1 6	2+2											ATO	OR	Ľ٣
Mailin	g Addres	s: 201	S 4th Artesia, NM 88210	Rattlesnal	ke SWD Pu	mp											.com				
				Project #:			-											8710	)9		
Phone	#:575-8	10-6144		314036	65.009				el. 5	05-3	45-3		and the second second			05-34 ques	45-41 st	107			
email	or Fax#:	mgant@lu	cid-energy.com	Project Mana	ager:		$\sim$	6				ter Mare	2000 I 100 I 10				Service of the servic				
QA/QC	Package	:		Travis L. (	Casey		021	MRG	3's		ß		, SO4			sen					
□ Sta	ndard		Level 4 (Full Validation)				s (8	1/0	PCB's		NIS		PO4,			t/Ab					
	ditation:		ompliance	Sampler:			TMB's (8021)	DR	082	<del>,</del>	8270SIMS		NO <sub>2</sub> ,			Coliform (Present/Absent)					
	LAC D (Type)	□ Othe	r	On Ice:	X Yes	🗆 No	-	RO	ss/8	504.1)	Ъ	s	۳ ۳		(Y)	(Pre					
				# of Coolers: Cooler Temr		4 +0.0 = 2.42	MTBE	D(G	icide	por	3310	letal	Br, NO <sub>3</sub> ,	F	l-VC	orm					
						9 70.0 2 2.92	N N	015	Pest	(Method	by 8	8 0	Ŗ,	V0/	Sen	Colife					
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL NO. 2204068	BTEX /	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082	EDB (	PAHs by 8310	RCRA 8 Metals	CI, F,	8260 (VOA)	8270 (Semi-VOA)	Total C					
4/25/2022			BH07		Туре	-013			8	ш	<u> </u>	2	O	8	8	Ĕ		$\rightarrow$	_	+	
4/25/2022	14:55	S	BH07A			-014						_						+	$\rightarrow$	+	
4/25/2022	15:05	S	BH08			-015						-						-		+	_
4/25/2022	15:10	S	BH08A			-016						-		-				+	+	-	
4/25/2022	15:35	S	BH09			-017				-				_	_			+	+	-	_
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Date:		Relinquishe	ed by:	Received by:	Via:	Date Time	Rem	ark	 s:												
4/27/2072	10:37	Hay	R,	an	um	4/27/22/037	Dire			Luci	d Er	nerg	y								
Date:	Time:	Relinquishe	ed by:	Received by:	Via:	Date Time	Prop	c #	1952	2115		5									
437/37	1900	aci	und '	103	Courill	4.28.22 14:45	Company # 860 Send confirmation and lab report to joe.hernandez@				z@w	/sp.c	com								

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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Received by OCD: 5/26/2022 12:00:55 PM

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

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	111129
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvele:	z Closure report approved. Release Resolved. The report failed to provide a substantial amount of the applicable 19.15.29 NMAC requirements. A follow up email will be submitted to the responsible party which will include the deficiencies, reasoning for the approval, and a pronouncement of OCD stance for any future reportable incidents. This email will then be recorded and inserted within the incident file associated with this release.	7/13/2022

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Action 111129