

Incident ID	nAPP2210152427
District RP	
Facility ID	
Application ID	

Closure

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

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

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

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

Printed Name: Hayden Acosta Title: EHS Coordinator
 Signature: Hayden Acosta Date: 06/30/2022
 email: Hayden.Acosta@scmid.com Telephone: 505-249-9506

OCD Only

Received by: Robert Hamlet Date: 11/2/2022

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Robert Hamlet Date: 11/2/2022

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

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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Release Notification

Responsible Party

Responsible Party SCM Operations, LLC	OGRID 330368
Contact Name Hayden Acosta	Contact Telephone 505-249-9506
Contact email Hayden.Acosta@scmid.com	Incident # (assigned by OCD) nAPP2210152427
Contact mailing address 1311 Interstate 20 West, Pecos, TX 79772	

Location of Release Source

Latitude 32.01812 Longitude -103.97737
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Welcome to Golden Compressor Station	Site Type Gas Compressor Station
Date Release Discovered 04/02/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
D	27	26S	29E	Eddy

Surface Owner: State Federal Tribal Private (Name: George Ross Ranch, LLC)

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input checked="" type="checkbox"/> Other (describe) Condensate/glycol mixture	Volume/Weight Released (provide units) 44.51 gal / 1.06 bbl	Volume/Weight Recovered (provide units) 44.51 gal / 1.06 bbl

Cause of Release

Condensate mixed with glycol and heat within the dehydration unit, causing an upset in the system and the PSV to burp. The liquids hit the reboiler smokestack and immediately caught fire. Multiple operators were on location when the fire occurred. They were able to ensure the dehydration system was shut down and the fire was extinguished in a timely manner. The spill area was approximately 350 ft² and a depth up to 8 inches in some areas of the hard pack caliche soil (~ 44.51 gallons of fluid).

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Fire
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, Hayden Acosta emailed Mike Bratcher on 04/03/2022 at 12:09 pm.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Hayden Acosta</u>	Title: <u>EHS Coordinator</u>
Signature: <u>Hayden Acosta</u>	Date: <u>04/13/2022</u>
email: <u>Hayden.Acosta@scmid.com</u>	Telephone: <u>505-249-9506</u>
<u>OCD Only</u> Received by: _____ Date: _____	

Incident ID	nAPP2210152427
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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?	<u>>65</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology? (Medium karst)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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.
- 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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Printed Name: Hayden Acosta Title: EHS Coordinator

Signature: Hayden Acosta Date: 06/30/2022

email: Hayden.Acosta@scmid.com Telephone: 505-249-9506

OCD Only

Received by: _____ Date: _____

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Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



Lighthouse
ENVIRONMENTAL SERVICES

June 27, 2022

Lighthouse Project #: 2202-5618

Ms. Hayden Acosta
Salt Creek Midstream, LLC
1359 Interstate 20 West
Pecos, Texas 79772

**RE: Summary of Soil Remediation Activities
Salt Creek Midstream, LLC
Welcome to Golden Compressor Station Release
Incident ID No. nAPP2210152427
Release Date: April 2, 2022
Eddy County, New Mexico**

Dear Ms. Acosta:

Lighthouse Environmental Services, Inc. (Lighthouse) prepared this letter report to summarize the soil remediation activities conducted at the Welcome to Golden Compressor Station Release, hereinafter referred to as the "site". The site is located in Section 27 Township 26 South Range 29 East in Eddy County, New Mexico. The geodetic coordinates are N 32.018117, W 103.977367, The location of the site is provided as an attachment to this report on Figure 1.

Background

On April 2, 2022, a heated mixture of condensate and glycol within the on-site dehydration unit caused an upset in the gas gathering system at the Welcome to Golden Compressor Station, subsequently allowing the on-site pressure safe valve (PSV) to expel the liquid through the reboiler smokestack. Approximately 1.06 barrels (bbls) of the liquid mixture was released from the smokestack, which immediately caused a fire to occur at the site. The liquids spill area measured approximately 350 square feet (ft²) with approximate depths up to eight (8) inches below ground surface (bgs) in the on-site hard pack caliche. The site is leased and operated by Salt Creek Midstream, LLC (SCM). The release was reported to the New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation District (OCD) on April 3, 2022, and a Notification of Release Form C-141 was filed on April 13, 2022. The OCD assigned the release the incident number nAPP2210152427.

June 27, 2022

Ms. Hayden Acosta

Welcome to Golden Compressor Station Release

Incident No. nAPP2210152427

Page 2 of 3

Site Characterization

The New Mexico Office of the State Engineer (OSE) groundwater database was utilized to determine the nearby registered wells located within a half (0.5) mile radius of the site. The well logs associated with the OSE File Number C-03605, which is located a half (0.5) miles southeast of the site, groundwater was not reported to be shallower than 45 to 65 feet below ground surface. Based on this determination, the remediation standards for soils at the site are 10,000 milligrams per Kilogram (mg) of chloride, 2,500 mg/Kg of total petroleum hydrocarbon (TPH GRO/DRO), 10 mg/Kg of benzene and 50 mg/Kg of total benzene, toluene, ethylbenzene and xylenes (BTEX). According to the New Mexico Bureau of Land Management (BLM), the site is located in an area of medium potential karst topography. The release did not occur in a sensitive area. The associated well logs, Karst topography map and Federal Emergency Management Agency (FEMA) flood map are included in the Attachments in Site Characterization.

Remediation

On April 7, 2022, initial remediation activities were conducted at the site. Impacted soil was excavated by SCM's remediation contractor, Lighthouse. Heavy equipment was utilized to remove on-site impacted soils surrounding the release point. The excavated area measured approximately 20 feet by 10 feet with an approximate depth of 1.5 feet bgs. Figure 3, included in the Attachments, indicates the release area in proximity to pertinent site boundaries.

Additional activities were conducted on May 19, 2022. Confirmation soil samples CS-1 through CS-6 were collected once additional impacted soil was excavated.

Prior to implementation of remediation activities, Lighthouse prepared a site-specific Health and Safety Plan (HASP) addressing the known and potential hazards that could be encountered during the field activities. Lighthouse conducted remediation activities from April 7, 2022, to May 19, 2022. Impacted soil near the release source area was over-excavated using mechanical excavation methods. Impacted areas within 2ft. of pipelines and utilities were excavated with hand tools. Approximately nine (9) cubic yards of soil was excavated adjacent to the initial release area.

Impacted soils removed from the excavated area were transported for off-site disposal to Republic Landfill Services located in Odessa, Texas. Clean, purchased imported soil from an off-site source was utilized to backfill the excavation. Site restoration included returning disturbed areas to pre-existing elevations and contours.

June 27, 2022

Ms. Hayden Acosta

Welcome to Golden Compressor Station Release

Incident No. nAPP2210152427

Page 3 of 3

Sampling and Analysis Results

Field sampling activities were conducted on May 19, 2022. Six (6) confirmation soil samples (CS-1 through CS-6) were collected from the on-site excavated area. Locations of the soil confirmation samples are presented in Figure 3. Photographs of the release area and excavation/site restoration activities are provided in the Attachments.

