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LT Environmental, Inc.

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

September 28, 2020

District 2 New Mexico Oil Conservation Division 811 South First Street Artesia, New Mexico 88210

RE: Variance and Closure Request
Saguaro 12" Line
Incident Number NRM1935234977
Eddy County, New Mexico

To Whom it May Concern:

LT Environmental, Inc. (LTE), on behalf of Lucid Energy Group (Lucid), presents the following Variance and Deferral Request detailing site assessment and soil sampling activities at the Saguaro 12" Line (Site) in Unit C, Section 23, Township 20 South, Range 24 East, in Eddy County, New Mexico under surface ownership of the Bureau of Land Management (BLM) (Figure 1). The purpose of the site assessment and soil sampling activities was to confirm the presence or absence of impacts to soil associated with a release of natural gas at the Site, subsequent excavation and *in-situ* treatment of impacted soil.

On May 29, 2020, Lucid was notified of the denial associated with an original Variance and Deferral Request dated April 15, 2020. Lucid previously excavated 117 cubic yards of impacted soil surrounding active subsurface pipelines and requested a deferral to address remaining identified impacts during future construction or removal of the pipelines. The New Mexico Oil Conservation Division (NMOCD) denied the request due to the high potential for karst occurrence and the release occurring off of a developed well pad (although it did occur in a developed pipeline right-of-way [ROW]). The NMOCD requested use of alternative remediation methods to address the remaining hydrocarbon impacts on the floor of the excavation, specifically at soil sample location B-8-C. Additionally, Lucid had requested a variance for one vertical delineation sample that slightly exceeded the applicable Table 1 Closure Criteria. The NMOCD did not approve or deny that variance, but requested additional information regarding the laboratory analytical uncertainty associated with the result.

In response to the NMOCD denial, Lucid and LTE have conducted additional site remediation activities and collected new samples from the excavation floor near former soil sample B-8-C. LTE evaluated uncertainty for the analytical result of delineation soil sample BH09A. Based on field observations, field screening, compiled and final laboratory analytical results from soil sampling activities, Lucid is submitting this Variance and Closure Request.



REVISIONS

The revised report addresses the following updates:

- On July 27, 2020, LTE returned to the Site to apply a bio-remediation agent, Liquid RemediactTM, to the floor of the excavation. The Site was left undisturbed for a 30-day incubation period with regular watering events for increased soil moisture content. On September 2, 2020, Lucid collected and submitted final confirmation floor samples of the treated soil inside the excavation. All samples were compliant with site-specific Closure Criteria;
- LTE contacted Xenco Laboratories in Midland, TX for further clarification of the United States Environmental Protection Agency (EPA) Method 300.0 Anions test for chloride concentration and the associated measurement uncertainty. Xenco defines its Relative Percent Difference (RPD) or measure of uncertainty to be approximately 20 percent (%) for the results pertaining to the analytical report for soil sample BH09A. Factoring the RPD into the results for chloride analysis of soil sample BH09A, results for chloride are in range of 488 mg/kg to 732 mg/kg.
- Support that identified chloride concentrations associated with soil sample BH09A are
 equally protective of public health and environment based on the depth of the identified
 concentration and lack of open pathways to nearby receptors.
- The revised Variance and Closure Request only includes field summaries relevant to fulfilling the conditions issued by the NMOCD on May 29, 2020.

RELEASE BACKGROUND

On October 23, 2019, it was discovered that a pinhole leak developed on a subsurface flow line due to internal corrosion. Approximately 8 Million cubic feet (Mmcf) of natural gas were released to the surrounding area. The release was initially identified by aerial imagery at a later date. Upon further investigation, it was determined that an immediate notice detailing the date and hour of occurrence was not documented. Lucid attentively reported the release to Jim Amos with the BLM and to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141) on October 24, 2019, which was received by the NMOCD on October 29, 2019 and was assigned Incident Number NRM1935234977 on December 18, 2019. The Form C-141 is provided as Attachment 1.

SITE CHARACTERIZATION

LTE characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code



(NMAC). Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 323341104330401, located approximately 3,052 feet east of the Site. The groundwater well has a reported depth to groundwater of approximately 236 feet bgs and a total depth of approximately 272 feet bgs. The closest continuously-flowing water or significant watercourse to the Site is an intermittent stream, located approximately 703 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, or church. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is located greater than 300 feet from a wetland. The Site is located in a high-potential karst area. Potential receptors identified during site characterization are displayed in Figure 1.

CLOSURE CRITERIA

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

Benzene: 10 milligrams per kilogram (mg/kg)

Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg

Total petroleum hydrocarbons (TPH): 100 mg/kg

Chloride: 600 mg/kg

BIOREMEDATION AND SOIL SAMPLING ACTIVITIES

On July, 27 2020, LTE utilized a bioremediation agent Liquid RemediactTM, an active mixture of hydrocarbon-oxidizing, naturally occurring, single celled micro-organisms and cleaning agent, and water to assist with the bioremediation of residual hydrocarbons associated with the floor of the excavation. Based on analytical data for previous excavation soil sample B-8-C and BH01 delineation soil sample, the vertical deferral soil volume associated with the excavation was estimated to be 43 cubic yards. In a large pre-cleaned liquid storage tank, LTE combined 5 gallons of Liquid RemediactTM with 50 gallons of freshwater in order to create a 1-part Liquid RemediactTM to 10-parts water application mixture to treat approximately 50 cubic yards of hydrocarbon impacted soil. Using a battery powered electric pump and sprayer unit, LTE then applied thoroughly an even coat of the application mixture along the entire excavation floor, saturating the de minimis impacted soil. Once completed, the mixture was left for a 30-day period with regular additional watering events to regulate and maintain soil moisture content to enhance and accelerate the microbial bioremediation.

On September 2, 2020, a Lucid representative collected 5-point composite soil samples on a 200 square foot frequency from the floor of the excavation. The 5-point composite soil samples were



collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The excavation encompassed an area approximately 600 square feet in size. A total of 3 composite floor soil samples (FS01 through FS03) were collected within the excavation extent at a depth of approximately 6 feet bgs. Soil samples were collected from 6 inches below the floor of the excavation. Field screening was conducted at each floor sample for volatile aromatic hydrocarbons using a calibrated photoionization detector. The soil samples were placed directly into a pre-cleaned glass jar, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were shipped at or below 4 degrees Celsius, under strict chain-of-custody procedures to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico for analysis of BTEX following United States EPA Method 8260B; TPH following EPA Method 8015M/D; and chloride following EPA Method 300.0. The soil sample locations are shown in relation to former excavation floor sample B-8-C on Figure 2.

ANALYTICAL BIOREMEDIATION SOIL RESULTS

Laboratory analytical results for soil samples FS01 through FS03 indicated BTEX, Total TPH, and chloride concentrations were below the applicable Closure Criteria. BTEX concentrations were non-detectable on all three soil samples; Total TPH values ranged from non-detectable limits to 80 mg/kg; and chloride ranged from non-detectable limits to 280 mg/kg. Based on the analytical data, bioremediation to address residual hydrocarbon impacts was successful. Watering events likely contributed to natural attenuation of residual chloride concentrations. Soil analytical results are presented in Table 1.

VARIANCE REQUEST

Lucid renews its request for a variance to allow delineation sample point BH09A at 6 feet bgs with a chloride concentration of 610 mg/kg to represent full vertical delineation. Delineation soil samples were originally presented in the April 15, 2020 report and are depicted here on Figure 3. In addition to the reasons originally stated, LTE has provided information on the laboratory uncertainty, and argues the variance request is equally protective of public health and environment:

- The acceptable RPD, or uncertainty, for chloride by Method E300 for soil sample BH09A is 20%. The exceeding 10 mg/kg from the reported 610 mg/kg is within range of this uncertainty.
- The depth of the identified concentration associated with soil sample BH09A prohibits a
 complete pathway to any surface receptors, including surface water, wildlife, humans,
 and vegetation. Chloride is not toxic to humans or wildlife, and is generally regulated for
 protection of vegetation and groundwater quality.



- Soil sample BH09A was collected from 6 feet bgs, which is below the root zone of nearby vegetation and below the reclamation standard requirement of 4 feet bgs. Groundwater is estimated to be greater than 100 feet bgs and the exceeding chloride concentrations are unlikely to migrate vertically to such a depth as to degrade groundwater.
- The high karst designation stipulates the application of the most stringent Table 1 Closure Criteria at this Site. However, the exceeding chloride concentrations exist in the subsurface where sand to clayey sand was observed, which does not and is unlikely to ever undergo dissolution. The absence of karst features and a soluble host rock suggests the shallow subsurface is not affected by karst.

CLOSURE REQUEST

In response to the subject release, approximately 117 cubic yards of impacted soil up to 5.5 feet bgs were able to be safely excavated. Based on NMOCD's request that alternative methods be used to lower the TPH concentration at excavation sample point B-8-C, *in-situ* remediation was carried out with a hydrocarbon amendment and water applications. The newly resulted excavation floor samples indicated BTEX, Total TPH, and chloride concentrations are below Table 1 Closure Criteria. Based on the data indicating impacts are remediated and the argued variance for full delineation, Lucid requests No Further Action associated with Incident Number NRM1935234977.

If you have any questions or comments, please do not hesitate to contact Ms. Ashley Ager at (970) 385-1096.

Sincerely,

LT ENVIRONMENTAL, INC.

Joseph S. Hernandez

Project Geologist

Ashley L. Ager, P.G Senior Geologist

ashley L. ager

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cc: Michael Gant, Lucid

Jim Amos, BLM

Robert Hamlet, NMOCD Victoria Venegas, NMOCD

Appendices:

Figure 1 Site Receptor Map

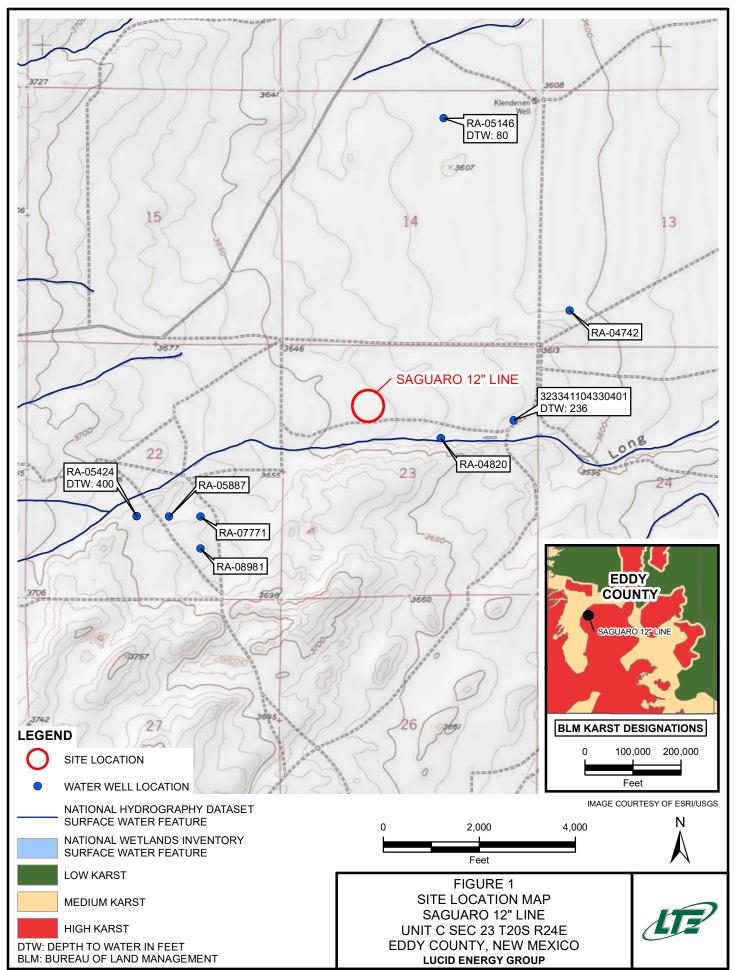
Figure 2 Excavation Soil Sample Locations
Figure 3 Delineation Soil Sample Locations

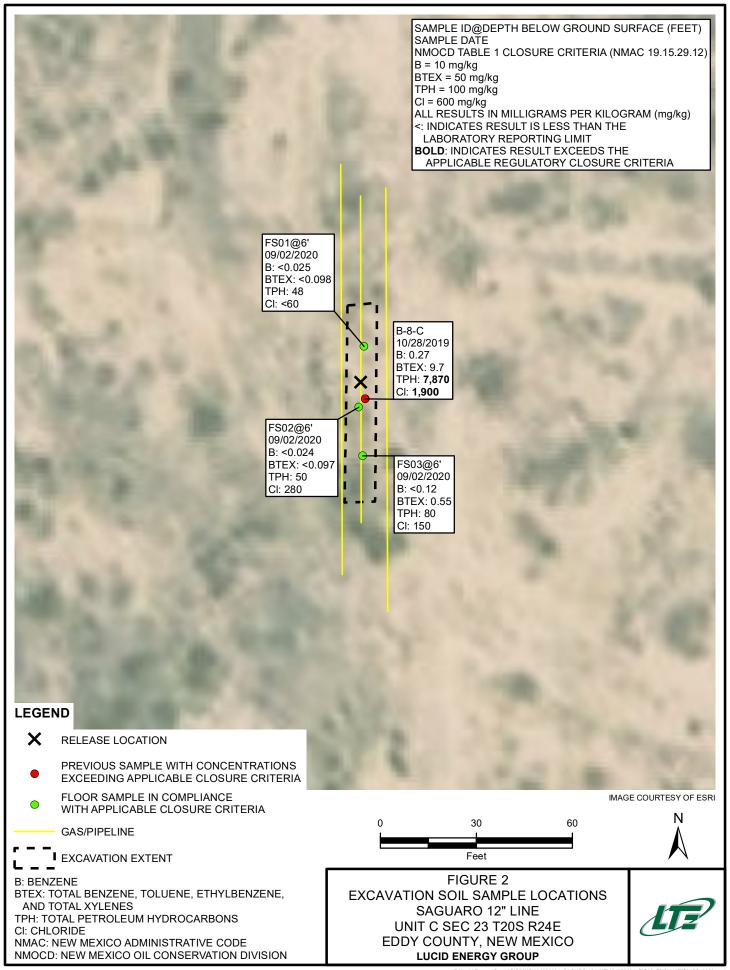
Table 1 Soil Analytical Results

Attachment 1 Form C-141

Attachment 2 Photographic Log

Attachment 3 Lithologic/Soil Sampling Logs Attachment 4 Laboratory Analytical Reports