All soil samples were transported to the analytical laboratory on ice following strict chain-of-custody protocol. Soil samples were analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX) using method 8021B, total petroleum hydrocarbons (TPH) using method 8015M for GRO/DRO and chloride utilizing method 300. The BTEX, total TPH and chloride results of the soil samples were compared to limits as stated in Table 1 of the New Mexico Administrative Code (NMAC) *19.15.29.12 Closure Criteria for Soils Impacted by a Release*.

The analytical results (Table 1) and associated laboratory analytical report are provided in the Attachments.

All the soil confirmation samples (CS-1 through CS-6) collected during the remediation activities were below the limits as stated in Table 1 of the NMAC *19.15.29.12 Closure Criteria for Soils Impacted by a Release*.

Conclusions and Recommendations

Based on the field data and the analytical results obtained during this site investigation, Lighthouse concludes the following:

- The condensate and glycol mixture release affected a surface area that measured approximately 20 feet by 10 feet with an approximate depth of 1.5 feet bgs.
- Approximately nine (9) cubic yards of impacted soil was excavated and transported off-site for disposal to Republic Landfill Services located in Odessa, Texas..
- Groundwater was not encountered in the excavation areas.
- Comparison of soil confirmation sample analytical results demonstrate BTEX, TPH and chloride concentrations are below clean-up standards presented in the Table 1 of the NMAC *19.15.29.12 Closure Criteria for Soils Impacted by a Release*.

Based on the laboratory analytical results, the affected soils associated with the release were successfully removed from the excavated area. Lighthouse recommends that no further action is necessary at the above-referenced Site and respectfully requests from the OCD closure of the Incident No. nAPP2210152427 on behalf of SCM.

June 27, 2022

Ms. Hayden Acosta

Welcome to Golden Compressor Station

Release Incident No. nAPP2210152427

Page 4 of 3

Lighthouse greatly appreciates the opportunity to work with SCM on this important project and we look forward to working with you in the future. If you have any questions or need additional information, please do not hesitate to give me a call at (713) 987-0400.

Sincerely,

A handwritten signature in black ink, appearing to read 'S. Hudgens', with a stylized flourish at the end.

Simon Hudgens
Director

Attachments

- **Figures**
- **Photographs**
- **Tables**
- **Site Characterization**
- **Laboratory Analytical Reports**

Figures

Figure 1 - Site Location Map

Salt Creek Midstream, LLC
Welcome to Golden Compressor Station
Release Site
Eddy County, New Mexico
Incident ID No. nAPP2210152427
Lighthouse Project No. 2202-5618

○ Site



Site

Pecos River

726

285

NEW MEXICO



3 mi

Figure 2 - Topographic Map

Salt Creek Midstream, LLC
 Welcome to Golden Compressor Station
 Release Site
 Eddy County, New Mexico
 Incident ID No. nAPP2210152427
 Lighthouse Project No. 2202-5618

Legend

- Site

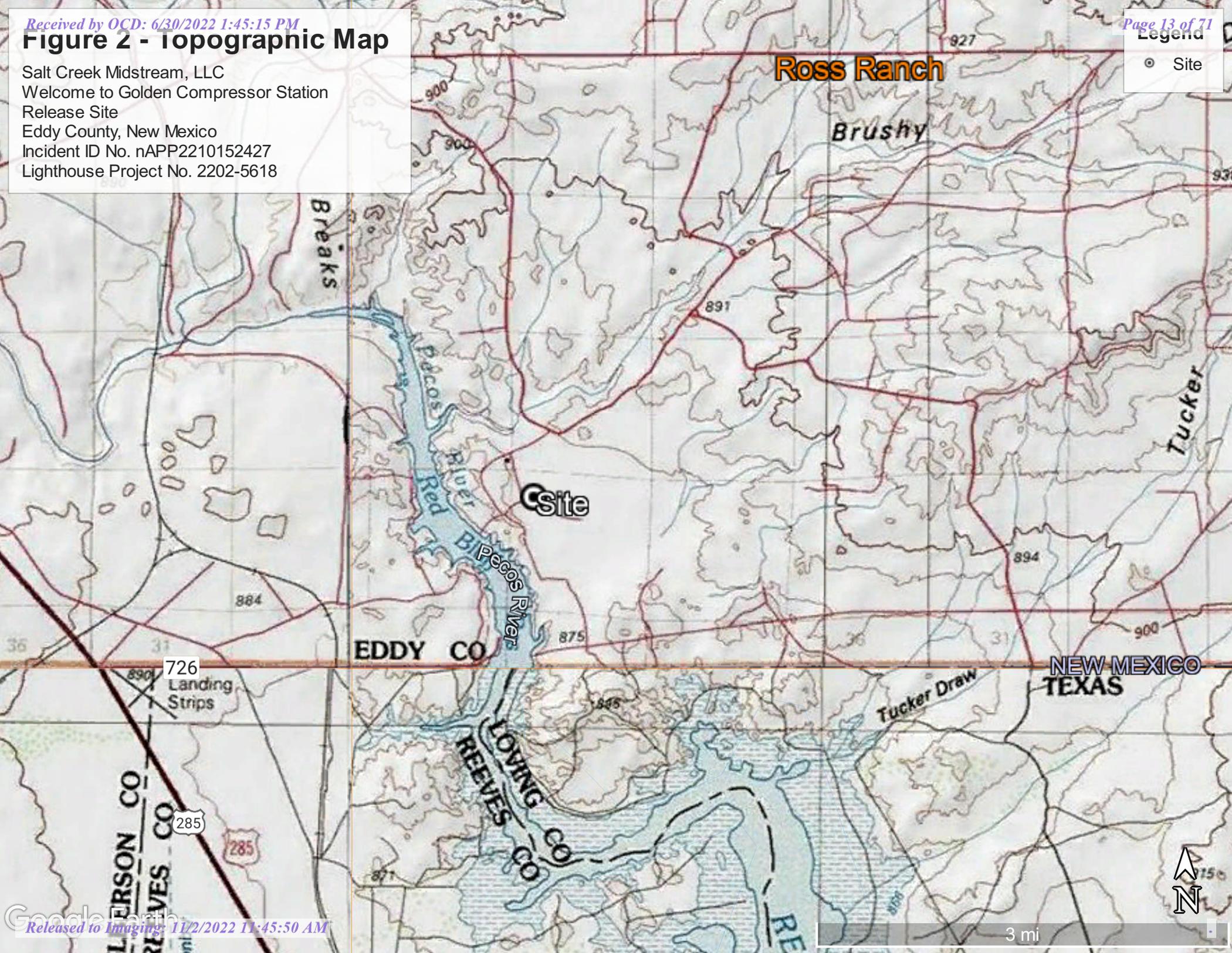
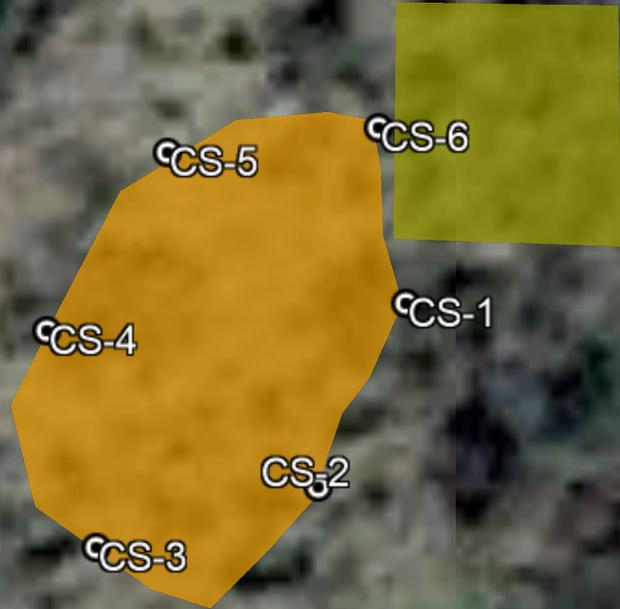