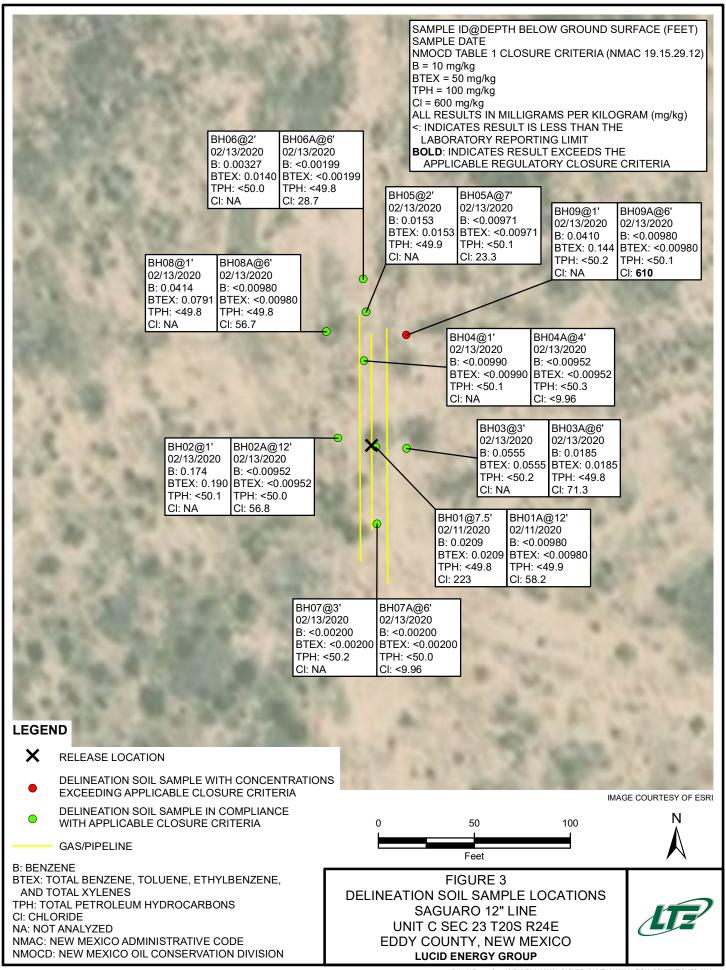


TABLE 1 SOIL ANALYTICAL RESULTS

SAGUARO 12" LINE EDDY COUNTY, NEW MEXICO LUCID ENERGY GROUP

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD	Table 1 Closur	e Criteria	10	NE	NE	NE	50	NE	NE	NE	100	600
SW-4-N-C	-	10/28/2019	0.031	0.18	0.099	0.37	0.68	8.5	92	<48.0	101	NA
SW-5-E-C	-	10/28/2019	<0.024	0.059	<0.047	<0.094	<0.024	<4.7	<9.8	<49.0	<4.7	NA
SW-6-S-C	-	10/28/2019	<0.025	<0.050	<0.050	<0.099	<0.025	<5.0	<9.8	<49.0	<5.0	NA
SW-7-W-C	-	10/28/2019	0.19	3.4	1.8	6.2	11.6	94	38	<46.0	132	NA
B-8-C	-	10/28/2019	0.27	3.9	1.5	4.0	9.7	65	5,000	2,800	7,870	1,900
SP-3-C	-	10/28/2019	0.21	4.3	1.7	6.1	12.3	100	250	<45.0	350	NA
FS01	6	09/02/2020	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.6	<48	<48	<60
FS02	6	09/02/2020	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<10	<50	<50	280
FS03	6	09/02/2020	<0.12	<0.24	<0.24	0.55	0.55	<24	80	<49	80	150
BH01	7.5	02/11/2020	0.0209	<0.00990	<0.00990	<0.00990	0.0209	<49.8	<49.8	<49.8	<49.8	223
BH01A	12	02/11/2020	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<49.9	<49.9	<49.9	<49.9	58.2
BH02	1	02/13/2020	0.174	0.0156	<0.00962	<0.00962	0.190	<50.1	<50.1	<50.1	<50.1	NA
BH02A	12	02/13/2020	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<50.0	<50.0	<50.0	<50.0	56.8
BH03	3	02/13/2020	0.0555	<0.00952	<0.00952	<0.00952	0.0555	<50.2	<50.2	<50.2	<50.2	NA
вноза	6	02/13/2020	0.0185	<0.0100	<0.0100	<0.0100	0.0185	<49.8	<49.8	<49.8	<49.8	71.3
BH04	1	02/13/2020	<0.00990	<0.00990	<0.00990	<0.00990	<0.00990	<50.1	<50.1	<50.1	<50.1	NA
BH04A	4	02/13/2020	<0.00952	<0.00952	<0.00952	<0.00952	<0.00952	<50.3	<50.3	<50.3	<50.3	<9.96
BH05	2	02/13/2020	0.0153	<0.00935	<0.00935	<0.00935	0.0153	<49.9	<49.9	<49.9	<49.9	NA
BH05A	7	02/13/2020	<0.00971	<0.00971	<0.00971	<0.00971	<0.00971	<50.1	<50.1	<50.1	<50.1	23.3
BH06	2	02/13/2020	0.00327	0.00546	0.00218	0.00311	0.0140	<50.0	<50.0	<50.0	<50.0	NA
BH06A	6	02/13/2020	< 0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	28.7



TABLE 1 SOIL ANALYTICAL RESULTS

SAGUARO 12" LINE EDDY COUNTY, NEW MEXICO LUCID ENERGY GROUP

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD	Table 1 Closur	e Criteria	10	NE	NE	NE	50	NE	NE	NE	100	600
BH07	3	02/13/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	NA
BH07A	6	02/13/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<9.96
BH08	1	02/13/2020	0.0414	0.0241	<0.0100	0.0136	0.0791	<49.8	<49.8	<49.8	<49.8	NA
BH08A	6	02/13/2020	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<49.8	<49.8	<49.8	<49.8	56.7
BH09	1	02/13/2020	0.0410	0.0142	<0.00980	0.0891	0.144	<50.2	<50.2	<50.2	<50.2	NA
BH09A	6	02/13/2020	<0.00980	<0.00980	<0.00980	<0.00980	<0.00980	<50.1	<50.1	<50.1	<50.1	610

Notes:

bgs - below ground surface

BTEX - benzene, toluene, ethylbenzene, and total xylenes

DRO - diesel range organics

GRO - gasoline range organics

MRO - motor oil range organics

NMAC - New Mexico Administrative Code

NMOCD - New Mexico Oil Conservation Division

NE - not established

Bold - indicates result exceeds the applicable regulatory standard

< - indicates result is below laboratory reporting limits

Table 1 - closure criteria for soils impacted by a release per NMAC 19.15.29 August 2018 $\,$

NA - not analyzed

st 2018



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

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Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Lucid Artesia Company				OGRID 1	OGRID 147831			
Contact Nam	^{le} Michael	Gant		Contact T	Telephone 314 330 7876			
Contact ema	^{il} mgant@)lucid-energy.	com	Incident #	lent # (assigned by OCD)			
Contact mail	ing address	210 S. 4th St.	, Artesia, NN	Л 88210				
				n of Release S	ource			
Latitude 32	562800°			Longitude	-104.56185	53°		
			(NAD 83 in	decimal degrees to 5 deci				
Site Name Sa	aguaro 12'	' Line		Site Type	Natural Gas	gathering		
Date Release	Discovered	10/23/2019		API# (if ap)		<u> </u>		
			D					
Unit Letter	Section	Township	Range		County			
С	23	20S	24E	Ed	ay			
Surface Owner	r: State	Federal Tı	ribal 🗌 Private	(Name: Bureau o	f Land Mana	gement)		
			Nature al	nd Volume of	Release			
	Materia			ch calculations or specific		ne volumes provided below)		
Crude Oil		Volume Release	d (bbls)		Volume Rec	overed (bbls)		
Produced	Water	Volume Release	d (bbls)		Volume Recovered (bbls)			
		Is the concentrate produced water	>10,000 mg/l?	l chloride in the	☐ Yes ☐ No			
Condensa	ite	Volume Release	d (bbls)		Volume Recovered (bbls)			
✓ Natural G	as	Volume Release	d (Mcf)	8 Mmcf	Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units			ide units)	Volume/Weight Recovered (provide units)				
Cause of Rel-	^{ease} The re the pi	 elease was ca peline.	used by inte	ernal corrosion o	 of the pipelin	ne which led to a pinhole leak in		

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Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responding to total volume of released gas expenses.			
☑ Yes ☐ No				
No, immediate resp		om? When and by what means (phone, email, etc)? The leak was identified at a later date ty.		
	Initial Ro	esponse		
The responsible	party must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury		
✓ The source of the rele	ease has been stopped.			
☑ The impacted area ha	as been secured to protect human health and	the environment.		
Released materials ha	ave been contained via the use of berms or co	likes, absorbent pads, or other containment devices.		
☑ All free liquids and re	ecoverable materials have been removed and	d managed appropriately.		
If all the actions described	d above have <u>not</u> been undertaken, explain	why:		
D 10.15.20.0 D (1) 334				
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred clease attach all information needed for closure evaluation.		
regulations all operators are public health or the environi failed to adequately investig	required to report and/or file certain release noti ment. The acceptance of a C-141 report by the Cate and remediate contamination that pose a three	best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger oCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws		
Printed Name: Michae	l Gant	Title: Environmental Coordinator		
Signature: MGant		Date: 10/24/2019		
email: mgant@lucid-energy.com Telephone: 314 330 7876				
		1		
OCD Only				
Received by: Ramona	Marcus	Date: 12/18/2019		

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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.					
What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)				
Did this release impact groundwater or surface water?	☐ Yes ☑ No				
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No				
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No				
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No				
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No				
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No				
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No				
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No				
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No				
Are the lateral extents of the release overlying an unstable area such as karst geology?	✓ Yes ☐ No				
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No				
Did the release impact areas not on an exploration, development, production, or storage site?	✓ Yes ☐ No				
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.					
Characterization Report Checklist: Each of the following items must be included in the report.					
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.					

Conta	mination associated with the release have been determined. Refer to 17.13.27.11 (which for specifies.
Cha	racterization Report Checklist: Each of the following items must be included in the report.
	Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data
	Depth to water determination
_	Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
	Boring or excavation logs Photographs including date and GIS information
	Topographic/Aerial maps Laboratory data including chain of custody

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

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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.					
Printed Name: Michael Gant	Title: Environmental Coordinator				
Signature:	Date:				
email: mgant@lucid-energy.com	Telephone: 314-330-7876				
OCD Only					
Received by:	Date:				

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Closure

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

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

☑ A scaled site and sampling diagram as described in 19.15.29.1	✓ 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	C District office must be notified 2 days prior to final sampling)							
☑ Description of remediation activities								
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in							
Printed Name: Michael Gant	Title: Environmental Coordinator							
Printed Name: Michael Gant Signature: MGant	Date:							
email: mgant@lucid-energy.com	Telephone: 314-330-7876							
OCD Only								
Received by: Cristina Eads	Date:01/15/2021							
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.							
Closure Approved by:	Date: 01/15/2021							
Printed Name: Cristina Eads	Title: Environmental Specialist							



Received by OCD: 10/5/2020 3:35:39 PM

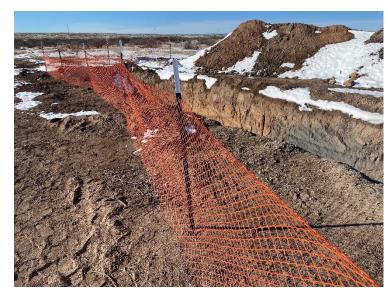
PHOTOGRAPHIC LOG



Photograph 1: View of the exposed subsurface flowline.



Photograph 3: View of the Site facing north.



Photograph 2: View of the Site facing southwest.



Photograph 4: View of the Site facing west.

Saguaro 12" Line 32.562800,-104.561853

Photographs Taken: February 6, 2020 through August 3, 2020

Page 1 of 3



Received by OCD: 10/5/2020 3:35:39 PM

PHOTOGRAPHIC LOG



Photograph 5: View of the repaired subsurface flowline.



Photograph 7: North view of the Site during delineation events.



Photograph 6: Northeast view of the Site during delineation events.



Photograph 8: View of the area associated with BH09.

Saguaro 12" Line 32.562800,-104.561853

Photographs Taken: February 6, 2020 through August 3, 2020

Page 2 of 3



Received by OCD: 10/5/2020 3:35:39 PM

PHOTOGRAPHIC LOG



Photograph 9: View of the excavation floor during the Liquid Remediact $^{\text{TM}}$ application.



Photograph 11: View of the excavation floor prior to the watering treatment.

Saguaro 12" Line 32.562800,-104.561853

Photographs Taken: February 6, 2020 through August 3, 2020



Photograph 10: View of the excavation floor following the Liquid Remediact $^{\text{TM}}$ application.



Photograph 12: View of the excavation floor following the watering treatment.



Page 3 of 3



Contents: Comments: Comments:	508 Wes Carlsbad, N Compliance · E	ironmental, Inc. st Stevens Street New Mexico 88220 Engineering Remediat L SAMPLING LOC Field Screening: Depth Sample (ft. bgs.) Depth	Identifier: BHO Project Name: Saguro 12' line Logged By: Robert N. Hole Diameter: 3" Lithology/Rec	Date: 02/11/20 RP Number: Method: Hand Augur Total Depth:	
D 28 8.3 D 6.6 D 6.6 D 8.3 D 3.2	8 y 6 y 7 9 7 9 7 9 7 9 7 9	7		Gre g	grain, odor present y packed

4	proud m		Con	npliance · E	st Stevens New Mexic Engineering	· Remedi	iation		Site Name: RP or Incid LTE Job Nu	ent Numbe umber:		\2"	line	
Lat/Lo	na:	LITH	OLOG	IC / SOI		Logged By: Robert M. Method: Hole Diameter: 31 Total Depth:								
					Chloride, PID					5			*	
Comm	ents:	1												
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)					Lithology	/Remark	s	
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D		28.7	N		5'	5	6							
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	LT	7		LT Envi 508 Wes Carlsbad, N	ronmenta t Stevens	al, Inc.			BH or PH Name:	Date: 02/13/20				
			8	Carlsbad, N	lew Mexic	co 88220			Site Name:					
	proud m	ember	Co	mpliance · E	ngineering	· Remedia	ation		RP or Incident Number:					
-		TTTTT	01.04	CIC (SOII	CAMD	LINCLO)C		LTE Job Number:	Method:				
Lat/Lo	na.	LITH	OLOG	GIC / SOII	Field Scree		JG		Logged By: Hole Diameter:	Total Depth:				
Laulo	ng.				Chloride, l				Tiole Diameter.	Tour Zopur				
Comm	ents:								5					
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lithology	/Remarks				
		11.0 38.5 44.0 32.1 20.1	И	os .	1' - 2' - 3' - 5' - 5' - 5' - 5' - 5' - 5' - 5	1 0 1 2 2 3 3 4 4 5 5 6 7 7 8 8 9 10 10 11 11		5 ho 19	P-SC Brown 1-plastic, tightly	Small grain odor Pricked, round grain				
				-	-	- - - 12								

Lat/Lo	A proud month wsp	ember	Coi	LT Envii 508 Wes Carlsbad, N mpliance · El	ronmenta t Stevens lew Mexic ngineering	Street 0 88220 Remedia LING LC	ş	BH or PH Name: BH04 Site Name: RP or Incident Number: LTE Job Number: Logged By: Hole Diameter:	Date: 02/13/20 Method: Total Depth:	
Comm	ents:									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Litholog	y/Remarks
D		238	Y	in the second	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0	5	5P.	-SC Small rou non-plastic, tightl	and grain, odor present y Packed, Dark Grey
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σ		118.9	Y		्र ५′ -	4	S			grey
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	A proud n	nember		LT Envi 508 Wes Carlsbad, N mpliance · E		Street co 88220	BH or PH Name: BH 05 Site Name: RP or Incident Number: LTE Job Number:	
		LITH	OLOG	GIC /SOI			OG	Logged By: Method: Hole Diameter: Total Depth:
Lat/Lo	ong:				Field Scree Chloride, I			Hole Diameter.
Comm	nents:				,			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
D		97.0	7		1' -	0	S	SP-SC Brown, Small round grain, non-Plastic, tightly pack, odor present
D		227.	h	×	2'-	2	S	
D		1000	7	•	3'-	3	S	
D	4	93,6	N		41-	4	S	
P		78.2	N		5'-	5	5	
D		84.5	N		6' -	6	5	
D		60:2	Ŋ		7'-	7	6	1:ght Brown Small cobble stone
						9 10 11		Rekisal

	proud in	nember		LT Env 508 We Carlsbad, i		Street co 88220		BH or PH Name: BH 0 6 Site Name: RP or Incident Nu					
		LITH		GIC / SOI				LTE Job Number:	Method:				
Lat/Lo	ng:	2,,,,		G10 / G01	Field Scree	ening:		Hole Diameter:	Total Depth:				
Comm	ents:				Chloride, I	PID							
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)			Lithology/Remarks				
D		61.6	h		l'-	0 - 1 - 1 -	5	SP-SC E small r hard Pa	brown edor Present ound grain, non-plastic coked				
		69.2	N		2'-	2	5						
		29.0	7		3'-	3	5		faint odor				
		16.4	N		y'-	. 4	5						
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11 /	17	7		508 We	st Stevens	ai, inc. s Street			BH07		02/13/20			
11				508 We. Carlsbad,	New Mexi	co 88220)		Site Name:					
	A prou	d membe	r o	ompliance · L	Engineering	r · Remedi	iation		RP or Incident Number:					
	of WSF								LTE Job Number:		V			
		LIT	HOLO	GIC / SOI			OG		Logged By:		Method:			
Lat/L	long:				Field Scre				Hole Diameter:		Total Depth:			
Com	ments:				Chloride, l	PID								
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(a) +	. 0		50	#	C1-		USCS/Rock Symbol							
stur	orid	Vapor		ple	Sample Depth	Depin	nbo %	ľ	Litho	ology/Re	emarks			
Moisture	Chloride	Z S	Staining	Sample #	(ft bgs)	(ft bgs)	SCS							
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1		LITTI	01.00	GIC / SOI	CAMDI	INCL)C		LTE Job Number: Logged By:		Method:	
Lat/L	ong:	LIII	OLOG	31C / SOI.	Field Scree		<i>J</i> G		Hole Diameter:		Total Depth:	
					Chloride, F	PID						
Comr	nents:											
Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol			Lithology/	Remarks	
D		115.7	N		1 '-	0 - - - 1	5	ş	SP-SC on-plastic	tightly	Packed Brown or Present	
P		97.5	N		2'-	- - 2	5		·			
D	*	868	7		3'-	3	5					
D		68.7	N		- اب	4	5					
D		30.2	N		, - 5 -	- - 5 -	5	,				
D		32.\	N		6	- 6 - 6	5		4			
						7 8 8 9 10 11 11 12 12						