Figure 3 - Site Map

Salt Creek Midstream, LLC
Welcome to Golden Compressor Station Release Site
Eddy County, New Mexico
Incident ID No. nAPP2210152427
Lighthouse Project No. 2202-5618

Legend

- Confirmation Soil Sample Location
- Reboiler
- Release Area



30 ft

Photographs



Photograph 1: initial spill



Photograph 2:



Photograph 3: initial spill



Photograph 4: initial spill



Photograph 5: initial spill



Photograph 6: initial spill



Photograph 7: initial spill



Photograph 8: initial spill



Photograph 9: initial spill



Photograph 10: initial spill



Photograph 11: Completion Photo facing Southeast

Table



TABLE 1
 Soil Sampling Analytical Results
 Salt Creek Midstream, LLC
 Welcome to Golden Compressor Station Release
 Eddy County, New Mexico
 LHS Project ID: 2206-5618
 Incident ID No. nAPP2210152427

Released to Imaging: 11/20/2022 11:45:50 AM

Received by OCH: 6/30/2022 1:45:15 PM

Sample ID	Sample Date	Sample Depth (feet BGS)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH GRO (mg/Kg)	TPH DRO (mg/Kg)	TPH ORO (mg/Kg)	Total TPH GRO/DRO/ORO (mg/Kg)	Chloride (mg/Kg)
New Mexico Administrative Code (NMAC) Table 1 - Closure Criteria for Soils Impacted by a Release			10	NA			50	2,500			10,000	
CS-1	5/19/2022	1.5	0.262	0.286	0.0487	0.405	1.00	212	<49.9	<49.9	212	146
CS-2	5/19/2022	1.5	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<50.0	<50.0	<50.0	<50.0	92.2
CS-3	5/19/2022	1.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	241
CS-4	5/19/2022	1.5	<0.00198	0.0618	0.0104	0.123	0.196	<50.0	<50.0	<50.0	<50.0	73.5
CS-5	5/19/2022	1.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	122	<49.9	122	502
CS-6	5/19/2022	1.5	<0.00200	0.00563	<0.00200	<0.00401	<0.00401	<50.0	<50.0	64.3	64.3	484

Notes:
 BGS: below ground surface
 mg/Kg: milligrams per Kilogram
 NA: Not Applicable

Site Characterization



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	POD NUMBER (WELL NUMBER) POD-1 (BH-1)				OSE FILE NUMBER(S) C-03605				
	WELL OWNER NAME(S) Cimarex c/o Safety & Environmental Solution Inc				PHONE (OPTIONAL) 575.397.0510				
	WELL OWNER MAILING ADDRESS P.O. Box 1613				CITY Hobbs	STATE NM	ZIP 88241		
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 0	SECONDS 35.30 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84				
LONGITUDE 103 58 23.10 W									
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS Amoco Federal #1 Battery Injection Pump									
2. OPTIONAL	1/4 (1/4 ACRE)	1/4 (10 ACRE)	1/4 (40 ACRE)	1/4 (160 ACRE)	SECTION 27	TOWNSHIP 26	RANGE 29	<input type="checkbox"/> NORTH <input checked="" type="checkbox"/> SOUTH	<input checked="" type="checkbox"/> EAST <input type="checkbox"/> WEST
	SUBDIVISION NAME				LOT NUMBER	BLOCK NUMBER	UNIT/TRACT		
	HYDROGRAPHIC SURVEY					MAP NUMBER	TRACT NUMBER		
3. DRILLING INFORMATION	LICENSE NUMBER 1249	NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc				
	DRILLING STARTED 1/23/2013	DRILLING ENDED 1/23/2013	DEPTH OF COMPLETED WELL (FT) n/a		BORE HOLE DEPTH (FT) 45	DEPTH WATER FIRST ENCOUNTERED (FT) n/a			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a			
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD <input type="checkbox"/> ADDITIVES - SPECIFY:								
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:								
	DEPTH (FT)		BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)	
	FROM 0	TO 45	8.625	n/a	n/a	n/a	n/a	n/a	
4. WATER BEARING STRATA	DEPTH (FT)		THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)				YIELD (GPM)	
	FROM n/a	TO n/a	n/a	n/a				n/a	
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA n/a							TOTAL ESTIMATED WELL YIELD (GPM) n/a	
	STATE ENGINEER OFFICE 2013 FEB 26 P								

FOR OSE INTERNAL USE

WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER C-3605	POD NUMBER 1	TRN NUMBER 518588
LOCATION Monitor	26S-29E-27-324	
		PAGE 1 OF 2

5. SEAL AND PUMP	TYPE OF PUMP: <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> JET <input type="checkbox"/> NO PUMP - WELL NOT EQUIPPED <input type="checkbox"/> TURBINE <input type="checkbox"/> CYLINDER <input checked="" type="checkbox"/> OTHER - SPECIFY: n/a						
	ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT)		BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
		FROM	TO				
		n/a	n/a	n/a	n/a	n/a	n/a

6. GEOLOGIC LOG OF WELL	DEPTH (FT)		THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?	
	FROM	TO			YES	NO
	0	5	5	sand and caliche, sand light brown	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	5	10	5	Light Brown Sandy Clay/Caliche, large round rocks	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	10	15	5	Red Clay and Sand, round rock 1/2 inch	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	15	20	5	Clay, red small rock chips, embedded mica	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	20	25	5	Clay, red, embedded mica, small clay balls, 1/4 inch size	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	25	30	5	Clay, red, embedded mica, small clay balls, 1/4 inch size	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	30	35	5	Clay, reddish brown, embedded mica, 1/4 inch angular rocks	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	35	40	5	Clay, reddish brown, 1/4 inch angular rocks	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	40	45	5	Clay, reddish brown,	<input type="checkbox"/>	<input checked="" type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL.

7. TEST & ADDITIONAL INFO	WELL TEST	METHOD: <input type="checkbox"/> BAILER <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input checked="" type="checkbox"/> OTHER - SPECIFY: n/a
	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.	

ADDITIONAL STATEMENTS OR EXPLANATIONS:
see attached SESI Log BH-1

STATE ENGINEER
REGISTERED
1913 FEB 26

8. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING.	
		<u>2/26/2013</u>
	SIGNATURE OF DRILLER	DATE

FOR USE INTERNAL USE		WELL RECORD & LOG (Version 6/9/08)	
FILE NUMBER	C-3605	POD NUMBER	1
LOCATION	Monitor	TRN NUMBER	518588
		26S.29E.27.324	PAGE 2 OF 2



Safety & Environmental Solutions, Inc.