-		7		LT Envi	ronmenta	al. Inc			BH or PH Name:		Date:	Lag City		
1	12		(LT Envi 508 Wes Carlsbad, N	t Stevens	Street)		BHO9		Date: 02/13/20			
A	proud m	ember							Site Name:					
of	WSP		Cor	npliance · E	ngineering	· Remedi	ation		RP or Incident Number: LTE Job Number:					
		LITH	OLOG	IC / SOII	LSAMP	LING LO	OG		Logged By:		V.d. 1			
Lat/Lon	ıg:				Field Scree	ening:			Hole Diameter:		Method: Total Depth:			
Comme	ents:				Chloride, l	PID								
							1							
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	ŀ	L	ithology/R	Remarks	,		
D		116.4	N	,	: '-	1	5		SP-SC, 1	ightly l	Packed, non-plastic			
D		104.9	N		2'-	2	S		J	.,	(0.20)			
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D		(A.3	Ŋ		4' -	4	5							
D		61.3	И		5'-	5	5					x		
D		72.5	N		6'	6	5		\					
						7								





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

November 04, 2019

Michael Gant Lucid Energy Delaware 201 South 4th St. Artesia, NM 88210 TEL: (575) 513-8988

FAX

RE: Saguro 2 12 in OrderNo.: 1910E99

Dear Michael Gant:

Hall Environmental Analysis Laboratory received 6 sample(s) on 10/30/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Analytical ReportLab Order **1910E99**

Date Reported: 11/4/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Client Sample ID: SP-3-C

 Project:
 Saguro 2 12 in
 Collection Date: 10/28/2019 1:00:00 PM

 Lab ID:
 1910E99-001
 Matrix: SOIL
 Received Date: 10/30/2019 9:00:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst: BRM
Diesel Range Organics (DRO)	250	90		mg/Kg	10	11/1/2019 3:47:09 AM
Motor Oil Range Organics (MRO)	ND	450	D	mg/Kg	10	11/1/2019 3:47:09 AM
Surr: DNOP	0	70-130	S	%Rec	10	11/1/2019 3:47:09 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	100	9.3		mg/Kg	2	10/31/2019 11:30:40 AM
Surr: BFB	312	77.4-118	S	%Rec	2	10/31/2019 11:30:40 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	0.21	0.047		mg/Kg	2	10/31/2019 11:30:40 AM
Toluene	4.3	0.093		mg/Kg	2	10/31/2019 11:30:40 AM
Ethylbenzene	1.7	0.093		mg/Kg	2	10/31/2019 11:30:40 AM
Xylenes, Total	6.1	0.19		mg/Kg	2	10/31/2019 11:30:40 AM
Surr: 4-Bromofluorobenzene	148	80-120	S	%Rec	2	10/31/2019 11:30:40 AM

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

Qualifiers:

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

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

Page 1 of 10

Date Reported: 11/4/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Client Sample ID: SW-4-N-C

 Project:
 Saguro 2 12 in
 Collection Date: 10/28/2019 1:05:00 PM

 Lab ID:
 1910E99-002
 Matrix: SOIL
 Received Date: 10/30/2019 9:00:00 AM

Analyses	Result	Result RL Qual U		Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst: BRM		
Diesel Range Organics (DRO)	92	9.6		mg/Kg	1	11/1/2019 12:57:32 PM		
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/1/2019 12:57:32 PM		
Surr: DNOP	121	70-130		%Rec	1	11/1/2019 12:57:32 PM		
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB		
Gasoline Range Organics (GRO)	8.5	5.0		mg/Kg	1	10/31/2019 1:04:47 PM		
Surr: BFB	130	77.4-118	S	%Rec	1	10/31/2019 1:04:47 PM		
EPA METHOD 8021B: VOLATILES						Analyst: NSB		
Benzene	0.031	0.025		mg/Kg	1	10/31/2019 1:04:47 PM		
Toluene	0.18	0.050		mg/Kg	1	10/31/2019 1:04:47 PM		
Ethylbenzene	0.099	0.050		mg/Kg	1	10/31/2019 1:04:47 PM		
Xylenes, Total	0.37	0.099		mg/Kg	1	10/31/2019 1:04:47 PM		
Surr: 4-Bromofluorobenzene	115	80-120		%Rec	1	10/31/2019 1:04:47 PM		

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

Qualifiers:

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

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

Page 2 of 10

Date Reported: 11/4/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Client Sample ID: SW-5-E-C

 Project:
 Saguro 2 12 in
 Collection Date: 10/28/2019 1:10:00 PM

 Lab ID:
 1910E99-003
 Matrix: SOIL
 Received Date: 10/30/2019 9:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	11/1/2019 1:06:24 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/1/2019 1:06:24 PM
Surr: DNOP	112	70-130	%Rec	1	11/1/2019 1:06:24 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/31/2019 2:38:53 PM
Surr: BFB	106	77.4-118	%Rec	1	10/31/2019 2:38:53 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/31/2019 2:38:53 PM
Toluene	0.059	0.047	mg/Kg	1	10/31/2019 2:38:53 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/31/2019 2:38:53 PM
Xylenes, Total	ND	0.094	mg/Kg	1	10/31/2019 2:38:53 PM
Surr: 4-Bromofluorobenzene	111	80-120	%Rec	1	10/31/2019 2:38:53 PM

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

Qualifiers:

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

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

Page 3 of 10

Date Reported: 11/4/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Client Sample ID: SW-6-S-C

 Project:
 Saguro 2 12 in
 Collection Date: 10/28/2019 1:15:00 PM

 Lab ID:
 1910E99-004
 Matrix: SOIL
 Received Date: 10/30/2019 9:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	11/1/2019 1:15:22 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/1/2019 1:15:22 PM
Surr: DNOP	107	70-130	%Rec	1	11/1/2019 1:15:22 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/31/2019 3:02:13 PM
Surr: BFB	100	77.4-118	%Rec	1	10/31/2019 3:02:13 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/31/2019 3:02:13 PM
Toluene	ND	0.050	mg/Kg	1	10/31/2019 3:02:13 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/31/2019 3:02:13 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/31/2019 3:02:13 PM
Surr: 4-Bromofluorobenzene	108	80-120	%Rec	1	10/31/2019 3:02:13 PM

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

Qualifiers:

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

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

Page 4 of 10

Date Reported: 11/4/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Client Sample ID: SW-7-W-C

 Project:
 Saguro 2 12 in
 Collection Date: 10/28/2019 1:20:00 PM

 Lab ID:
 1910E99-005
 Matrix: SOIL
 Received Date: 10/30/2019 9:00:00 AM

Analyses	Result	Result RL Qual U			DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst: BRM
Diesel Range Organics (DRO)	38	9.1		mg/Kg	1	11/1/2019 1:24:24 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/1/2019 1:24:24 PM
Surr: DNOP	114	70-130		%Rec	1	11/1/2019 1:24:24 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	94	24		mg/Kg	5	10/31/2019 10:43:36 AM
Surr: BFB	192	77.4-118	S	%Rec	5	10/31/2019 10:43:36 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	0.19	0.12		mg/Kg	5	10/31/2019 10:43:36 AM
Toluene	3.4	0.24		mg/Kg	5	10/31/2019 10:43:36 AM
Ethylbenzene	1.8	0.24		mg/Kg	5	10/31/2019 10:43:36 AM
Xylenes, Total	6.2	0.48		mg/Kg	5	10/31/2019 10:43:36 AM
Surr: 4-Bromofluorobenzene	130	80-120	S	%Rec	5	10/31/2019 10:43:36 AM

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

Qualifiers:

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

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

Page 5 of 10

Date Reported: 11/4/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Client Sample ID: B-8-C

 Project:
 Saguro 2 12 in
 Collection Date: 10/28/2019 1:25:00 PM

 Lab ID:
 1910E99-006
 Matrix: SOIL
 Received Date: 10/30/2019 9:00:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst: BRM
Diesel Range Organics (DRO)	5000	470		mg/Kg	50	11/1/2019 4:11:05 AM
Motor Oil Range Organics (MRO)	2800	2400		mg/Kg	50	11/1/2019 4:11:05 AM
Surr: DNOP	0	70-130	S	%Rec	50	11/1/2019 4:11:05 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	65	24		mg/Kg	5	10/31/2019 11:07:04 AM
Surr: BFB	161	77.4-118	S	%Rec	5	10/31/2019 11:07:04 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	0.27	0.12		mg/Kg	5	10/31/2019 11:07:04 AM
Toluene	3.9	0.24		mg/Kg	5	10/31/2019 11:07:04 AM
Ethylbenzene	1.5	0.24		mg/Kg	5	10/31/2019 11:07:04 AM
Xylenes, Total	4.0	0.48		mg/Kg	5	10/31/2019 11:07:04 AM
Surr: 4-Bromofluorobenzene	136	80-120	S	%Rec	5	10/31/2019 11:07:04 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	1900	60		mg/Kg	20	10/31/2019 11:43:23 AM

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

Qualifiers:

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

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

Page 6 of 10

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1910E99**

04-Nov-19

Client: Lucid Energy Delaware

Project: Saguro 2 12 in

Sample ID: MB-48509 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 48509 RunNo: 64117

Prep Date: 10/31/2019 Analysis Date: 10/31/2019 SeqNo: 2195081 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-48509 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 48509 RunNo: 64117

Prep Date: 10/31/2019 Analysis Date: 10/31/2019 SeqNo: 2195082 Units: mg/Kg

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

Chloride 15 1.5 15.00 0 99.7 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 7 of 10

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1910E99**

04-Nov-19

Client: Lucid Energy Delaware

Project: Saguro 2 12 in

Sample ID: LCS-48508 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 48508 RunNo: 64116 Prep Date: 10/31/2019 Analysis Date: 10/31/2019 SeqNo: 2194222 Units: mg/Kg PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result LowLimit

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

 Surr: DNOP
 4.0
 5.000
 80.6
 70
 130

Sample ID: MB-48508 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 48508 RunNo: 64116

Prep Date: 10/31/2019 Analysis Date: 10/31/2019 SeqNo: 2194223 Units: mg/Kg

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

Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 8.9 10.00 88.6 70 130

Qualifiers:

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

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

Page 8 of 10

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1910E99**

04-Nov-19

Client: Lucid Energy Delaware

Project: Saguro 2 12 in

Sample ID: MB-48491 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 48491 RunNo: 64127

Prep Date: 10/30/2019 Analysis Date: 10/31/2019 SeqNo: 2194628 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 100 77.4 118

Sample ID: LCS-48491 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 48491 RunNo: 64127

Prep Date: 10/30/2019 Analysis Date: 10/31/2019 SeqNo: 2194629 Units: mg/Kg

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

Surr: BFB 1100 1000 112 77.4 118

Sample ID: 1910E99-001AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: **SP-3-C** Batch ID: **48491** RunNo: **64127**

Prep Date: 10/30/2019 Analysis Date: 10/31/2019 SeqNo: 2194634 Units: mg/Kg

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Gasoline Range Organics (GRO) 120 9.6 23.97 102.1 94.3 69.1 142 Surr: BFB S 6100 77.4 1918 318 118

Sample ID: 1910E99-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: SP-3-C Batch ID: 48491 RunNo: 64127

Prep Date: 10/30/2019 Analysis Date: 10/31/2019 SeqNo: 2194636 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual Gasoline Range Organics (GRO) 130 9.5 102.1 105 69.1 142 1.97 23.79 20 Surr: BFB 6100 1903 320 77.4 118 0 0 S

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 9 of 10

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1910E99**

04-Nov-19

Client: Lucid Energy Delaware

Project: Saguro 2 12 in

Sample ID: MB-48491 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 48491 RunNo: 64127

Prep Date: 10/30/2019 Analysis Date: 10/31/2019 SeqNo: 2194655 Units: mg/Kg

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

 Benzene
 ND
 0.025

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

 Surr: 4-Bromofluorobenzene
 1.1
 1.000
 108
 80
 120

Sample ID: LCS-48491 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: **LCSS** Batch ID: **48491** RunNo: **64127**

Prep Date: 10/30/2019 Analysis Date: 10/31/2019 SeqNo: 2194656 Units: mg/Kg

Prep Date. 10/30/2019	Allalysis L	Jaie. I	J/31/2019		begino. Z	194030	Office. Ing/R	vg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	98.2	80	120			
Toluene	0.98	0.050	1.000	0	98.3	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.4	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.6	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

Sample ID: 1910E99-002AMS SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: SW-4-N-C Batch ID: 48491 RunNo: 64127

Prep Date: 10/30/2019	Analysis [Date: 10	0/31/2019	S	SeqNo: 2	194660	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9950	0.03132	106	76	123			
Toluene	1.3	0.050	0.9950	0.1792	111	80.3	127			
Ethylbenzene	1.2	0.050	0.9950	0.09861	110	80.2	131			
Xylenes, Total	3.6	0.10	2.985	0.3747	109	78	133			
Surr: 4-Bromofluorobenzene	1.1		0.9950		114	80	120			

Sample ID: 1910E99-002AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles

Client ID: **SW-4-N-C** Batch ID: **48491** RunNo: **64127**

Prep Date: 10/30/2019	Analysis D	Analysis Date: 10/31/2019			SeqNo: 2	194661	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	0.9950	0.03132	113	76	123	5.86	20	
Toluene	1.4	0.050	0.9950	0.1792	119	80.3	127	6.27	20	
Ethylbenzene	1.2	0.050	0.9950	0.09861	112	80.2	131	1.49	20	
Xylenes, Total	3.7	0.10	2.985	0.3747	110	78	133	0.954	20	
Surr: 4-Bromofluorobenzene	1.1		0.9950		114	80	120	0	0	

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

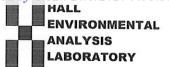
E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 10 of 10



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	LUCID EN	ERGY DELA	W Worl	nber: 19 1	0E99			RcptNo: 1				
Received By:	Juan	Rojas	10/30/2	2019 9:00:0	00 AM		5.					
Completed By:	Leah Bac	a	10/30/2	2019 9:42:1	5 AM		/ /	Bac				
Reviewed By:	D ~~	10/3			= -		Last	Mae	4			
Chain of Cus	tody											
1. Is Chain of C	ustody comp	olete?			Yes	V	No		Not Present			
2. How was the	sample deli	vered?			Cou	ırier						
<u>Log In</u>												
Was an attern	pt made to	cool the samp	oles?		Yes	✓	No		NA 🗆			
4. Were all samp	oles received	d at a tempera	ature of >0° C	to 6.0°C	Yes	V	No		NA 🗆			
5. Sample(s) in p	proper conta	iner(s)?			Yes	v	No					
6. Sufficient sam	ple volume t	for indicated t	est(s)?		Yes	V	No					
7. Are samples (except VOA	and ONG) pr	operly preserv	ed?	Yes	✓	No					
8. Was preservat	tive added to	bottles?			Yes		No	V	NA \square			
9. VOA vials have	e zero head:	space?			Yes		No		No VOA Vials 🗹			
10. Were any sam	nple contain	ers received b	oroken?		Yes		No	V				
									# of preserved bottles checked			
11. Does paperwo			V		Yes	V	No		for pH:			
(Note discrepa							******		(<2 or Adjusted?	>12 unless noted)		
12. Are matrices of					Yes		No		Adjusted?			
13. Is it clear what			17		Yes	V	No		Land and the S	0.0		
14. Were all holdin (If no, notify cu	istomer for a	e to be met? authorization.)			Yes	✓	No	ш	Checked by:	MAD 10/30/19		
Special Handli	ing (if app	olicable)										
15. Was client not	tified of all d	iscrepancies	with this order	?	Yes		No		NA 🗸			
Person I	Notified:			Date				manustra e				
By Who	m:			Via:	eM	ail 🗌	Phone _	Fax	☐ In Person			
Regardi	ng:		***************************************		-							
Client In	structions:							-				
16. Additional ren	narks:											
17. Cooler Inform	nation											
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal D	ate	Signed I	Bv	THE STATE OF THE S			
1	4.3	Good	Yes			TATANÉS N	glou .l					
2	0.7	Good	Yes	The state of the s								