LOG OF BORING BH-1

(Page 1 of 1)

Cimarex Energy Company
Amoco Federal #1 Battery Injection Pump
SE/4 SW/4, Sec. 27, T26S, R29E
Eddy County, New Mexico
N32.009812°, W103.973089°

Date, Time Started : 01/23/13, 1030
Date, Time Complete : 01/23/13, 1530
Hole Diameter : 8 1/4 in.
Drilling Method : Hollow Stem Auger
Drilling Equipment : Mobile Drilling B-58

Drilled By : Atkins Engineering Assoc.
Sampling Method : 2 ft. split spoon
Logged By : Jerry Sosa, SESI
Company Rep. :

Depth in Feet	Sample Method	Recovery (in.)	USCS	GRAPHIC	Sample Type
					DESCRIPTION
0					SS Split Spoon (18" or 24") CB Core Barrel (2.5' or 5') CT Auger Cuttings NR No recovery
0-5	SS	21	SP/CA		1-5 ft. SAND and CALICHE, sand light brown, some staining, no H/C odor
5-10	SS	8	CL/CA		5-10 ft. Light brown, SANDY CLAY/CALICHE, large round rocks, no H/C staining or odor
10-15	SS	21	CL/SP		10-15 ft. Red CLAY and SAND, round rock 1/2 in., light staining, no-odor
15-20	SS	18	CL		15-20 ft. CLAY, red, small rock chips, embedded mica (gypsum?), no H/C odor
20-25	SS	19	CL		20-25 ft. CLAY, red, embedded mica (gypsum?), small clay balls, 1/4 in. sized, no H/C odor
25-30	SS	18	CL		25-30 ft. CLAY, red, embedded mica (gypsum?), small clay balls, 1/4 in. sized, no H/C odor
30-35	SS	21	CL		30-35 ft. CLAY, reddish-brown, embedded mica (gypsum?), small angular rocks, 1/4 in. size, no H/C odor
35-40	SS	19	CL		35-40 ft. CLAY, reddish-brown, small angular rocks, 1/4 in. size, no H/C odor
40-45	SS	22	CL		40-45 ft. CLAY, reddish-brown, no H/C odor

Z:\Company Files\Cimarex Energy\2012\CH-12-010 Amoco Federal 1 Battery Inj Pump\BH-1 Atkins.log

Notes:
Plugged back to 10 ft. with cuttings then to surface with bentonite, hydrated.

STATE ENGINEER OFFICE
FORWARDED
1 JAN 26 2013
P 2:55

C-3605/518588



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

2/26/2013

Office of the State Engineer
 District II
 1900 W 2nd St. Roswell, NM 88201

RE: OSE File Number C-03605 drilling and plugging activities

To whom it may concern:

Atkins Engineering Associates, Inc. (AEA) has completed drilling and plugging activities at the Cimarex Amoco Federal Battery #1, OSE file Number C-03605

Enclosed please find a representative plugging record, and well records for each POD.

If you have any questions, please contact me at (575)624-2420 or chris@atkinseng.com

Sincerely,

A handwritten signature in black ink, appearing to read "Chris Cortez", written over a horizontal line.

Chris Cortez

Enclosures: WD-11 Plugging plan (3), POD-1 WR-20 (3), POD-2 WR-20 (3).

STATE ENGINEER OFFICE
 ROSWELL, NM
 2-26-13 2:59



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	POD NUMBER (WELL NUMBER) POD-2 (BH-2)				OSE FILE NUMBER(S) C-03605									
	WELL OWNER NAME(S) Cimarex c/o Safety & Environmental Solution Inc				PHONE (OPTIONAL) 575.397.0510									
	WELL OWNER MAILING ADDRESS P.O. Box 1613				CITY Hobbs		STATE NM		ZIP 88241					
	WELL LOCATION (FROM GPS)		DEGREES 32	MINUTES 0	SECONDS 35.40 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84								
	LONGITUDE 103		58	24.10 W										
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS Amoco Federal #1 Battery Injection Pump														
2. OPTIONAL	(1/4 ACRE) 1/4		(10 ACRE) 1/4		(40 ACRE) SE 1/4		(160 ACRE) SW 1/4		SECTION 27	TOWNSHIP 26	RANGE 29			
	SUBDIVISION NAME				LOT NUMBER		BLOCK NUMBER		UNIT/TRACT					
	HYDROGRAPHIC SURVEY				MAP NUMBER		TRACT NUMBER							
3. DRILLING INFORMATION	LICENSE NUMBER 1249		NAME OF LICENSED DRILLER Jackie D. Atkins				NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc							
	DRILLING STARTED 1/24/2013		DRILLING ENDED 1/28/2013		DEPTH OF COMPLETED WELL (FT) n/a		BORE HOLE DEPTH (FT) 65		DEPTH WATER FIRST ENCOUNTERED (FT) n/a					
	COMPLETED WELL IS:				STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a									
	<input type="checkbox"/> ARTESIAN				<input type="checkbox"/> DRY HOLE		<input type="checkbox"/> SHALLOW (UNCONFINED)							
	DRILLING FLUID:				ADDITIVES - SPECIFY:									
	<input type="checkbox"/> AIR				<input type="checkbox"/> MUD		<input type="checkbox"/> OTHER - SPECIFY:							
	DRILLING METHOD:				CABLE TOOL									
	<input checked="" type="checkbox"/> ROTARY				<input type="checkbox"/> HAMMER		<input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (FT)		BORE HOLE DIA (IN)		CASING MATERIAL		CONNECTION TYPE (CASING)		INSIDE DIA CASING (IN)		CASING WALL THICKNESS (IN)		SLOT SIZE (IN)	
	FROM	TO												
0	65	8.625		n/a		n/a		n/a		n/a		n/a		
4. WATER BEARING STRATA	DEPTH (FT)		THICKNESS (FT)		FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)						YIELD (GPM)			
	FROM	TO									n/a		n/a	
	n/a	n/a	n/a								n/a			
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA						TOTAL ESTIMATED WELL YIELD (GPM)							
	n/a						n/a							

STATE ENGINEER OFFICE
RECEIVED
FEB 25 2013

FOR OSE INTERNAL USE

WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	C-3605	POD NUMBER	2	TRN NUMBER	518588
LOCATION	Monitor	26S.29E.27.324			PAGE 1 OF 2

5. SEAL AND PUMP	TYPE OF PUMP: <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> JET <input type="checkbox"/> NO PUMP - WELL NOT EQUIPPED <input type="checkbox"/> TURBINE <input type="checkbox"/> CYLINDER <input checked="" type="checkbox"/> OTHER - SPECIFY: n/a						
	ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT)		BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
		FROM	TO				
	n/a	n/a	n/a	n/a	n/a	n/a	

6. GEOLOGIC LOG OF WELL	DEPTH (FT)		THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?		
	FROM	TO					
		0	5	5	Sand, brown with small round rock	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
		5	10	5	Sandy Clay, brown, water saturated	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
		10	15	5	Sandy Clay, light gray small round rocks, water saturated	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
		15	20	5	Clay, red small rock chips, embedded mica, dry at 20	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
		20	25	5	Clay, red, embedded mica, small angular rock chips	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
		25	30	5	Clay, red brown, embedded mica, small angular rock chips	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
		30	35	5	Clay, red, embedded mica, small rock chips	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
		35	40	5	Sandy Clay, reddish brown, no rocks	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
		40	45	5	Sandy Clay, light gray,	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
		45	50	5	Clay, red, embedded mica, small angular rock chips	<input type="checkbox"/> YES	<input type="checkbox"/> NO
		50	55	5	Clay, red, embedded mica, small rock chips	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
		55	60	5	Clay, red, embedded mica, small rock chips	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
		60	65	5	Not logged	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
					<input type="checkbox"/> YES	<input type="checkbox"/> NO	
					<input type="checkbox"/> YES	<input type="checkbox"/> NO	
					<input type="checkbox"/> YES	<input type="checkbox"/> NO	
					<input type="checkbox"/> YES	<input type="checkbox"/> NO	

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL

7. TEST & ADDITIONAL INFO	WELL TEST	METHOD: <input type="checkbox"/> BAILER <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input checked="" type="checkbox"/> OTHER - SPECIFY: n/a TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	ADDITIONAL STATEMENTS OR EXPLANATIONS: see attached SESI Log BH-2					
	1 1913 FEB 26 STATE ENGINEER REGISTRATION OFFICE					

8. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:	
	SIGNATURE OF DRILLER	2/26/2013 DATE

FOR OSE INTERNAL USE		WELL RECORD & LOG (Version 6/9/08)	
FILE NUMBER	C-3605	POD NUMBER	2
LOCATION	Monitor	TRN NUMBER	518588
	265.29E.27.324		PAGE 2 OF 2



Safety & Environmental Solutions, Inc.

LOG OF BORING BH-2

(Page 1 of 1)

Climarex Energy Company
 Amoco Federal #1 Battery Injection Pump
 SE/4 SW/4, Sec. 27, T26S, R29E
 Eddy County, New Mexico
 N32.009831°, W103.973363°

Date, Time Started : 01/24/13, 1030
 Date, Time Complete : 01/28/13, 1100
 Hole Diameter : 8 1/4 in.
 Drilling Method : Hollow Stem Auger
 Drilling Equipment : Mobile Drilling B-58

Drilled By : Atkins Engineering Assoc.
 Sampling Method : 2 ft. split spoon
 Logged By : Jerry Sosa, SESI
 Company Rep. :

Depth in Feet	Sample Method	Recovery (In.)	USCS	GRAPHIC	Sample Type
					DESCRIPTION
0			SP		1-5 ft. SAND, brown with small round rock, H/C staining and heavy odor
5	SS	13	CL		5-10 ft. SANDY CLAY, brown, H/C staining and odor, water saturated
10	SS	19	CL		10-15 ft. SANDY CLAY, light gray, small round rocks recovered, historical H/C staining, water saturated
15	SS	18	CL		15-20 ft. CLAY, red, small angular rock chips, embedded mica (gypsum?), slight H/C odor, soil dry at 20 ft.
20	SS	20	CL		20-25 ft. CLAY, red, mica (gypsum?) embedded, small angular rock chips, no H/C odor
25		8	CL		25-30 ft. CLAY, red-brown, embedded mica (gypsum?), small angular rock chips, light H/C staining
30	SS	20	CL		30-35 ft. CLAY, red, embedded mica (gypsum?), small rock chips, no H/C odor
35	SS	18	CL		35-40 ft. SANDY CLAY, reddish-brown, no rock, no H/C staining or odor
40	SS	19	CL		40-45 ft. SANDY CLAY, light gray, no H/C odor
45	SS	21	CL		45-50 ft. CLAY, red, embedded mica (gypsum?), small angular rock chips
50	SS	3	CL		50-55 ft. CLAY, red, embedded mica (gypsum), small rock chips, no H/C odor
55	SS	8	CL		55-60 ft. CLAY, red, embedded mica (gypsum?), small rock chips, no H/C odor
60	SS	5.5	CL		55-80 ft. CLAY, red, embedded mica (gypsum?), small rock chips, no H/C odor
65					

STATE ENGINEER OFFICE
 FEB 26 2013 P 2:56

Notes:
 H/C - Hydrocarbon

01/24/13: Offsite -1700.
 01/28/13: Onsite -0900. Installed augers and drilled to 65 ft. for sampling. Noted 10 ft. of water in borehole from above saturation. No sample due to water cross-contamination. Plugged back to 10 ft. with cuttings then to surface with 8 bags bentonite, hydrated.

C-3605/518588



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

2/26/2013

Office of the State Engineer
 District II
 1900 W 2nd St. Roswell, NM 88201

RE: OSE File Number C-03605 drilling and plugging activities

To whom it may concern:

Atkins Engineering Associates, Inc. (AEA) has completed drilling and plugging activities at the Cimarex Amoco Federal Battery #1, OSE file Number C-03605

Enclosed please find a representative plugging record, and well records for each POD.

If you have any questions, please contact me at (575)624-2420 or chris@atkinseng.com

Sincerely,

A handwritten signature in black ink, appearing to read "Chris Cortez", written over a light blue horizontal line.

Chris Cortez

Enclosures: WD-11 Plugging plan (3), POD-1 WR-20 (3), POD-2 WR-20 (3).

STATE ENGINEER OFFICE
 ROSWELL, NM
 1900 FEB 26 10 25 AM

Karst Topography Map

New Mexico
Bureau of Land Management (BLM)
Welcome to Golden Compressor Station
Release Site
Incident ID No. nAPP2210152427