Received by OCD: 10/5/2020 3	:35:39 PM	Page 47 of 101
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	PAHs by 8310 or 8270SIMS PAHs by 8310 or 8270SIMS RCRA 8 Metals CI, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ 8250 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent)	o-contracted data will be clearly notated on the analytical report.
4901 H	8081 Pesticides/8082 PCB's	S: Any suk
49 F	(OZM) ORO (ORO) DRO (MRO)	Remarks:
		nis poss
18 L 12 IN.	Cant (10.5 to.2 time (10.5 to.2 to.2 to.2 to.2 to.2 to.2 to.2 to.2	Date Time $\frac{ \mathcal{O}/\mathcal{U}_{ \mathcal{U} } \mathcal{P}(\mathcal{U})}{ \mathcal{U} \mathcal{C}(\mathcal{U} \mathcal{U})}$ $\mathcal{E} \mathcal{E} \qquad \mathcal{U} \mathcal{C}(\mathcal{U} \mathcal{U} \mathcal{U})$ laboratories. This serves as notice of thi
	Ager:	Via:
Turn-Around Ti ☐ Standard Project Name: \$\int \alpha \a	ana sum mb size:	Received by: Received by: Received by: Ontracted to other acc
Client: Lucial Energy Cooper Mailing Address: 2015, 4th 5th Antesia, NM 88210 Phone #:	mple Name P- 3 - C N- 4 - N - C N - 5 - E - C N - 7 - N - C N - 7 - W - C N - 7 - W - C N - 7 - W - C S - 4 B - 8	5 0



Certificate of Analysis Summary 652519

LT Environmental, Inc., Arvada, CO

Project Name: Saguaro #2

Project Id: 10122001 Contact: Christa Leibli **Date Received in Lab:** Fri 02.14.2020 17:50

Report Date: 06.05.2020 13:22 **Project Manager:** Jessica Kramer

Project Location:

	Lab Id:	652519-0	001	652519-0	002	652519-0	003	652519-0	004	652519-0	005	652519-00	06
Analysis Requested	Field Id:	BH01	l	BH012	4	BH02		BH02A		BH03		BH03A	
Anaiysis Kequesieu	Depth:	7.5- ft		12- ft		1- ft		12- ft		3- ft		6- ft	
	Matrix:	SOIL	,	SOIL		SOIL	,	SOIL		SOIL		SOIL	
	Sampled:	02.11.2020	02.11.2020 11:03		12:20	02.13.2020	08:35	02.13.2020	14:55	02.13.2020	10:35	02.13.2020 1	10:55
BTEX by EPA 8021B	Extracted:	02.17.2020	02.17.2020 11:00		11:00	02.17.2020	11:00	02.17.2020	11:00	02.17.2020	11:00	02.17.2020 1	11:00
	Analyzed:	02.18.2020	02.18.2020 10:14		10:34	02.18.2020	10:55	02.17.2020	18:16	02.17.2020	18:36	02.17.2020 1	18:57
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		0.0209	0.00990	< 0.00980	0.00980	0.174	0.00962	< 0.00952	0.00952	0.0555	0.00952	0.0185	0.0100
Toluene		< 0.00990	0.00990	< 0.00980	0.00980	0.0156	0.00962	< 0.00952	0.00952	< 0.00952	0.00952	< 0.0100	0.0100
Ethylbenzene		< 0.00990	0.00990	< 0.00980	0.00980	< 0.00962	0.00962	< 0.00952	0.00952	< 0.00952	0.00952	< 0.0100	0.0100
m,p-Xylenes		< 0.0198	0.0198	< 0.0196	0.0196	< 0.0192	0.0192	< 0.0190	0.0190	< 0.0190	0.0190	< 0.0200	0.0200
o-Xylene	<0.00990 0.0		0.00990	< 0.00980	0.00980	< 0.00962	0.00962	< 0.00952	0.00952	< 0.00952	0.00952	< 0.0100	0.0100
Xylenes, Total		< 0.00990	0.00990	< 0.00980	0.00980	< 0.00962	0.00962	< 0.00952	0.00952	< 0.00952	0.00952	< 0.0100	0.0100
Total BTEX		0.0209	0.00990	<0.00980 0.00980		0.190	0.00962	< 0.00952	0.00952	0.0555	0.00952	0.0185	0.0100
Chloride by EPA 300	Extracted:	02.17.2020	11:00	02.17.2020 11:00				02.17.2020	11:00			02.17.2020 1	11:00
	Analyzed:	02.17.2020	12:54	02.17.2020	13:00			02.17.2020 13:05				02.17.2020 13:11	
	Units/RL:	mg/kg	RL	mg/kg	RL			mg/kg	RL			mg/kg	RL
Chloride		223	49.6	58.2	9.98			56.8	9.96			71.3	9.98
TPH by SW8015 Mod	Extracted:	02.17.2020	12:15	02.17.2020	12:15	02.17.2020	12:15	02.17.2020	12:15	02.17.2020	12:15	02.17.2020 1	12:15
	Analyzed:	02.17.2020	15:38	02.17.2020	15:17	02.17.2020	15:58	02.17.2020	15:58	02.17.2020	16:19	02.17.2020 1	16:19
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<49.9	49.9	< 50.1	50.1	< 50.0	50.0	< 50.2	50.2	<49.8	49.8
Diesel Range Organics (DRO)		<49.8	49.8	<49.9	49.9	< 50.1	50.1	< 50.0	50.0	< 50.2	50.2	<49.8	49.8
Motor Oil Range Hydrocarbons (MRO)		<49.8	<49.8 49.8		49.9	< 50.1	50.1	< 50.0	50.0	< 50.2	50.2	<49.8	49.8
Total GRO-DRO		<49.8	<49.8 49.8		49.9	< 50.1	50.1	< 50.0	50.0	< 50.2	50.2	<49.8	49.8
Total TPH		<49.8	49.8	<49.9	49.9	< 50.1	50.1	< 50.0	50.0	< 50.2	50.2	<49.8	49.8

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Weamer

Jessica Kramer Project Manager

Received by OCD: 10/5/2020 3:35:39 PM XENCO

Certificate of Analysis Summary 652519

LT Environmental, Inc., Arvada, CO

Project Name: Saguaro #2

Project Id: 10122001 Contact: Christa Leibli **Date Received in Lab:** Fri 02.14.2020 17:50

Report Date: 06.05.2020 13:22 **Project Manager:** Jessica Kramer

Project Location:

	Lab Id:	652519-0	007	652519-0	08	652519-0	009	652519-	010	652519-0)11	652519-0)12
	Field Id:	BH04		BH04A		BH05		BH05A		BH06	,,,,	BH06A	
Analysis Requested	Depth:	1- ft		4- ft	•	2- ft		7- ft		2- ft		6- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
					11.20								
	Sampled:	02.13.2020	11:15	02.13.2020	11:30	02.13.2020	11:40	02.13.2020	12:15	02.13.2020	12:30	02.13.2020	16:40
BTEX by EPA 8021B	Extracted:	02.17.2020	11:00	02.17.2020	11:00	02.17.2020	11:00	02.17.2020	11:00	02.17.2020	11:00	02.17.2020	11:00
	Analyzed:	02.17.2020	19:17	02.17.2020	19:38	02.17.2020	20:59	02.17.2020	21:20	02.18.2020	09:13	02.18.2020	11:15
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		< 0.00990	0.00990		0.00952	0.0153	0.00935	< 0.00971	0.00971	0.00327	0.00200	< 0.00199	0.00199
Toluene		< 0.00990	0.00990		0.00952	< 0.00935	0.00935	< 0.00971	0.00971	0.00546	0.00200	< 0.00199	0.00199
Ethylbenzene		< 0.00990	0.00990	< 0.00952	0.00952	< 0.00935	0.00935	< 0.00971	0.00971	0.00218	0.00200	< 0.00199	0.00199
m,p-Xylenes		< 0.0198	0.0198	< 0.0190	0.0190	< 0.0187	0.0187	< 0.0194	0.0194	<0.00399	0.00399	< 0.00398	0.00398
o-Xylene		< 0.00990	0.00990		0.00952	< 0.00935	0.00935	< 0.00971	0.00971	0.00311	0.00200	< 0.00199	0.00199
Xylenes, Total		<0.00990	0.00990		0.00952	<0.00935	0.00935	< 0.00971	0.00971	0.00311	0.00200	< 0.00199	0.00199
Total BTEX		< 0.00990	0.00990	< 0.00952	0.00952	0.0153	0.00935	< 0.00971	0.00971	0.0140	0.00200	< 0.00199	0.00199
Chloride by EPA 300	Extracted:			02.17.2020 11:00				02.17.2020	11:00			02.17.2020	11:00
	Analyzed:			02.17.2020 13:16				02.17.2020	13:22			02.17.2020	13:39
	Units/RL:			mg/kg	RL			mg/kg	RL			mg/kg	RL
Chloride				<9.96	9.96			23.3	9.98			28.7	9.98
TPH by SW8015 Mod	Extracted:	02.17.2020	12:15	02.17.2020 12:15		02.17.2020 12:15		02.17.2020 12:15		02.17.2020 12:15		02.17.2020 17:00	
	Analyzed:	02.17.2020	16:39	02.17.2020 16:39		02.17.2020 16:59		02.17.2020 16:59		02.17.2020	17:20	02.17.2020 19:22	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		< 50.1	50.1	<50.3	50.3	<49.9	49.9	<50.1	50.1	<50.0	50.0	<49.8	49.8
Diesel Range Organics (DRO)		< 50.1	50.1	<50.3	50.3	<49.9	49.9	<50.1	50.1	<50.0	50.0	<49.8	49.8
Motor Oil Range Hydrocarbons (MRO)		< 50.1	50.1	<50.3	50.3	<49.9	49.9	<50.1	50.1	< 50.0	50.0	<49.8	49.8
Total TPH		< 50.1	50.1	<50.3	50.3	<49.9	49.9	< 50.1	50.1	< 50.0	50.0	<49.8	49.8
TPH by SW8015 Mod	Extracted:	02.17.2020	12:15	02.17.2020	12:15	02.17.2020	12:15	02.17.2020	12:15	02.17.2020	12:15		
	Analyzed:	02.17.2020	16:39	02.17.2020	16:39	02.17.2020	16:59	02.17.2020 16:59		02.17.2020 17:20			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Fotal GRO-DRO		<50.1	50.1	< 50.3	50.3	<49.9	49.9	<50.1	50.1	<50.0	50.0		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Weamer

Jessica Kramer Project Manager



Certificate of Analysis Summary 652519

LT Environmental, Inc., Arvada, CO

Project Name: Saguaro #2

Project Id: 10122001 Contact: Christa Leibli **Date Received in Lab:** Fri 02.14.2020 17:50

Report Date: 06.05.2020 13:22

Project Location:

Project Manager: Jessica Kramer

	Lab Id:	652519-0	13	652519-0	14	652519-0	15	652519-	016	652519-0)17	652519-0	18
Analysis Requested	Field Id:	BH07		BH07	A	BH08		BH08A		BH09		BH09A	
Analysis Requesieu	Depth:	3- ft		6- ft		1- ft		6- ft		1- ft		6- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	02.13.2020	02.13.2020 13:05		13:20	02.13.2020	15:40	02.13.2020 16:25		02.13.2020 16:00		02.13.2020	16:35
BTEX by EPA 8021B	Extracted:	02.17.2020 11:00		02.17.2020 11:00		02.17.2020	11:00	02.17.2020	11:00	02.17.2020 11:00		02.17.2020	11:00
	Analyzed:	02.17.2020 22:21		02.17.2020	22:41	02.18.2020	09:33	02.17.2020	23:22	02.18.2020	09:54	02.18.2020	00:03
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		< 0.00200	0.00200	< 0.00200	0.00200	0.0414	0.0100	< 0.00980	0.00980	0.0410	0.00980	< 0.00980	0.00980
Toluene		< 0.00200	0.00200	< 0.00200	0.00200	0.0241	0.0100	< 0.00980	0.00980	0.0142	0.00980	< 0.00980	0.00980
Ethylbenzene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.0100	0.0100	< 0.00980	0.00980	< 0.00980	0.00980	< 0.00980	0.00980
m,p-Xylenes			0.00400	< 0.00399	0.00399	< 0.0200	0.0200	< 0.0196	0.0196	< 0.0196	0.0196	< 0.0196	0.0196
o-Xylene		< 0.00200	0.00200	< 0.00200	0.00200	0.0136	0.0100	< 0.00980	0.00980	0.0891	0.00980	< 0.00980	0.00980
Xylenes, Total		< 0.00200	0.00200	< 0.00200	0.00200	0.0136	0.0100	< 0.00980	0.00980	0.0891	0.00980	< 0.00980	0.00980
Total BTEX		< 0.00200	0.00200	< 0.00200	0.00200	0.0791	0.0100	< 0.00980	0.00980	0.144	0.00980	< 0.00980	0.00980
Chloride by EPA 300	Extracted:			02.17.2020	11:00			02.17.2020	11:00			02.17.2020	11:00
	Analyzed:			02.17.2020	14:00			02.17.2020	14:06			02.17.2020	14:12
	Units/RL:			mg/kg	RL			mg/kg	RL			mg/kg	RL
Chloride				< 9.96	9.96			56.7	9.98			610	9.98
TPH by SW8015 Mod	Extracted:	02.17.2020	17:00	02.17.2020	17:00	02.17.2020	17:00	02.17.2020	17:00	02.17.2020	17:00	02.17.2020	17:00
	Analyzed:	02.17.2020	19:22	02.17.2020	19:42	02.17.2020	19:42	02.17.2020	20:02	02.17.2020	20:22	02.17.2020	20:22
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		< 50.2	50.2	< 50.0	50.0	<49.8	49.8	<49.8	49.8	< 50.2	50.2	< 50.1	50.1
Diesel Range Organics (DRO)		< 50.2	50.2	< 50.0	50.0	<49.8	49.8	<49.8	49.8	< 50.2	50.2	< 50.1	50.1
Motor Oil Range Hydrocarbons (MRO)		< 50.2	50.2	< 50.0	50.0	<49.8	49.8	<49.8	49.8	< 50.2	50.2	< 50.1	50.1
Total TPH		< 50.2	50.2	< 50.0	50.0	<49.8	49.8	<49.8	49.8	< 50.2	50.2	< 50.1	50.1

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Jessica Vramer

Jessica Kramer Project Manager



Analytical Report 652519

for

LT Environmental, Inc.

Project Manager: Christa Leibli

Saguaro #2 10122001 06.05.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



06.05.2020

Project Manager: Christa Leibli LT Environmental, Inc. 4600 W. 60th Avenue Arvada, CO 80003

Reference: XENCO Report No(s): 652519

Saguaro #2
Project Address:

Christa Leibli:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 652519. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 652519 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Sample Cross Reference 652519

LT Environmental, Inc., Arvada, CO

Saguaro #2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH01	S	02.11.2020 11:03	7.5 ft	652519-001
BH01A	S	02.11.2020 12:20	12 ft	652519-002
BH02	S	02.13.2020 08:35	1 ft	652519-003
BH02A	S	02.13.2020 14:55	12 ft	652519-004
BH03	S	02.13.2020 10:35	3 ft	652519-005
BH03A	S	02.13.2020 10:55	6 ft	652519-006
BH04	S	02.13.2020 11:15	1 ft	652519-007
BH04A	S	02.13.2020 11:30	4 ft	652519-008
BH05	S	02.13.2020 11:40	2 ft	652519-009
BH05A	S	02.13.2020 12:15	7 ft	652519-010
BH06	S	02.13.2020 12:30	2 ft	652519-011
BH06A	S	02.13.2020 16:40	6 ft	652519-012
BH07	S	02.13.2020 13:05	3 ft	652519-013
BH07A	S	02.13.2020 13:20	6 ft	652519-014
BH08	S	02.13.2020 15:40	1 ft	652519-015
BH08A	S	02.13.2020 16:25	6 ft	652519-016
BH09	S	02.13.2020 16:00	1 ft	652519-017
BH09A	S	02.13.2020 16:35	6 ft	652519-018

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CASE NARRATIVE



Client Name: LT Environmental, Inc.