Legend

 Welcome to Golden Compressor Station


32.018117, -103.977367

Pecos River

TEXAS

726

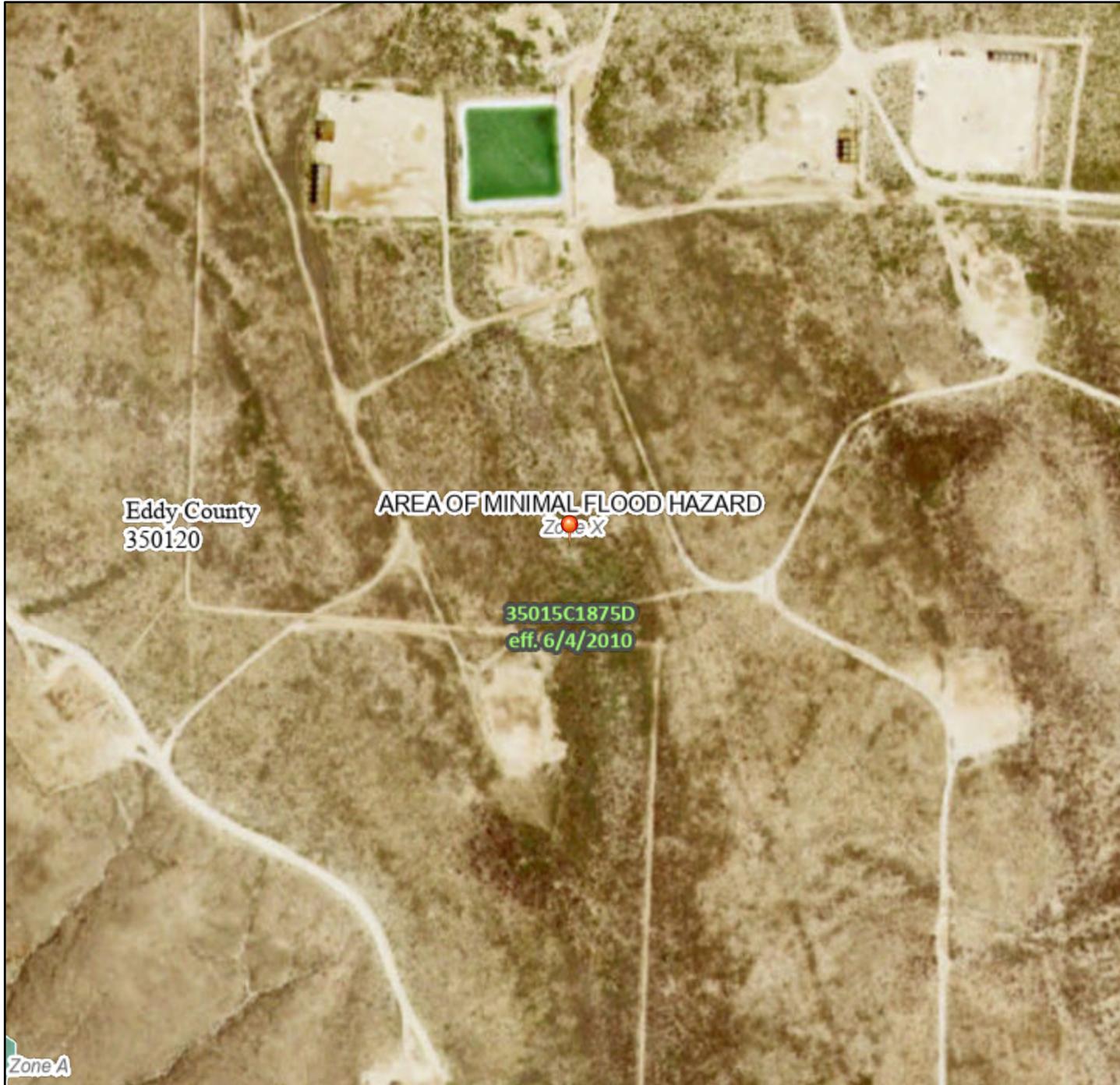


1 mi

National Flood Hazard Layer FIRMette



103°58'56"W 32°1'20"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

- | | | |
|------------------------------------|--|--|
| SPECIAL FLOOD HAZARD AREAS | | Without Base Flood Elevation (BFE)
<i>Zone A, V, A99</i> |
| | | With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i> |
| | | Regulatory Floodway |
| OTHER AREAS OF FLOOD HAZARD | | 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i> |
| | | Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i> |
| | | Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i> |
| | | Area with Flood Risk due to Levee <i>Zone D</i> |
| OTHER AREAS | | NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i> |
| | | Effective LOMRs |
| GENERAL STRUCTURES | | Area of Undetermined Flood Hazard <i>Zone D</i> |
| | | Channel, Culvert, or Storm Sewer |
| | | Levee, Dike, or Floodwall |
| OTHER FEATURES | | 20.2 Cross Sections with 1% Annual Chance |
| | | 17.5 Water Surface Elevation |
| | | Coastal Transect |
| | | Base Flood Elevation Line (BFE) |
| | | Limit of Study |
| | | Jurisdiction Boundary |
| MAP PANELS | | Digital Data Available |
| | | No Digital Data Available |
| | | Unmapped |
| | | The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location. |



0 250 500 1,500 2,000 Feet 1:6,000 103°58'19"W 32°0'49"N

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/27/2022 at 2:27 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Oil or Water Spill TO SOIL Volume Spreadsheet

INPUT FIELDS
OUTPUT
RESULT

Location:	Welcome to Golden CS
GPS Coordinates:	32.018117, -103.977367
Spill Date:	4/2/2022
Spill Time:	12:20

Length of Spill=	-	feet
Width of Spill=	-	feet
Saturation (or depth) of Spill=	-	inches

OR

Area=	350.00	ft ²
Saturation (or depth) of Spill=	8.00	inches

OR

Soil Volume=	0	yd ³
--------------	---	-----------------

Use only one method

Oil Cut=	85.00	% Oil
Porosity Factor=	0.03	

Soil Volume=	8.64	yd ³
Total Oil in Soil=	1.06	barrels
Total Produced Water in Soil=	0.19	barrels
Total Gallon of Oil	44.51	gallons

Types of Soil	Porosity Factor
Gravel	0.25
Sand	0.20
Clay/silt/sand Mix	0.15
Clay	0.05
Caliche	0.03
Unknown	0.25

Laboratory Analytical Reports



Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-15074-1
Laboratory Sample Delivery Group: 32.018540, -103.976880
Client Project/Site: Welcome to Golden CS BTEX (2202-5653)

For:
Lighthouse Environmental Services, Inc
4218 Pasadena Blvd
Pasadena, Texas 77503

Attn: Simon Hudgens

Holly Taylor

Authorized for release by:
5/31/2022 10:11:43 AM

Holly Taylor, Project Manager
(806)794-1296
Holly.Taylor@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client: Lighthouse Environmental Services, Inc
Project/Site: Welcome to Golden CS BTEX (2202-5653)

Laboratory Job ID: 880-15074-1
SDG: 32.018540, -103.976880

Table of Contents

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Surrogate Summary	10
QC Sample Results	12
QC Association Summary	21
Lab Chronicle	25
Certification Summary	27
Method Summary	28
Sample Summary	29
Chain of Custody	30
Receipt Checklists	31



Definitions/Glossary

Client: Lighthouse Environmental Services, Inc
 Project/Site: Welcome to Golden CS BTEX (2202-5653)

Job ID: 880-15074-1
 SDG: 32.018540, -103.976880

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Lighthouse Environmental Services, Inc
Project/Site: Welcome to Golden CS BTEX (2202-5653)

Job ID: 880-15074-1
SDG: 32.018540, -103.976880

Job ID: 880-15074-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-15074-1

Comments

No additional comments.

Receipt

The samples were received on 5/23/2022 4:49 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.6° C.

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-26188 and analytical batch 880-26122 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: CS-1 (880-15074-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCS 880-26188/1-A) and (LCSD 880-26188/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-26122 recovered above the upper control limit for Toluene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: CS-2 (880-15074-2), CS-3 (880-15074-3), CS-4 (880-15074-4), CS-5 (880-15074-5), CS-6 (880-15074-6) and (CCV 880-26122/82).

Method 8021B: CCV biased low for benzene, however an acceptable CCV was analyzed within the 12 hour window, therefore data was qualified and reported.
(CCV 880-26220/51)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-26124/2-A). Evidence of matrix interferences is not obvious.

Method 8015B NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-26124 and analytical batch 880-26134 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28). The MS/MSD RPD passed within limits and therefore shows recovery for the batch.

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-26176/2-A) and (LCSD 880-26176/3-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Lighthouse Environmental Services, Inc
 Project/Site: Welcome to Golden CS BTEX (2202-5653)

Job ID: 880-15074-1
 SDG: 32.018540, -103.976880

Client Sample ID: CS-1

Lab Sample ID: 880-15074-1

Date Collected: 05/19/22 09:17

Matrix: Solid

Date Received: 05/23/22 16:49

Sample Depth: 1.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.262		0.00200	mg/Kg		05/24/22 13:56	05/25/22 08:08	1
Toluene	0.286		0.00199	mg/Kg		05/26/22 11:13	05/26/22 22:20	1
Ethylbenzene	0.0487		0.00199	mg/Kg		05/26/22 11:13	05/26/22 22:20	1
m,p-Xylenes	0.339		0.00398	mg/Kg		05/26/22 11:13	05/26/22 22:20	1
o-Xylene	0.0656		0.00199	mg/Kg		05/26/22 11:13	05/26/22 22:20	1
Xylenes, Total	0.405		0.00398	mg/Kg		05/26/22 11:13	05/26/22 22:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	172	S1+	70 - 130	05/24/22 13:56	05/25/22 08:08	1
1,4-Difluorobenzene (Surr)	96		70 - 130	05/24/22 13:56	05/25/22 08:08	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	1.00		0.00398	mg/Kg			05/25/22 10:22	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	212		49.9	mg/Kg			05/25/22 09:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	212		49.9	mg/Kg		05/24/22 14:00	05/24/22 21:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/24/22 14:00	05/24/22 21:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/24/22 14:00	05/24/22 21:02	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
1-Chlorooctane (Surr)	91		70 - 130	05/24/22 14:00	05/24/22 21:02	1		
o-Terphenyl (Surr)	95		70 - 130	05/24/22 14:00	05/24/22 21:02	1		

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	146		4.96	mg/Kg			05/27/22 14:28	1

Client Sample ID: CS-2

Lab Sample ID: 880-15074-2

Date Collected: 05/19/22 09:13

Matrix: Solid

Date Received: 05/23/22 16:49

Sample Depth: 1.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		05/25/22 13:36	05/26/22 01:20	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/25/22 13:36	05/26/22 01:20	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/25/22 13:36	05/26/22 01:20	1
m,p-Xylenes	<0.00403	U	0.00403	mg/Kg		05/25/22 13:36	05/26/22 01:20	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/25/22 13:36	05/26/22 01:20	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		05/25/22 13:36	05/26/22 01:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	05/25/22 13:36	05/26/22 01:20	1

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Client Sample Results

Client: Lighthouse Environmental Services, Inc
 Project/Site: Welcome to Golden CS BTEX (2202-5653)

Job ID: 880-15074-1
 SDG: 32.018540, -103.976880

Client Sample ID: CS-2

Date Collected: 05/19/22 09:13

Date Received: 05/23/22 16:49

Sample Depth: 1.5'

Lab Sample ID: 880-15074-2

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130	05/25/22 13:36	05/26/22 01:20	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			05/25/22 10:22	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/25/22 09:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/24/22 14:00	05/24/22 21:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/24/22 14:00	05/24/22 21:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/24/22 14:00	05/24/22 21:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130	05/24/22 14:00	05/24/22 21:23	1
o-Terphenyl (Surr)	98		70 - 130	05/24/22 14:00	05/24/22 21:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	92.2		5.00	mg/Kg			05/27/22 14:51	1

Client Sample ID: CS-3

Date Collected: 05/19/22 08:20

Date Received: 05/23/22 16:49

Sample Depth: 1.5'

Lab Sample ID: 880-15074-3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/25/22 13:36	05/26/22 01:40	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/25/22 13:36	05/26/22 01:40	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/25/22 13:36	05/26/22 01:40	1
m,p-Xylenes	<0.00398	U	0.00398	mg/Kg		05/25/22 13:36	05/26/22 01:40	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/25/22 13:36	05/26/22 01:40	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/25/22 13:36	05/26/22 01:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	05/25/22 13:36	05/26/22 01:40	1
1,4-Difluorobenzene (Surr)	92		70 - 130	05/25/22 13:36	05/26/22 01:40	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/25/22 10:22	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/25/22 09:17	1

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Client Sample Results

Client: Lighthouse Environmental Services, Inc
 Project/Site: Welcome to Golden CS BTEX (2202-5653)

Job ID: 880-15074-1
 SDG: 32.018540, -103.976880

Client Sample ID: CS-3

Lab Sample ID: 880-15074-3

Date Collected: 05/19/22 08:20

Matrix: Solid

Date Received: 05/23/22 16:49

Sample Depth: 1.5'

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		05/24/22 13:00	05/24/22 18:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		05/24/22 13:00	05/24/22 18:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/24/22 13:00	05/24/22 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	125		70 - 130	05/24/22 13:00	05/24/22 18:11	1
o-Terphenyl (Surr)	115		70 - 130	05/24/22 13:00	05/24/22 18:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	241		4.99	mg/Kg			05/27/22 14:59	1

Client Sample ID: CS-4

Lab Sample ID: 880-15074-4

Date Collected: 05/19/22 09:23

Matrix: Solid

Date Received: 05/23/22 16:49

Sample Depth: 1.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		05/25/22 13:36	05/26/22 02:01	1
Toluene	0.0618		0.00198	mg/Kg		05/25/22 13:36	05/26/22 02:01	1
Ethylbenzene	0.0104		0.00198	mg/Kg		05/25/22 13:36	05/26/22 02:01	1
m,p-Xylenes	0.0982		0.00397	mg/Kg		05/25/22 13:36	05/26/22 02:01	1
o-Xylene	0.0252		0.00198	mg/Kg		05/25/22 13:36	05/26/22 02:01	1
Xylenes, Total	0.123		0.00397	mg/Kg		05/25/22 13:36	05/26/22 02:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	05/25/22 13:36	05/26/22 02:01	1
1,4-Difluorobenzene (Surr)	91		70 - 130	05/25/22 13:36	05/26/22 02:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.196		0.00397	mg/Kg			05/25/22 10:22	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/25/22 09:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		05/24/22 13:00	05/24/22 18:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		05/24/22 13:00	05/24/22 18:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/24/22 13:00	05/24/22 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	115		70 - 130	05/24/22 13:00	05/24/22 18:32	1
o-Terphenyl (Surr)	104		70 - 130	05/24/22 13:00	05/24/22 18:32	1

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Client Sample Results

Client: Lighthouse Environmental Services, Inc
 Project/Site: Welcome to Golden CS BTEX (2202-5653)

Job ID: 880-15074-1
 SDG: 32.018540, -103.976880

Client Sample ID: CS-4

Date Collected: 05/19/22 09:23

Date Received: 05/23/22 16:49

Sample Depth: 1.5'

Lab Sample ID: 880-15074-4

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.5		5.05	mg/Kg			05/27/22 15:07	1

Client Sample ID: CS-5

Date Collected: 05/19/22 09:26

Date Received: 05/23/22 16:49

Sample Depth: 1.5'