Project Name: Saguaro #2

Project ID: Report Date: 06.05.2020 10122001 Work Order Number(s): 652519 Date Received: 02.14.2020

Sample receipt non conformances and comments:

Company name Lucid Energy

V1.001 - Revision Corrected project name

V1.002 - Revision: Regarding sample 018 BH09A, The RPD (Relative Percent Difference) is >+/-20% of

the result. For this particular sample the result is anywhere between 488ppm - 732ppm

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3116796 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



LT Environmental, Inc., Arvada, CO

Saguaro #2

Soil

Sample Id: **BH01** Matrix:

Lab Sample Id: 652519-001 Date Collected: 02.11.2020 11:03 Date Received:02.14.2020 17:50

Sample Depth: 7.5 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

Tech: MAB MAB Analyst:

Date Prep: 02.17.2020 11:00 Basis: Wet Weight

Prep Method: SW8015P

Seq Number: 3116743

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	223	49.6	mg/kg	02.17.2020 12:54		5

Analytical Method: TPH by SW8015 Mod

DTH

Analyst: DTH

Tech:

02.17.2020 12:15 Date Prep:

% Moisture: Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	02.17.2020 15:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	02.17.2020 15:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	02.17.2020 15:38	U	1
Total GRO-DRO	PHC628	<49.8	49.8		mg/kg	02.17.2020 15:38	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	02.17.2020 15:38	U	1
Surrogate	Ca	as Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Fl
1-Chlorooctane	111-85-3	93	%	70-135	02.17.2020 15:38	
o-Terphenyl	84-15-1	103	%	70-135	02.17.2020 15:38	



LT Environmental, Inc., Arvada, CO

Saguaro #2

Sample Id: BH01 Matrix: Soil Date Received:02.14.2020 17:50

Lab Sample Id: 652519-001 Date Collected: 02.11.2020 11:03 Sample Depth: 7.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

% Moisture:

Analyst: MAB Date Prep: 02.17.2020 11:00 Basis: Wet Weight

Seq Number: 3116796

MAB

Tech:

Parameter	Cas Number	r Result	\mathbf{RL}		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.0209	0.00990		mg/kg	02.18.2020 10:14		1
Toluene	108-88-3	< 0.00990	0.00990		mg/kg	02.18.2020 10:14	U	1
Ethylbenzene	100-41-4	< 0.00990	0.00990		mg/kg	02.18.2020 10:14	U	1
m,p-Xylenes	179601-23-1	< 0.0198	0.0198		mg/kg	02.18.2020 10:14	U	1
o-Xylene	95-47-6	< 0.00990	0.00990		mg/kg	02.18.2020 10:14	U	1
Xylenes, Total	1330-20-7	< 0.00990	0.00990		mg/kg	02.18.2020 10:14	U	1
Total BTEX		0.0209	0.00990		mg/kg	02.18.2020 10:14		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	100	%	70-130	02.18.2020 10:14		
4-Bromofluorobenzene		460-00-4	94	%	70-130	02.18.2020 10:14		



LT Environmental, Inc., Arvada, CO

Saguaro #2

Sample Id: **BH01A** Matrix:

Soil Date Received:02.14.2020 17:50

Lab Sample Id: 652519-002 Date Collected: 02.11.2020 12:20

Sample Depth: 12 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 02.17.2020 11:00

Basis: W

Wet Weight

Seq Number: 3116743

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	58.2	9.98	mg/kg	02.17.2020 13:00		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech:

Analyst:

DTH DTH

Date Prep: 02.17.2020 12:15

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	02.17.2020 15:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	02.17.2020 15:17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	02.17.2020 15:17	U	1
Total GRO-DRO	PHC628	<49.9	49.9		mg/kg	02.17.2020 15:17	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	02.17.2020 15:17	U	1
Surrogate	(Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	94	%	70-135	02.17.2020 15:17
o-Terphenyl	84-15-1	105	%	70-135	02.17.2020 15:17



LT Environmental, Inc., Arvada, CO

Saguaro #2

Sample Id: BH01A Matrix: Soil Date Received:02.14.2020 17:50

Lab Sample Id: 652519-002 Date Collected: 02.11.2020 12:20 Sample Depth: 12 ft

540-36-3

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

% Moisture:

70-130

02.18.2020 10:34

Analyst: MAB Date Prep: 02.17.2020 11:00 Basis: Wet Weight

Seq Number: 3116796

1,4-Difluorobenzene

MAB

Tech:

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00980	0.00980		mg/kg	02.18.2020 10:34	U	1
Toluene	108-88-3	< 0.00980	0.00980		mg/kg	02.18.2020 10:34	U	1
Ethylbenzene	100-41-4	< 0.00980	0.00980		mg/kg	02.18.2020 10:34	U	1
m,p-Xylenes	179601-23-1	< 0.0196	0.0196		mg/kg	02.18.2020 10:34	U	1
o-Xylene	95-47-6	< 0.00980	0.00980		mg/kg	02.18.2020 10:34	U	1
Xylenes, Total	1330-20-7	< 0.00980	0.00980		mg/kg	02.18.2020 10:34	U	1
Total BTEX		< 0.00980	0.00980		mg/kg	02.18.2020 10:34	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	94	%	70-130	02.18.2020 10:34		

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LT Environmental, Inc., Arvada, CO

Saguaro #2

Sample Id: BH02 Matrix: Soil Da

Date Received:02.14.2020 17:50

Lab Sample Id: 652519-003 Date Collected: 02.13.2020 08:35

Sample Depth: 1 ft

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

% Moisture:

Analyst: DTH

Date Prep: 02.17.2020 12:15

Basis: Wet Weight

Seq Number: 3116742

Parameter	Cas Number	Result	\mathbf{RL}		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1		mg/kg	02.17.2020 15:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.1	50.1		mg/kg	02.17.2020 15:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	02.17.2020 15:58	U	1
Total GRO-DRO	PHC628	< 50.1	50.1		mg/kg	02.17.2020 15:58	U	1
Total TPH	PHC635	< 50.1	50.1		mg/kg	02.17.2020 15:58	U	1
Surrogate	(Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	
1-Chlorooctane	111-85-3	93	%	70-135	02.17.2020 15:58	
o-Terphenyl	84-15-1	105	%	70-135	02.17.2020 15:58	

Date Prep:

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Basis:

Analyst: MAB

02.17.2020 11:00

Wet Weight

Flag

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.174	0.00962	mg/kg	02.18.2020 10:55		1
Toluene	108-88-3	0.0156	0.00962	mg/kg	02.18.2020 10:55		1
Ethylbenzene	100-41-4	< 0.00962	0.00962	mg/kg	02.18.2020 10:55	U	1
m,p-Xylenes	179601-23-1	< 0.0192	0.0192	mg/kg	02.18.2020 10:55	U	1
o-Xylene	95-47-6	< 0.00962	0.00962	mg/kg	02.18.2020 10:55	U	1
Xylenes, Total	1330-20-7	< 0.00962	0.00962	mg/kg	02.18.2020 10:55	U	1
Total BTEX		0.190	0.00962	mg/kg	02.18.2020 10:55		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	
4-Bromofluorobenzene	460-00-4	92	%	70-130	02.18.2020 10:55	
1.4-Difluorobenzene	540-36-3	99	0/0	70-130	02 18 2020 10:55	



LT Environmental, Inc., Arvada, CO

Saguaro #2

Soil

Sample Id: BH02A Matrix:

Lab Sample Id: 652519-004 Date Collected: 02.13.2020 14:55

Date Received:02.14.2020 17:50

Sample Depth: 12 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

% Moisture:

02.17.2020 15:58

70-135

Analyst: MAB Date Prep: 02.17.2020 11:00 Basis: Wet Weight

Seq Number: 3116743

MAB

Tech:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	56.8	9.96	mg/kg	02.17.2020 13:05		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

84-15-1

Tech: DTH

o-Terphenyl

Analyst: DTH Date Prep: 02.17.2020 12:15 Basis: Wet Weight

Seq Number: 3116742

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	02.17.2020 15:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	02.17.2020 15:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	02.17.2020 15:58	U	1
Total GRO-DRO	PHC628	< 50.0	50.0		mg/kg	02.17.2020 15:58	U	1
Total TPH	PHC635	<50.0	50.0		mg/kg	02.17.2020 15:58	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	99	%	70-135	02.17.2020 15:58		

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LT Environmental, Inc., Arvada, CO

Saguaro #2

Sample Id: BH02A Matrix: Soil Date Received:02.14.2020 17:50

Lab Sample Id: 652519-004 Date Collected: 02.13.2020 14:55 Sample Depth: 12 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 02.17.2020 11:00 Basis: Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00952	0.00952		mg/kg	02.17.2020 18:16	U	1
Toluene	108-88-3	< 0.00952	0.00952		mg/kg	02.17.2020 18:16	U	1
Ethylbenzene	100-41-4	< 0.00952	0.00952		mg/kg	02.17.2020 18:16	U	1
m,p-Xylenes	179601-23-1	< 0.0190	0.0190		mg/kg	02.17.2020 18:16	U	1
o-Xylene	95-47-6	< 0.00952	0.00952		mg/kg	02.17.2020 18:16	U	1
Xylenes, Total	1330-20-7	< 0.00952	0.00952		mg/kg	02.17.2020 18:16	U	1
Total BTEX		< 0.00952	0.00952		mg/kg	02.17.2020 18:16	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	105	%	70-130	02.17.2020 18:16		
4-Bromofluorobenzene		460-00-4	95	%	70-130	02.17.2020 18:16		



LT Environmental, Inc., Arvada, CO

Saguaro #2

Sample Id: BH03 Matrix: Soil

Date Received:02.14.2020 17:50

Lab Sample Id: 652519-005 Date Collected: 02.13.2020 10:35

Sample Depth: 3 ft

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

% Moisture:

Analyst: DTH

Date Prep: 02.17.2020 12:15

Basis: V

Wet Weight

Seq Number: 3116742

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.2	50.2		mg/kg	02.17.2020 16:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2		mg/kg	02.17.2020 16:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	02.17.2020 16:19	U	1
Total GRO-DRO	PHC628	< 50.2	50.2		mg/kg	02.17.2020 16:19	U	1
Total TPH	PHC635	<50.2	50.2		mg/kg	02.17.2020 16:19	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	106	%	70-135	02.17.2020 16:19		

117

84-15-1

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

02.17.2020 16:19

Tech: MAB

% Moisture:

70-135

Analyst: MAB

o-Terphenyl

Date Prep: 02.17.2020 11:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.0555	0.00952		mg/kg	02.17.2020 18:36		1
Toluene	108-88-3	< 0.00952	0.00952		mg/kg	02.17.2020 18:36	U	1
Ethylbenzene	100-41-4	< 0.00952	0.00952		mg/kg	02.17.2020 18:36	U	1
m,p-Xylenes	179601-23-1	< 0.0190	0.0190		mg/kg	02.17.2020 18:36	U	1
o-Xylene	95-47-6	< 0.00952	0.00952		mg/kg	02.17.2020 18:36	U	1
Xylenes, Total	1330-20-7	< 0.00952	0.00952		mg/kg	02.17.2020 18:36	U	1
Total BTEX		0.0555	0.00952		mg/kg	02.17.2020 18:36		1
Surrogate	C	ac Number	% Recovery	Unite	Limite	Analysis Data	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1,4-Difluorobenzene	540-36-3	102	%	70-130	02.17.2020 18:36
4-Bromofluorobenzene	460-00-4	94	%	70-130	02.17.2020 18:36



LT Environmental, Inc., Arvada, CO

Saguaro #2

Sample Id: **BH03A**

Matrix: Soil

Date Received:02.14.2020 17:50

Lab Sample Id: 652519-006

Date Collected: 02.13.2020 10:55

Sample Depth: 6 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech:

Analyst:

Tech:
Analyst:

MAB MAB

Date Prep: 02.17.2020 11:00

Basis:

Wet Weight

Seq Number: 3116743

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 71.3
 9.98
 mg/kg
 02.17.2020 13:11
 1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Basis:

DTH DTH

Date Prep: 02.17.2020 12:15

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	02.17.2020 16:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	02.17.2020 16:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	02.17.2020 16:19	U	1
Total GRO-DRO	PHC628	<49.8	49.8		mg/kg	02.17.2020 16:19	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	02.17.2020 16:19	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	100	%	70-135	02.17.2020 16:19
o-Terphenyl	84-15-1	111	%	70-135	02.17.2020 16:19



LT Environmental, Inc., Arvada, CO

Saguaro #2

Sample Id: BH03A Matrix: Soil Date Received:02.14.2020 17:50

Lab Sample Id: 652519-006 Date Collected: 02.13.2020 10:55 Sample Depth: 6 ft

540-36-3

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

% Moisture:

70-130

02.17.2020 18:57

Analyst: MAB Date Prep: 02.17.2020 11:00 Basis: Wet Weight

Seq Number: 3116796

1,4-Difluorobenzene

MAB

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.0185	0.0100		mg/kg	02.17.2020 18:57		1
Toluene	108-88-3	< 0.0100	0.0100		mg/kg	02.17.2020 18:57	U	1
Ethylbenzene	100-41-4	< 0.0100	0.0100		mg/kg	02.17.2020 18:57	U	1
m,p-Xylenes	179601-23-1	< 0.0200	0.0200		mg/kg	02.17.2020 18:57	U	1
o-Xylene	95-47-6	< 0.0100	0.0100		mg/kg	02.17.2020 18:57	U	1
Xylenes, Total	1330-20-7	< 0.0100	0.0100		mg/kg	02.17.2020 18:57	U	1
Total BTEX		0.0185	0.0100		mg/kg	02.17.2020 18:57		1
Surrogate	C	as Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	4	60-00-4	95	%	70-130	02.17.2020 18:57		

104



LT Environmental, Inc., Arvada, CO

Saguaro #2

Sample Id: **BH04** Matrix: Soil

Date Received:02.14.2020 17:50

Lab Sample Id: 652519-007 Date Collected: 02.13.2020 11:15 Sample Depth: 1 ft

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH % Moisture:

DTH Analyst:

Date Prep: 02.17.2020 12:15 Basis: Wet Weight

Seq Number: 3116742

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.1	50.1		mg/kg	02.17.2020 16:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.1	50.1		mg/kg	02.17.2020 16:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	02.17.2020 16:39	U	1
Total GRO-DRO	PHC628	< 50.1	50.1		mg/kg	02.17.2020 16:39	U	1
Total TPH	PHC635	< 50.1	50.1		mg/kg	02.17.2020 16:39	U	1
Surmogato	,	Cas Number	0/ Dogovory	Units	Limits	A polygic Date	Flog	
Surrogate	•	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Fla
1-Chlorooctane	111-85-3	98	%	70-135	02.17.2020 16:39	
o-Terphenyl	84-15-1	110	%	70-135	02.17.2020 16:39	

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

MAB Tech:

% Moisture:

MAB Analyst:

02.17.2020 11:00 Date Prep:

Basis: Wet Weight

Flag

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00990	0.00990	mg/kg	02.17.2020 19:17	U	1
Toluene	108-88-3	< 0.00990	0.00990	mg/kg	02.17.2020 19:17	U	1
Ethylbenzene	100-41-4	< 0.00990	0.00990	mg/kg	02.17.2020 19:17	U	1
m,p-Xylenes	179601-23-1	< 0.0198	0.0198	mg/kg	02.17.2020 19:17	U	1
o-Xylene	95-47-6	< 0.00990	0.00990	mg/kg	02.17.2020 19:17	U	1
Xylenes, Total	1330-20-7	< 0.00990	0.00990	mg/kg	02.17.2020 19:17	U	1
Total BTEX		< 0.00990	0.00990	mg/kg	02.17.2020 19:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date]
1,4-Difluorobenzene	540-36-3	104	%	70-130	02.17.2020 19:17	
4-Bromofluorobenzene	460-00-4	97	%	70-130	02.17.2020 19:17	



Lab Sample Id: 652519-008

Analytical Method: Chloride by EPA 300

Certificate of Analytical Results 652519

LT Environmental, Inc., Arvada, CO

Saguaro #2

Sample Id: BH04A Matrix: Soil

Date Received:02.14.2020 17:50

Date Collected: 02.13.2020 11:30

Sample Depth: 4 ft

Prep Method: E300P

% Moisture:

MAB MAB Analyst: Date Prep: 02.17.2020 11:00

Basis:

Wet Weight

Seq Number: 3116743

Tech:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	< 9.96	9.96	mg/kg	02.17.2020 13:16	U	1

Analytical Method: TPH by SW8015 Mod

DTH

Prep Method: SW8015P

% Moisture:

DTH Tech:

Analyst:

02.17.2020 12:15 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.3	50.3		mg/kg	02.17.2020 16:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.3	50.3		mg/kg	02.17.2020 16:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.3	50.3		mg/kg	02.17.2020 16:39	U	1
Total GRO-DRO	PHC628	< 50.3	50.3		mg/kg	02.17.2020 16:39	U	1
Total TPH	PHC635	< 50.3	50.3		mg/kg	02.17.2020 16:39	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	104	%	70-135	02.17.2020 16:39
o-Terphenyl	84-15-1	111	%	70-135	02.17.2020 16:39



LT Environmental, Inc., Arvada, CO

Saguaro #2

Sample Id: BH04A Matrix: Soil Date Received:02.14.2020 17:50

Lab Sample Id: 652519-008 Date Collected: 02.13.2020 11:30 Sample Depth: 4 ft

540-36-3

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

% Moisture:

70-130

02.17.2020 19:38

Analyst: MAB Date Prep: 02.17.2020 11:00 Basis: Wet Weight

Seq Number: 3116796

1,4-Difluorobenzene

MAB

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00952	0.00952		mg/kg	02.17.2020 19:38	U	1
Toluene	108-88-3	< 0.00952	0.00952		mg/kg	02.17.2020 19:38	U	1
Ethylbenzene	100-41-4	< 0.00952	0.00952		mg/kg	02.17.2020 19:38	U	1
m,p-Xylenes	179601-23-1	< 0.0190	0.0190		mg/kg	02.17.2020 19:38	U	1
o-Xylene	95-47-6	< 0.00952	0.00952		mg/kg	02.17.2020 19:38	U	1
Xylenes, Total	1330-20-7	< 0.00952	0.00952		mg/kg	02.17.2020 19:38	U	1
Total BTEX		< 0.00952	0.00952		mg/kg	02.17.2020 19:38	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	4	160-00-4	94	%	70-130	02.17.2020 19:38		

105



LT Environmental, Inc., Arvada, CO

Saguaro #2

Soil

Sample Id: BH05 Matrix:

Date Received:02.14.2020 17:50

Lab Sample Id: 652519-009 Date Collected: 02.13.2020 11:40

Sample Depth: 2 ft

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

% Moisture:

Analyst: DTH

Date Prep: 02.17.2020 12:15

Basis:

Wet Weight

Seq Number: 3116742

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	02.17.2020 16:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	02.17.2020 16:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	02.17.2020 16:59	U	1
Total GRO-DRO	PHC628	<49.9	49.9		mg/kg	02.17.2020 16:59	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	02.17.2020 16:59	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	97	%	70-135	02.17.2020 16:59		

108

84-15-1

460-00-4

540-36-3

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

02.17.2020 16:59

Tech:

MAB

% Moisture:

70-135

70-130

70-130

%

%

Analyst: MAB

o-Terphenyl

Date Prep: 02.17.2020 11:00

Basis: W

02.17.2020 20:59

02.17.2020 20:59

Wet Weight

Seq Number: 3116796

4-Bromofluorobenzene

1,4-Difluorobenzene

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.0153	0.00935		mg/kg	02.17.2020 20:59		1
Toluene	108-88-3	< 0.00935	0.00935		mg/kg	02.17.2020 20:59	U	1
Ethylbenzene	100-41-4	< 0.00935	0.00935		mg/kg	02.17.2020 20:59	U	1
m,p-Xylenes	179601-23-1	< 0.0187	0.0187		mg/kg	02.17.2020 20:59	U	1
o-Xylene	95-47-6	< 0.00935	0.00935		mg/kg	02.17.2020 20:59	U	1
Xylenes, Total	1330-20-7	< 0.00935	0.00935		mg/kg	02.17.2020 20:59	U	1
Total BTEX		0.0153	0.00935		mg/kg	02.17.2020 20:59		1
Surrogate	Ca	as Number	% Recovery	Units	Limits	Analysis Date	Flag	

93

104



LT Environmental, Inc., Arvada, CO

Saguaro #2

Sample Id: **BH05A**

Matrix: Soil

Date Received:02.14.2020 17:50

Lab Sample Id: 652519-010

Date Collected: 02.13.2020 12:15

Sample Depth: 7 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: N

Analyst:

MAB MAB

Date Prep: 02.17.2020 11:00

% Moisture: Basis:

Wet Weight

Seq Number: 3116743

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 23.3
 9.98
 mg/kg
 02.17.2020 13:22
 1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech:

Analyst:

DTH DTH

Date Prep: 02.17.2020 12:15

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1		mg/kg	02.17.2020 16:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.1	50.1		mg/kg	02.17.2020 16:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	02.17.2020 16:59	U	1
Total GRO-DRO	PHC628	< 50.1	50.1		mg/kg	02.17.2020 16:59	U	1
Total TPH	PHC635	< 50.1	50.1		mg/kg	02.17.2020 16:59	U	1
Surrogate	(Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	105	%	70-135	02.17.2020 16:59
o-Terphenyl	84-15-1	113	%	70-135	02.17.2020 16:59



LT Environmental, Inc., Arvada, CO

Saguaro #2

Sample Id: BH05A Matrix: Soil Date Received:02.14.2020 17:50

Lab Sample Id: 652519-010 Date Collected: 02.13.2020 12:15 Sample Depth: 7 ft

Prep Method: SW5030B

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 02.17.2020 11:00 Basis: Wet Weight

Seq Number: 3116796

Analytical Method: BTEX by EPA 8021B

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00971	0.00971		mg/kg	02.17.2020 21:20	U	1
Toluene	108-88-3	< 0.00971	0.00971		mg/kg	02.17.2020 21:20	U	1
Ethylbenzene	100-41-4	< 0.00971	0.00971		mg/kg	02.17.2020 21:20	U	1
m,p-Xylenes	179601-23-1	< 0.0194	0.0194		mg/kg	02.17.2020 21:20	U	1
o-Xylene	95-47-6	< 0.00971	0.00971		mg/kg	02.17.2020 21:20	U	1
Xylenes, Total	1330-20-7	< 0.00971	0.00971		mg/kg	02.17.2020 21:20	U	1
Total BTEX		< 0.00971	0.00971		mg/kg	02.17.2020 21:20	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	104	%	70-130	02.17.2020 21:20		
4-Bromofluorobenzene		460-00-4	96	%	70-130	02.17.2020 21:20		



LT Environmental, Inc., Arvada, CO

Saguaro #2

Sample Id: BH06 Matrix: Soil Date

Date Received:02.14.2020 17:50

Lab Sample Id: 652519-011 Date Collected: 02.13.2020 12:30

Sample Depth: 2 ft

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DTH

% Moisture:

Analyst: DTH

Date Prep: 02.17.2020 12:15

Basis: Wet Weight

Seq Number: 3116742

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	02.17.2020 17:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	02.17.2020 17:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	02.17.2020 17:20	U	1
Total GRO-DRO	PHC628	< 50.0	50.0		mg/kg	02.17.2020 17:20	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	02.17.2020 17:20	U	1
Surrogate	(Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1 (11)		111 05 0	0.6	0.4	70.105	02 17 2020 17 20		

 Surrogate
 Cas Number
 % Recovery
 Units
 Limits
 Analysis Date

 1-Chlorooctane
 111-85-3
 86
 %
 70-135
 02.17.2020 17:20

 o-Terphenyl
 84-15-1
 95
 %
 70-135
 02.17.2020 17:20

Date Prep:

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: MAB

% Moisture:

Analyst: MAB

02.17.2020 11:00

Basis: Wet Weight

Flag

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00327	0.00200	mg/kg	02.18.2020 09:13		1
Toluene	108-88-3	0.00546	0.00200	mg/kg	02.18.2020 09:13		1
Ethylbenzene	100-41-4	0.00218	0.00200	mg/kg	02.18.2020 09:13		1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399	mg/kg	02.18.2020 09:13	U	1
o-Xylene	95-47-6	0.00311	0.00200	mg/kg	02.18.2020 09:13		1
Xylenes, Total	1330-20-7	0.00311	0.00200	mg/kg	02.18.2020 09:13		1
Total BTEX		0.0140	0.00200	mg/kg	02.18.2020 09:13		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
4-Bromofluorobenzene	460-00-4	95	%	70-130	02.18.2020 09:13
1,4-Difluorobenzene	540-36-3	100	%	70-130	02.18.2020 09:13



LT Environmental, Inc., Arvada, CO

Saguaro #2

Sample Id: BH06A

Matrix: Soil

Date Received:02.14.2020 17:50

Lab Sample Id: 652519-012

Date Collected: 02.13.2020 16:40

Sample Depth: 6 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech: MAB

Analyst:

MAB

Date Prep: 02.17.2020 11:00

Basis:

Wet Weight

Seq Number: 3116743

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 28.7
 9.98
 mg/kg
 02.17.2020 13:39
 1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

02.17.2020 19:22

02.17.2020 19:22

70-135

70-135

Tech:
Analyst:

DTH DTH

Date Prep: 02.17.2020 17:00

Basis:

Wet Weight

Seq Number: 3116808

1-Chlorooctane

o-Terphenyl

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	02.17.2020 19:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	02.17.2020 19:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	02.17.2020 19:22	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	02.17.2020 19:22	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

89

100

111-85-3

84-15-1



LT Environmental, Inc., Arvada, CO

Saguaro #2

Sample Id: BH06A Matrix: Soil Date Received:02.14.2020 17:50

Lab Sample Id: 652519-012 Date Collected: 02.13.2020 16:40 Sample Depth: 6 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

MAB % Moisture:

540-36-3

Analyst: MAB Date Prep: 02.17.2020 11:00 Basis: Wet Weight

Seq Number: 3116796

1,4-Difluorobenzene

Tech:

Parameter	Cas Number	Result	\mathbf{RL}		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	02.18.2020 11:15	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	02.18.2020 11:15	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	02.18.2020 11:15	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	02.18.2020 11:15	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	02.18.2020 11:15	U	1
Xylenes, Total	1330-20-7	< 0.00199	0.00199		mg/kg	02.18.2020 11:15	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	02.18.2020 11:15	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	102	%	70-130	02.18.2020 11:15		

95

70-130

02.18.2020 11:15



LT Environmental, Inc., Arvada, CO

Saguaro #2

Sample Id: **BH07** Matrix: Soil Date Received:02.14.2020 17:50

Lab Sample Id: 652519-013 Date Collected: 02.13.2020 13:05 Sample Depth: 3 ft

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

% Moisture:

70-135

70-130

02.17.2020 19:22

02.17.2020 22:21

Tech: DTH DTH Analyst: Date Prep: 02.17.2020 17:00 Basis: Wet Weight

Seq Number: 3116808

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	02.17.2020 19:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2		mg/kg	02.17.2020 19:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	02.17.2020 19:22	U	1
Total TPH	PHC635	<50.2	50.2		mg/kg	02.17.2020 19:22	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	97	%	70-135	02.17.2020 19:22		

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Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

% Moisture: Tech: MAB

540-36-3

84-15-1

MAB Analyst: Date Prep: 02.17.2020 11:00 Basis: Wet Weight

Seq Number: 3116796

1,4-Difluorobenzene

o-Terphenyl

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	02.17.2020 22:21	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	02.17.2020 22:21	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	02.17.2020 22:21	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	02.17.2020 22:21	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	02.17.2020 22:21	U	1
Xylenes, Total	1330-20-7	< 0.00200	0.00200		mg/kg	02.17.2020 22:21	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	02.17.2020 22:21	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	96	%	70-130	02.17.2020 22:21		

105



LT Environmental, Inc., Arvada, CO

Saguaro #2

Sample Id: BH07A

)7A

Matrix: Soil

Date Received:02.14.2020 17:50

Lab Sample Id: 652519-014 Date Collected: 02.13.2020 13:20

Sample Depth: 6 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech: MAB

Analyst:

MAB

Date Prep: 02.17.2020 11:00

Basis:

Wet Weight

Seq Number: 3116743

Parameter Result Cas Number RLUnits **Analysis Date** Flag Dil Chloride 02.17.2020 14:00 U 16887-00-6 <9.96 9.96 mg/kg 1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech:

Analyst:

DTH DTH

Date Prep: 02.17.2020 17:00

Basis: Wet Weight

Seq Number: 3116808

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	02.17.2020 19:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	02.17.2020 19:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	02.17.2020 19:42	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	02.17.2020 19:42	U	1
Surrogate	•	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	97	%	70-135	02.17.2020 19:42
o-Terphenyl	84-15-1	106	%	70-135	02.17.2020 19:42



LT Environmental, Inc., Arvada, CO

Saguaro #2

Sample Id: BH07A Matrix: Soil Date Received:02.14.2020 17:50

Lab Sample Id: 652519-014 Date Collected: 02.13.2020 13:20 Sample Depth: 6 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

MAB % Moisture:

Analyst: MAB Date Prep: 02.17.2020 11:00 Basis: Wet Weight

Seq Number: 3116796

Tech:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	02.17.2020 22:41	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	02.17.2020 22:41	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	02.17.2020 22:41	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	02.17.2020 22:41	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	02.17.2020 22:41	U	1
Xylenes, Total	1330-20-7	< 0.00200	0.00200		mg/kg	02.17.2020 22:41	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	02.17.2020 22:41	U	1
Surrogate	Ca	as Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	97	%	70-130	02.17.2020 22:41	
1,4-Difluorobenzene	540-36-3	105	%	70-130	02.17.2020 22:41	



LT Environmental, Inc., Arvada, CO

Saguaro #2

Sample Id: BH08 Matrix: Soil Date Received:02.14.2020 17:50

Lab Sample Id: 652519-015 Date Collected: 02.13.2020 15:40 Sample Depth: 1 ft

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

DTH % Moisture:

Analyst: DTH Date Prep: 02.17.2020 17:00 Basis: Wet Weight

Seq Number: 3116808

Tech:

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	02.17.2020 19:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	02.17.2020 19:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	02.17.2020 19:42	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	02.17.2020 19:42	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	105	%	70-135	02.17.2020 19:42		
o-Terphenyl		84-15-1	107	%	70-135	02.17.2020 19:42		

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 02.17.2020 11:00 Basis: Wet Weight

Seq Number: 3116796

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.0414	0.0100		mg/kg	02.18.2020 09:33		1
Toluene	108-88-3	0.0241	0.0100		mg/kg	02.18.2020 09:33		1
Ethylbenzene	100-41-4	< 0.0100	0.0100		mg/kg	02.18.2020 09:33	U	1
m,p-Xylenes	179601-23-1	< 0.0200	0.0200		mg/kg	02.18.2020 09:33	U	1
o-Xylene	95-47-6	0.0136	0.0100		mg/kg	02.18.2020 09:33		1
Xylenes, Total	1330-20-7	0.0136	0.0100		mg/kg	02.18.2020 09:33		1
Total BTEX		0.0791	0.0100		mg/kg	02.18.2020 09:33		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	103	%	70-130	02.18.2020 09:33		
4-Bromofluorobenzene		460-00-4	94	%	70-130	02.18.2020 09:33		



LT Environmental, Inc., Arvada, CO

Saguaro #2

Sample Id: BH08A Matrix:

Date Prep:

Date Received:02.14.2020 17:50

Lab Sample Id: 652519-016

Soil Date Collected: 02.13.2020 16:25

Sample Depth: 6 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

% Moisture:

Tech: MAB

Analyst:

MAB

02.17.2020 11:00

Basis:

Wet Weight

Seq Number: 3116743

Result **Parameter** Cas Number RLUnits **Analysis Date** Dil Flag Chloride 16887-00-6 56.7 9.98 mg/kg 02.17.2020 14:06 1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech:

Analyst:

DTH DTH

02.17.2020 17:00 Date Prep:

Basis: Wet Weight

02.17.2020 20:02

02.17.2020 20:02

70-135

70-135

Seq Number: 3116808

1-Chlorooctane

o-Terphenyl

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	02.17.2020 20:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	02.17.2020 20:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	02.17.2020 20:02	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	02.17.2020 20:02	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

106

116

111-85-3

84-15-1



LT Environmental, Inc., Arvada, CO

Saguaro #2

Sample Id: BH08A Matrix: Soil Date Received:02.14.2020 17:50

Lab Sample Id: 652519-016 Date Collected: 02.13.2020 16:25 Sample Depth: 6 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

% Moisture:

Analyst: MAB Date Prep: 02.17.2020 11:00 Basis: Wet Weight

Seq Number: 3116796

MAB

Tech:

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00980	0.00980		mg/kg	02.17.2020 23:22	U	1
Toluene	108-88-3	< 0.00980	0.00980		mg/kg	02.17.2020 23:22	U	1
Ethylbenzene	100-41-4	< 0.00980	0.00980		mg/kg	02.17.2020 23:22	U	1
m,p-Xylenes	179601-23-1	< 0.0196	0.0196		mg/kg	02.17.2020 23:22	U	1
o-Xylene	95-47-6	< 0.00980	0.00980		mg/kg	02.17.2020 23:22	U	1
Xylenes, Total	1330-20-7	< 0.00980	0.00980		mg/kg	02.17.2020 23:22	U	1
Total BTEX		< 0.00980	0.00980		mg/kg	02.17.2020 23:22	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	94	%	70-130	02.17.2020 23:22		
1,4-Difluorobenzene		540-36-3	105	%	70-130	02.17.2020 23:22		



LT Environmental, Inc., Arvada, CO

Saguaro #2

Sample Id: BH09 Matrix: Soil Date Received:02.14.2020 17:50

Lab Sample Id: 652519-017 Date Collected: 02.13.2020 16:00 Sample Depth: 1 ft

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DTH % Moisture:

Analyst: DTH Date Prep: 02.17.2020 17:00 Basis: Wet Weight

Seq Number: 3116808

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	02.17.2020 20:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2		mg/kg	02.17.2020 20:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2		mg/kg	02.17.2020 20:22	U	1
Total TPH	PHC635	<50.2	50.2		mg/kg	02.17.2020 20:22	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	98	%	70-135	02.17.2020 20:22		
o-Terphenyl		84-15-1	105	%	70-135	02.17.2020 20:22		

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 02.17.2020 11:00 Basis: Wet Weight

Seq Number: 3116796

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil	
Benzene	71-43-2	0.0410	0.00980		mg/kg	02.18.2020 09:54		1	
Toluene	108-88-3	0.0142	0.00980		mg/kg	02.18.2020 09:54		1	
Ethylbenzene	100-41-4	< 0.00980	0.00980		mg/kg	02.18.2020 09:54	U	1	
m,p-Xylenes	179601-23-1	< 0.0196	0.0196		mg/kg	02.18.2020 09:54	U	1	
o-Xylene	95-47-6	0.0891	0.00980		mg/kg	02.18.2020 09:54		1	
Xylenes, Total	1330-20-7	0.0891	0.00980		mg/kg	02.18.2020 09:54		1	
Total BTEX		0.144	0.00980		mg/kg	02.18.2020 09:54		1	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
1,4-Difluorobenzene		540-36-3	103	%	70-130	02.18.2020 09:54			
4-Bromofluorobenzene		460-00-4	95	%	70-130	02.18.2020 09:54			



LT Environmental, Inc., Arvada, CO

Saguaro #2

Sample Id: BH09A Matrix:

Date Prep:

Date Received:02.14.2020 17:50

Lab Sample Id: 652519-018

Soil Date Collected: 02.13.2020 16:35

02.17.2020 11:00

Sample Depth: 6 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst:

MAB

Basis:

% Moisture:

Wet Weight

Seq Number: 3116743

Parameter Result Cas Number RLUnits **Analysis Date** Dil Flag Chloride 02.17.2020 14:12 16887-00-6 610 9.98 mg/kg 1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DTH DTH

02.17.2020 17:00 Date Prep:

Basis: Wet Weight

Seq Number: 3116808

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.1	50.1		mg/kg	02.17.2020 20:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.1	50.1		mg/kg	02.17.2020 20:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	02.17.2020 20:22	U	1
Total TPH	PHC635	< 50.1	50.1		mg/kg	02.17.2020 20:22	U	1
Surrogate	(Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	98	%	70-135	02.17.2020 20:22
o-Terphenyl	84-15-1	102	%	70-135	02.17.2020 20:22



LT Environmental, Inc., Arvada, CO

Saguaro #2

Sample Id: BH09A Matrix: Soil Date Received:02.14.2020 17:50

Lab Sample Id: 652519-018 Date Collected: 02.13.2020 16:35 Sample Depth: 6 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MAB % Moisture:

460-00-4

Analyst: MAB Date Prep: 02.17.2020 11:00 Basis: Wet Weight

Seq Number: 3116796

4-Bromofluorobenzene

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00980	0.00980		mg/kg	02.18.2020 00:03	U	1
Toluene	108-88-3	< 0.00980	0.00980		mg/kg	02.18.2020 00:03	U	1
Ethylbenzene	100-41-4	< 0.00980	0.00980		mg/kg	02.18.2020 00:03	U	1
m,p-Xylenes	179601-23-1	< 0.0196	0.0196		mg/kg	02.18.2020 00:03	U	1
o-Xylene	95-47-6	< 0.00980	0.00980		mg/kg	02.18.2020 00:03	U	1
Xylenes, Total	1330-20-7	< 0.00980	0.00980		mg/kg	02.18.2020 00:03	U	1
Total BTEX		< 0.00980	0.00980		mg/kg	02.18.2020 00:03	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	104	%	70-130	02.18.2020 00:03		

93

70-130

02.18.2020 00:03



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

QC Summary 652519



LT Environmental, Inc.

Saguaro #2

E300P Analytical Method: Chloride by EPA 300 Prep Method: 3116743 Seg Number: Matrix: Solid Date Prep: 02.17.2020

7696809-1-BLK LCS Sample Id: 7696809-1-BKS LCSD Sample Id: 7696809-1-BSD MB Sample Id:

LCS RPD MB Spike LCS Limits %RPD Units Analysis LCSD LCSD Flag **Parameter** Result Amount Result %Rec Result %Rec Limit Date Chloride <10.0 250 255 102 255 90-110 0 20 02.17.2020 11:54 102 mg/kg

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Seq Number: 3116743 Matrix: Soil Date Prep: 02.17.2020 652519-010 S 652519-010 MS Sample Id: MSD Sample Id: 652519-010 SD Parent Sample Id:

Parent Spike MS MS MSD MSD Limits %RPD RPD Units Analysis **Parameter** Flag Result Amount Result %Rec Result %Rec Limit Date 02.17.2020 13:27 Chloride 23.3 200 232 104 232 104 90-110 0 20 mg/kg

E300P Analytical Method: Chloride by EPA 300 Prep Method:

Seq Number: 3116743 Matrix: Soil Date Prep: 02.17.2020 MS Sample Id: 652566-001 S MSD Sample Id: 652566-001 SD Parent Sample Id: 652566-001

Spike **RPD Parent** MS MS %RPD Units MSD **MSD** Limits Analysis Flag **Parameter** Result Result Limit Date Amount %Rec Result %Rec Chloride 20 02.17.2020 12:10 733 200 948 108 953 110 90-110 mg/kg

SW8015P Analytical Method: TPH by SW8015 Mod Prep Method:

Matrix: Solid Seq Number: 3116742 Date Prep: 02.17.2020 MB Sample Id: LCS Sample Id: 7696815-1-BKS LCSD Sample Id: 7696815-1-BSD 7696815-1-BLK

MB Spike LCS LCS LCSD LCSD Limits %RPD **RPD** Units Analysis Flag **Parameter** Result Limit Date Result Amount %Rec %Rec Result Gasoline Range Hydrocarbons (GRO) 02.17.2020 12:52 35 < 50.0 1000 797 80 837 84 70-135 5 mg/kg 02.17.2020 12:52 Diesel Range Organics (DRO) 870 87 920 92 70-135 35 < 50.0 1000 6 mg/kg

LCS MBMB LCS LCSD Limits Units Analysis LCSD **Surrogate** %Rec %Rec Flag Date Flag %Rec Flag 02.17.2020 12:52 1-Chlorooctane 94 110 119 70-135 % 02.17.2020 12:52 97 o-Terphenyl 97 104 70-135 %

SW8015P Analytical Method: TPH by SW8015 Mod Prep Method:

Seq Number: 3116808 Matrix: Solid Date Prep: 02.17.2020 LCS Sample Id: 7696871-1-BKS LCSD Sample Id: 7696871-1-BSD MB Sample Id: 7696871-1-BLK

MB Spike LCS LCS %RPD RPD Units Analysis LCSD LCSD Limits **Parameter** Limit Result Amount Result %Rec Date Result %Rec Gasoline Range Hydrocarbons (GRO) 02.17.2020 17:40 1000 936 94 741 74 35 < 50.0 70-135 23 mg/kg 02.17.2020 17:40 1010 Diesel Range Organics (DRO) 101 803 70-135 < 50.0 1000 80 23 35 mg/kg

MB MB LCS LCS LCSD Units Analysis LCSD Limits **Surrogate** Flag Date %Rec Flag %Rec %Rec Flag 02.17.2020 17:40 1-Chlorooctane 71 117 101 70-135 % 02.17.2020 17:40 o-Terphenyl 77 113 93 70-135 %

MS/MSD Percent Recovery [D] = 100*(C-A) / BRelative Percent Difference $RPD = 200* \mid (C-E) \mid (C+E) \mid$

[D] = 100 * (C) / [B]LCS/LCSD Recovery Log Diff. = Log(Sample Duplicate) - Log(Original Sample) Log Difference = MSD/LCSD Result

LCS = Laboratory Control Sample = Parent Result = MS/LCS Result

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec Flag

QC Summary 652519



LT Environmental, Inc.

Saguaro #2

Analytical Method: TPH by SW8015 Mod

3116742 Seq Number:

Matrix: Solid

SW8015P Prep Method:

MB Sample Id: 7696815-1-BLK

Parameter

MBResult

Units

Date Prep:

Date Prep:

Analysis Flag Date

Motor Oil Range Hydrocarbons (MRO) < 50.0

02.17.2020 12:32 mg/kg

02.17.2020

Analytical Method: TPH by SW8015 Mod

Seq Number:

3116808

Matrix: Solid

Prep Method: SW8015P

MB Sample Id: 7696871-1-BLK

Parameter

MBResult

Units

Analysis Flag Date

Flag

Motor Oil Range Hydrocarbons (MRO) < 50.0

02.17.2020 17:40

Analytical Method: TPH by SW8015 Mod

Seq Number:

3116742

Matrix: Soil

Prep Method: Date Prep: 02.17.2020

SW8015P

02.17.2020

Parent Sample Id: 652566-001

MS Sample Id: 652566-001 S

MSD Sample Id: 652566-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Gasoline Range Hydrocarbons (GRO)	<49.9	998	846	85	809	81	70-135	4	35	mg/kg	02.17.2020 13:12
Diesel Range Organics (DRO)	<49.9	998	953	95	894	90	70-135	6	35	mg/kg	02.17.2020 13:12

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	107		99		70-135	%	02.17.2020 13:12
o-Terphenyl	106		100		70-135	%	02.17.2020 13:12

Analytical Method: TPH by SW8015 Mod

3116808

Matrix: Soil

Prep Method:

SW8015P

Date Prep:

02.17.2020

MS Sample Id: 652644-002 S MSD Sample Id: 652644-002 SD Parent Sample Id: 652644-002 %RPD RPD **Parent** Spike MS **MSD** Limits Units **Parameter**

Gasoline Range Hydrocarbons (GRO)

Seq Number:

Amount 996 MS

MSD

Analysis Flag Date

Result Limit Result %Rec Result %Rec <49.8 35 02.17.2020 18:21 832 84 931 93 70-135 11 mg/kg 02.17.2020 18:21 <49.8 996 883 992 70-135 12 Diesel Range Organics (DRO) 89 99 35 mg/kg

MS MS **MSD** Limits Units Analysis **MSD Surrogate** %Rec Flag %Rec Flag Date 02.17.2020 18:21 113 1-Chlorooctane 114 70-135 % 02.17.2020 18:21 o-Terphenyl 102 112 70-135 %

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result

= MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike AddedD = MSD/LCSD % Rec

QC Summary 652519



LT Environmental, Inc.

Saguaro #2

Analytical Method: BTEX by EPA 8021B SW5030B Prep Method: Seq Number: 3116796 02.17.2020 Matrix: Solid Date Prep: LCS Sample Id: 7696813-1-BKS MB Sample Id: 7696813-1-BLK LCSD Sample Id: 7696813-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.106	106	0.109	109	70-130	3	35	mg/kg	02.17.2020 14:32	
Toluene	< 0.00200	0.100	0.102	102	0.104	104	70-130	2	35	mg/kg	02.17.2020 14:32	
Ethylbenzene	< 0.00200	0.100	0.0966	97	0.0976	98	71-129	1	35	mg/kg	02.17.2020 14:32	
m,p-Xylenes	< 0.00400	0.200	0.197	99	0.199	100	70-135	1	35	mg/kg	02.17.2020 14:32	
o-Xylene	< 0.00200	0.100	0.100	100	0.101	101	71-133	1	35	mg/kg	02.17.2020 14:32	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			Limits Units		Analysis Date	
1,4-Difluorobenzene	105	105 104			105		70	70-130		02.17.2020 14:32		
4-Bromofluorobenzene	94		9	3		92		70	-130	%	02.17.2020 14:32	

Analytical Method: BTEX by EPA 8021B

Seq Number: 3116796 Matrix: Soil Date Prep: 02.17.2020 MS Sample Id: 652514-025 S MSD Sample Id: 652514-025 SD Parent Sample Id: 652514-025

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.0998	0.0771	77	0.0828	83	70-130	7	35	mg/kg	02.17.2020 15:53	
Toluene	< 0.00200	0.0998	0.0734	74	0.0717	72	70-130	2	35	mg/kg	02.17.2020 15:53	
Ethylbenzene	< 0.00200	0.0998	0.0866	87	0.0796	80	71-129	8	35	mg/kg	02.17.2020 15:53	
m,p-Xylenes	< 0.00399	0.200	0.157	79	0.150	76	70-135	5	35	mg/kg	02.17.2020 15:53	
o-Xylene	< 0.00200	0.0998	0.0801	80	0.0818	82	71-133	2	35	mg/kg	02.17.2020 15:53	

Surrogate	MS %Rec	Flag	MSD %Rec	Flag	Limits	Units	Date Date
1,4-Difluorobenzene	104		105		70-130	%	02.17.2020 15:53
4-Bromofluorobenzene	93		96		70-130	%	02.17.2020 15:53

SW5030B

Prep Method:

	Page 87 of
Project Manager	U
anager:	(EX

Chain of Custody

Work Order No: 6525/7

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296

1	Hobbs, NM (5)	Midland,TX (432-704-5 75-392-7550) Phoenix,	Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	-620-2000) www.xenco.com Page of 2
lanager:	Christa Leibli	Bill to: (if different)	Michael Gant	Work Order Com
Name:	LT Environmental, Inc., Permian office	Company Name:	Lucid Energy	Program: UST/PST PRP Brownfields RC uperfund
	3300 North A St. Bldg 1, Unit 222	Address:		State of Project: NM
e ZIP:	Midland, TX 79705	City, State ZIP:	Artesia, NM	Reporting:Level III
	(432) 701-2610 E	mail: aager@ltenv	Email: aager@ltenv.com_cleibli@ltenv.com rmcafee@ltenv.com	Deliverables: EDD ☐ ADaPT ☐ Other:
ame:	Saguro	Turn Around	ANALYSIS REQUEST	EST Work Order Notes
umber:	101220001	Routine 🔯		
ber:		Rush:		

elinquished by: (Signature)	: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions rice. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control co. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Circle Method(s) and Metal(s) to be analyzed	otal 200.7 / 6010	BH05A	BH05	BH04A	BH04	вноза	ВН03	BH02A	ВН02	BH01A	BH01	Sample Identification	ple Custody Seals	ler Custody Seals:	eived Intact:	perature (°C):	AMPLE RECEIPT	pler's Name:	. Number:	ect Number:
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y: (Signatu	tes a valid pur ssume any res charge of \$5	CLP / SPI	8RCRA 13P	1215	Ohll	1130	1115	1055	1035	1455	0836	1220	1103	Time Sampled	Total Containers:	Correction Factor:	TNIMO	Thermometer ID	Wet Ice:	Due	Rush:	Routine
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Date/Time		1631 / 245.1 / 7470 / 7471 : Hg	SiO2 Na Sr Tl Sn U V Zn	Discrete	Sample Comments	lab, if received by 4:30pm	TAT starts the day receyied by the															
mag	ging: 1/	15/2	02	1:4	10:0	19 P	M					_		40.44								

Revised Date 051418 Rev. 2018.1

8/4/20

7:50

Revised Date 051418 Rev. 2018.

Chain of Custody

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

in of custody	Work Order No:
X (214) 902-0300 San Antonio, TX (210) 509-3334	
so,TX (915)585-3443 Lubbock,TX (806)794-1296	

		V'sqqoH	MM (575-392	-7550) Phoenix	,AZ (480-:	(22-0300)	Atlanta,(3A (770-449	Hobbs,NM (5/5-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	FL (813-620	.2000)	www.xenco.com	com Page	1 of 1
Project Manager:	Christa Leibli			Bill to: (if different)	ant) N	Michael Gant	ant					Work Or	1 6	
Company Name:	LT Environmental, Inc., Permian office	Permian office	6	Company Name:		Lucid Energy	,db				Program: UST/PST		Rrownfields D	
Address:	3300 North A St. Bldg 1, Unit 222	, Unit 222		Address:							State of Project:	_ _ _ _		
City, State ZIP:	Midland, TX 79705			City, State ZIP:		Artesia, NM	5			~	Reporting:Level II	evel III	PST/UST R	RRP Bvel IV
Phone:	(432) 701-2610		Email:	Email: aager@ltenv.		eibli@lt	env.con	n rmcafee	com_cleibli@ltenv.com rmcafee@ltenv.com		Deliverables: EDD			Other:
Project Name:	Saguro		TuT	Turn Aroung					ANALYSIS REQUEST	REQUEST			Wor	Work Order Notes
Project Number:	101220001		Routine	Je 🖸										
P.O. Number:			Rush:											
Sampler's Name:	Robert McAfee		Due Date:)ate:										
SAMPLE RECEIPT	:IPT Temp Blank:	Yes No	Wet Ice:	Yes No	1		Le							
Temperature (°C):	000	4	Thermometer ID		SJOI		-							
Received Intact:	yes No				nistr		(0.0							
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Sample Identification	tification Matrix		Time	Depth	equi	4 (EP	loride							
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ВНО	S	2/13/2020	1230	12	-	×	•							Discrete
BH06A	S S	2/13/2020 /	1640	6/	1	×	×							Discrete
BH07	S 2	2/13/2020	1305	3/	-	×								Discrete
BH07A	S S	2/13/2020	1320	19	1	×	×							Discrete
BH08	s	2/13/2020 /	1540	,)	1 ×	×								Discrete
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Total 200.7 / 6010	10 200.8 / 6020:	8	3A 13PP	13PPM Texas 11		Sb As Ba	Be	Cd Ca C	r Co Cu Fe	Pb Mg	Cr Co Cu Fe Pb Mg Mn Mo Ni K	Se Ag SiO2 Na Sr TI	Na Sr Ti Sn U	U V Zn
Circle Method(:	Circle Method(s) and Metal(s) to be analyzed		LP / SPL	TCLP / SPLP 6010: 8RCRA	- 11	Sb As Ba	Be	Cr Co	Cd Cr Co Cu Pb Mn Mo Ni	Mo Ni Se	Se Ag TI U	N.	1631/245.1/7	1631 / 245.1 / 7470 / 7471 : Hg
Votice: Signature of this do	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from clie	amples constitutes	a valid purch	ase order from c	lient comp	inv to Xen	to its affil	iates and suf	ent company to Xenco. Its affiliates and subcontractors. It assigns stands	bucha anniaa	the property of the			

of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Date/Time Received by: (Signature) Relinquished by: (Signature) Date/Time 8 ST N Received by: (Signature) Relinquished by: (Signature)

Released to Imaging: 1/15/2021 1:40:09 PM

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 02.14.2020 05.50.00 PM

Air and Metal samples Acceptable Range: Ambient

Work Order #: 652519

Analyst:

Temperature Measuring device used: TNM 007

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		.8	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping contain	ner/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?		No	
#6*Custody Seals Signed and dated?		No	
#7 *Chain of Custody present?		Yes	
#8 Any missing/extra samples?		No	
#9 Chain of Custody signed when relinquish	ed/ received?	Yes	
#10 Chain of Custody agrees with sample la	bels/matrix?	Yes	
#11 Container label(s) legible and intact?		Yes	
#12 Samples in proper container/ bottle?		Yes	
#13 Samples properly preserved?		Yes	
#14 Sample container(s) intact?		Yes	
#15 Sufficient sample amount for indicated t	est(s)?	Yes	
#16 All samples received within hold time?		Yes	
#17 Subcontract of sample(s)?		No	
#18 Water VOC samples have zero headspa	ace?	N/A	

* Must be completed for after-hours deliver	v of samp	oles prior to	placing in the	he refrigerator
made be completed for ditor medic deliver	<i>,</i> 0. 0ap	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	p.aog t.	

Checklist completed by:	Ollians.	Date: 02.15.2020
	Martha Castro	
Checklist reviewed by:	Jessica Vramer	Date: 02.18.2020

Jessica Kramer

PH Device/Lot#:



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

September 11, 2020

Michael Gant Lucid Energy Delaware 201 South 4th St. Artesia, NM 88210 TEL: (575) 513-8988

FAX:

RE: Saguaro 2 OrderNo.: 2009217

Dear Michael Gant:

Hall Environmental Analysis Laboratory received 3 sample(s) on 9/3/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 2009217

Date Reported: 9/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Client Sample ID: FS01@6'

 Project:
 Saguaro 2
 Collection Date: 9/2/2020 11:00:00 AM

 Lab ID:
 2009217-001
 Matrix: SOIL
 Received Date: 9/3/2020 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	9/6/2020 3:39:06 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/6/2020 3:39:06 AM
Surr: DNOP	102	30.4-154	%Rec	1	9/6/2020 3:39:06 AM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	9/10/2020 7:08:41 PM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: DJF
Benzene	ND	0.025	mg/Kg	1	9/5/2020 5:19:21 PM
Toluene	ND	0.049	mg/Kg	1	9/5/2020 5:19:21 PM
Ethylbenzene	ND	0.049	mg/Kg	1	9/5/2020 5:19:21 PM
Xylenes, Total	ND	0.098	mg/Kg	1	9/5/2020 5:19:21 PM
Surr: 1,2-Dichloroethane-d4	92.4	70-130	%Rec	1	9/5/2020 5:19:21 PM
Surr: 4-Bromofluorobenzene	97.3	70-130	%Rec	1	9/5/2020 5:19:21 PM
Surr: Dibromofluoromethane	107	70-130	%Rec	1	9/5/2020 5:19:21 PM
Surr: Toluene-d8	95.8	70-130	%Rec	1	9/5/2020 5:19:21 PM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/5/2020 5:19:21 PM
Surr: BFB	104	70-130	%Rec	1	9/5/2020 5:19:21 PM

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

Qualifiers:

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

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

Page 1 of 8

Analytical Report
Lab Order 2009217

Date Reported: 9/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Client Sample ID: FS02@6'

 Project:
 Saguaro 2
 Collection Date: 9/2/2020 11:10:00 AM

 Lab ID:
 2009217-002
 Matrix: SOIL
 Received Date: 9/3/2020 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/6/2020 4:03:19 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/6/2020 4:03:19 AM
Surr: DNOP	49.8	30.4-154	%Rec	1	9/6/2020 4:03:19 AM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	280	60	mg/Kg	20	9/10/2020 7:21:06 PM
EPA METHOD 8260B: VOLATILES SHORT LI	ST				Analyst: DJF
Benzene	ND	0.024	mg/Kg	1	9/5/2020 6:45:12 PM
Toluene	ND	0.048	mg/Kg	1	9/5/2020 6:45:12 PM
Ethylbenzene	ND	0.048	mg/Kg	1	9/5/2020 6:45:12 PM
Xylenes, Total	ND	0.097	mg/Kg	1	9/5/2020 6:45:12 PM
Surr: 1,2-Dichloroethane-d4	96.9	70-130	%Rec	1	9/5/2020 6:45:12 PM
Surr: 4-Bromofluorobenzene	96.0	70-130	%Rec	1	9/5/2020 6:45:12 PM
Surr: Dibromofluoromethane	109	70-130	%Rec	1	9/5/2020 6:45:12 PM
Surr: Toluene-d8	97.4	70-130	%Rec	1	9/5/2020 6:45:12 PM
EPA METHOD 8015D MOD: GASOLINE RANG	GE .				Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/5/2020 6:45:12 PM
Surr: BFB	103	70-130	%Rec	1	9/5/2020 6:45:12 PM

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

Qualifiers:

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

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

Page 2 of 8

Analytical Report Lab Order 2009217

Date Reported: 9/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Lucid Energy Delaware Client Sample ID: FS03@6'

 Project:
 Saguaro 2
 Collection Date: 9/2/2020 11:15:00 AM

 Lab ID:
 2009217-003
 Matrix: SOIL
 Received Date: 9/3/2020 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: mb
Diesel Range Organics (DRO)	80	9.7	mg/Kg	1	9/6/2020 4:27:40 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/6/2020 4:27:40 AM
Surr: DNOP	51.6	30.4-154	%Rec	1	9/6/2020 4:27:40 AM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	150	60	mg/Kg	20	9/10/2020 7:33:31 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	T				Analyst: DJF
Benzene	ND	0.12	mg/Kg	5	9/5/2020 8:10:43 PM
Toluene	ND	0.24	mg/Kg	5	9/5/2020 8:10:43 PM
Ethylbenzene	ND	0.24	mg/Kg	5	9/5/2020 8:10:43 PM
Xylenes, Total	0.55	0.48	mg/Kg	5	9/5/2020 8:10:43 PM
Surr: 1,2-Dichloroethane-d4	96.9	70-130	%Rec	5	9/5/2020 8:10:43 PM
Surr: 4-Bromofluorobenzene	98.6	70-130	%Rec	5	9/5/2020 8:10:43 PM
Surr: Dibromofluoromethane	108	70-130	%Rec	5	9/5/2020 8:10:43 PM
Surr: Toluene-d8	97.5	70-130	%Rec	5	9/5/2020 8:10:43 PM
EPA METHOD 8015D MOD: GASOLINE RANG	E				Analyst: DJF
Gasoline Range Organics (GRO)	ND	24	mg/Kg	5	9/5/2020 8:10:43 PM
Surr: BFB	107	70-130	%Rec	5	9/5/2020 8:10:43 PM

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

Qualifiers:

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

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

Page 3 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: **2009217**

15-Sep-20

Client: Lucid Energy Delaware

Project: Saguaro 2

Sample ID: MB-55077 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 55077 RunNo: 71765

Prep Date: 9/10/2020 Analysis Date: 9/10/2020 SeqNo: 2510884 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-55077 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 55077 RunNo: 71765

Prep Date: 9/10/2020 Analysis Date: 9/10/2020 SeqNo: 2510885 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.9 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 4 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: **2009217**

15-Sep-20

Client: Lucid Energy Delaware

Project: Saguaro 2

Sample ID: LCS-54955 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 54955 RunNo: 71657 Prep Date: 9/4/2020 Analysis Date: 9/5/2020 SeqNo: 2505399 Units: mg/Kg PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Result LowLimit Diesel Range Organics (DRO) 10 0 53 50.00 106 70 130 Surr: DNOP 3.9 5.000 77.3 30.4 154

Sample ID: MB-54955 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 54955 RunNo: 71657 Prep Date: 9/4/2020 Analysis Date: 9/5/2020 SeqNo: 2505404 Units: mg/Kg Qual Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Diesel Range Organics (DRO) ND 10

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

Surr: DNOP 8.3 10.00 82.6 30.4 154

Qualifiers:

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

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

Page 5 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: **2009217**

15-Sep-20

Client: Lucid Energy Delaware

Project: Saguaro 2

Sample ID: mb-54944	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batcl	n ID: 54 9	944	F	RunNo: 7	1645				
Prep Date: 9/3/2020	Analysis D	oate: 9/	5/2020	8	SeqNo: 2	504612	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: 1,2-Dichloroethane-d4	0.48		0.5000		97.0	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.5	70	130			
Surr: Dibromofluoromethane	0.56		0.5000		112	70	130			
Surr: Toluene-d8	0.46		0.5000		91.8	70	130			

Sample ID: Ics-54944	Samp1	Гуре: LC	S4	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: BatchQC	Batc	h ID: 54 9	944	F	RunNo: 7	1645				
Prep Date: 9/3/2020	Analysis [Date: 9/	5/2020	S	SeqNo: 2	504722	Units: mg/k	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.3	80	120			
Toluene	0.96	0.050	1.000	0	96.1	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.8	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		97.8	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		101	70	130			
Surr: Dibromofluoromethane	0.55		0.5000		110	70	130			
Surr: Toluene-d8	0.47		0.5000		93.6	70	130			

Sample ID: 2009217-001ams	SampT	ype: MS	64	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: FS01@6'	Batch	n ID: 54 9	944	F	RunNo: 7	1651				
Prep Date: 9/3/2020	Analysis D	Date: 9/	5/2020	8	SeqNo: 2	504900	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.024	0.9785	0	96.8	71.1	115	•		
Toluene	1.0	0.049	0.9785	0	103	79.6	132			
Ethylbenzene	1.0	0.049	0.9785	0	106	83.8	134			
Xylenes, Total	3.3	0.098	2.935	0	111	82.4	132			
Surr: 1,2-Dichloroethane-d4	0.46		0.4892		93.3	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.4892		98.6	70	130			
Surr: Dibromofluoromethane	0.54		0.4892		109	70	130			
Surr: Toluene-d8	0.47		0.4892		96.8	70	130			

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 6 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: **2009217**

15-Sep-20

Client: Lucid Energy Delaware

Project: Saguaro 2

Sample ID: 2009217-001amsd	SampT	ype: MS	5D4	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: FS01@6'	Batcl	n ID: 54 9	944	F	RunNo: 7	1651				
Prep Date: 9/3/2020	Analysis D	Date: 9/	5/2020	8	SeqNo: 2	504901	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	0.9940	0	97.4	71.1	115	2.19	20	
Toluene	1.0	0.050	0.9940	0	103	79.6	132	1.50	20	
Ethylbenzene	1.1	0.050	0.9940	0	109	83.8	134	5.15	20	
Xylenes, Total	3.3	0.099	2.982	0	112	82.4	132	2.26	20	
Surr: 1,2-Dichloroethane-d4	0.46		0.4970		92.1	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.50		0.4970		101	70	130	0	0	
Surr: Dibromofluoromethane	0.54		0.4970		109	70	130	0	0	
Surr: Toluene-d8	0.49		0.4970		98.3	70	130	0	0	

Qualifiers:

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

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

Page 7 of 8

Hall Environmental Analysis Laboratory, Inc.

2009217 15-Sep-20

WO#:

Client: Lucid Energy Delaware

Project: Saguaro 2

Sample ID: mb-54944 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 54944 RunNo: 71645

Prep Date: 9/3/2020 Analysis Date: 9/5/2020 SeqNo: 2504782 Units: mq/Kq

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 510 500.0 103 70 130

Sample ID: Ics-54944 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 54944 RunNo: 71645

Prep Date: 9/3/2020 Analysis Date: 9/5/2020 SeqNo: 2504783 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 70 Gasoline Range Organics (GRO) 5.0 25.00 O 90.6 130 Surr: BFB 530 500.0 107 70 130

Sample ID: 2009217-002ams SampType: MS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: FS02@6' Batch ID: 54944 RunNo: 71651

Prep Date: 9/3/2020 Analysis Date: 9/5/2020 SeqNo: 2504940 Units: mg/Kg

Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte PQL LowLimit Qual Gasoline Range Organics (GRO) 24 4.9 24.61 0 96.7 49.2 122 Surr: BFB 70 540 492.1 109 130

TestCode: EPA Method 8015D Mod: Gasoline Range Sample ID: 2009217-002amsd SampType: MSD

Client ID: FS02@6' Batch ID: 54944 RunNo: 71651

Prep Date: 9/3/2020 Analysis Date: 9/5/2020 SeqNo: 2504941 Units: mg/Kg SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual 122 Gasoline Range Organics (GRO) 22 91.0 49.2 5.60 4.9 24.73 20 Surr: BFB 510 494.6 103 70 130 0 0

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 8 of 8



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name:	Lucid Ener	gy Delaware	Work	Order Num	ber: 200	9217			RcptNo	: 1
Received By:	Juan Roja	ıs	9/3/202	0 8:00:00 <i>A</i>	ΔM		Glean	3		
Completed By:	Juan Roja			0 9:20:14 <i>A</i>			Glean	39	_	
Reviewed By:		9/3/20		0 0.20,	•••			2		
Chain of Cust	tody									
1. Is Chain of Cu		lete?			Yes	V	No		Not Present	
2. How was the	sample deliv	ered?			Cou	<u>rier</u>				
Log In										
3. Was an attem	pt made to c	ool the sample	es?		Yes	✓	No		NA 🗌	
4. Were all samp	les received	at a temperat	ure of >0° C	to 6.0°C	Yes	V	No		NA 🗆	
5. Sample(s) in p	oroper contai	ner(s)?			Yes	✓	No			
6. Sufficient samp	ple volume fo	or indicated te	st(s)?		Yes	V	No			
7. Are samples (e				ed?	Yes	✓	No			
8. Was preservat	ive added to	bottles?			Yes		No	✓	NA 🗌	
9. Received at lea	ast 1 vial with	h headspace <	<1/4" for AQ V	OA?	Yes		No		NA 🗸	
10. Were any sam	ple containe	ers received br	oken?		Yes		No	~	#-5	
								_	# of preserved bottles checked	
11. Does paperwoi (Note discrepa					Yes	V	No l		for pH:	>12 unless noted)
(Note discrepancies on chain of custody) 12. Are matrices correctly identified on Chain of Custody?				Yes	V	No [Adjusted?		
13. Is it clear what analyses were requested?					Yes	✓	No [0//1
14. Were all holding times able to be met? (If no, notify customer for authorization.)				Yes	v	No [Checked by:	nc 9/2/2	
								L		,
Special Handli			was burney our visit							
15. Was client not	ified of all dis	screpancies w	ith this order?	10)	Yes	Ш	No	Ш	NA 🗹	7
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Client: Mailing	QA/QQ	6/13/							Date:

<u>District I</u> 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

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

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

CONDITIONS

Action 10504

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
LUCID ARTESIA COMPANY	201 South Fourth Street	Artesia, NM88210	147831	10504	C-141

OCD Reviewer	Condition
ceads	None