Lab Sample ID: 880-15074-5

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/25/22 13:36	05/26/22 02:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/25/22 13:36	05/26/22 02:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/25/22 13:36	05/26/22 02:21	1
m,p-Xylenes	<0.00399	U	0.00399	mg/Kg		05/25/22 13:36	05/26/22 02:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/25/22 13:36	05/26/22 02:21	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/25/22 13:36	05/26/22 02:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	05/25/22 13:36	05/26/22 02:21	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/25/22 13:36	05/26/22 02:21	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/25/22 10:22	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	122		49.9	mg/Kg			05/25/22 09:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		05/24/22 08:22	05/24/22 18:53	1
Diesel Range Organics (Over C10-C28)	122	*1	49.9	mg/Kg		05/24/22 08:22	05/24/22 18:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/24/22 08:22	05/24/22 18:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130	05/24/22 08:22	05/24/22 18:53	1
o-Terphenyl (Surr)	96		70 - 130	05/24/22 08:22	05/24/22 18:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	502		4.97	mg/Kg			05/27/22 15:15	1

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Client Sample Results

Client: Lighthouse Environmental Services, Inc
 Project/Site: Welcome to Golden CS BTEX (2202-5653)

Job ID: 880-15074-1
 SDG: 32.018540, -103.976880

Client Sample ID: CS-6

Lab Sample ID: 880-15074-6

Date Collected: 05/19/22 09:30

Matrix: Solid

Date Received: 05/23/22 16:49

Sample Depth: 1.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/25/22 13:36	05/26/22 02:42	1
Toluene	0.00563		0.00200	mg/Kg		05/25/22 13:36	05/26/22 02:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/25/22 13:36	05/26/22 02:42	1
m,p-Xylenes	<0.00401	U	0.00401	mg/Kg		05/25/22 13:36	05/26/22 02:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/25/22 13:36	05/26/22 02:42	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/25/22 13:36	05/26/22 02:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	05/25/22 13:36	05/26/22 02:42	1
1,4-Difluorobenzene (Surr)	91		70 - 130	05/25/22 13:36	05/26/22 02:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00563		0.00401	mg/Kg			05/25/22 10:22	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	64.3		50.0	mg/Kg			05/25/22 09:17	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		05/24/22 08:22	05/24/22 19:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		05/24/22 08:22	05/24/22 19:14	1
Oil Range Organics (Over C28-C36)	64.3		50.0	mg/Kg		05/24/22 08:22	05/24/22 19:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112		70 - 130	05/24/22 08:22	05/24/22 19:14	1
o-Terphenyl (Surr)	102		70 - 130	05/24/22 08:22	05/24/22 19:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	484		4.98	mg/Kg			05/27/22 15:39	1

Surrogate Summary

Client: Lighthouse Environmental Services, Inc
 Project/Site: Welcome to Golden CS BTEX (2202-5653)

Job ID: 880-15074-1
 SDG: 32.018540, -103.976880

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-15074-1	CS-1	172 S1+	96
880-15074-2	CS-2	104	98
880-15074-3	CS-3	96	92
880-15074-4	CS-4	99	91
880-15074-5	CS-5	98	95
880-15074-6	CS-6	95	91
880-15094-A-27-C MS	Matrix Spike	125	89
880-15094-A-27-D MSD	Matrix Spike Duplicate	128	90
880-15143-A-11-F MS	Matrix Spike	90	105
880-15143-A-11-G MSD	Matrix Spike Duplicate	90	106
880-15149-A-25-C MS	Matrix Spike	105	100
880-15149-A-25-D MSD	Matrix Spike Duplicate	101	98
LCS 880-26188/1-A	Lab Control Sample	138 S1+	93
LCS 880-26277/1-A	Lab Control Sample	101	94
LCS 880-26347/1-A	Lab Control Sample	92	105
LCSD 880-26188/2-A	Lab Control Sample Dup	137 S1+	98
LCSD 880-26277/2-A	Lab Control Sample Dup	100	99
LCSD 880-26347/2-A	Lab Control Sample Dup	91	106
MB 880-26121/5-A	Method Blank	95	88
MB 880-26178/5-A	Method Blank	97	96
MB 880-26188/5-A	Method Blank	100	86
MB 880-26277/5-A	Method Blank	100	93
MB 880-26347/5-A	Method Blank	85	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-15067-A-21-C MS	Matrix Spike	88	75
880-15067-A-21-D MSD	Matrix Spike Duplicate	100	85
880-15074-1	CS-1	91	95
880-15074-2	CS-2	96	98
880-15074-3	CS-3	125	115
880-15074-4	CS-4	115	104
880-15074-5	CS-5	107	96
880-15074-6	CS-6	112	102
880-15087-A-1-B MS	Matrix Spike	83	74
880-15087-A-1-C MSD	Matrix Spike Duplicate	83	74
LCS 880-26124/2-A	Lab Control Sample	147 S1+	127
LCS 880-26176/2-A	Lab Control Sample	476 S1+	470 S1+
LCSD 880-26124/3-A	Lab Control Sample Dup	115	102
LCSD 880-26176/3-A	Lab Control Sample Dup	443 S1+	446 S1+
MB 880-26124/1-A	Method Blank	122	119
MB 880-26176/1-A	Method Blank	102	110

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Surrogate Summary

Client: Lighthouse Environmental Services, Inc
Project/Site: Welcome to Golden CS BTEX (2202-5653)

Job ID: 880-15074-1
SDG: 32.018540, -103.976880

Surrogate Legend

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

QC Sample Results

Client: Lighthouse Environmental Services, Inc
 Project/Site: Welcome to Golden CS BTEX (2202-5653)

Job ID: 880-15074-1
 SDG: 32.018540, -103.976880

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-26121/5-A

Matrix: Solid

Analysis Batch: 26122

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26121

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/24/22 08:11	05/24/22 14:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/22 08:11	05/24/22 14:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/22 08:11	05/24/22 14:27	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		05/24/22 08:11	05/24/22 14:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/22 08:11	05/24/22 14:27	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/24/22 08:11	05/24/22 14:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	05/24/22 08:11	05/24/22 14:27	1
1,4-Difluorobenzene (Surr)	88		70 - 130	05/24/22 08:11	05/24/22 14:27	1

Lab Sample ID: MB 880-26178/5-A

Matrix: Solid

Analysis Batch: 26220

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26178

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/24/22 12:19	05/25/22 12:54	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/22 12:19	05/25/22 12:54	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/22 12:19	05/25/22 12:54	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		05/24/22 12:19	05/25/22 12:54	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/22 12:19	05/25/22 12:54	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/24/22 12:19	05/25/22 12:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	05/24/22 12:19	05/25/22 12:54	1
1,4-Difluorobenzene (Surr)	96		70 - 130	05/24/22 12:19	05/25/22 12:54	1

Lab Sample ID: MB 880-26188/5-A

Matrix: Solid

Analysis Batch: 26122

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26188

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/24/22 13:56	05/25/22 03:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/24/22 13:56	05/25/22 03:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/24/22 13:56	05/25/22 03:44	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		05/24/22 13:56	05/25/22 03:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/24/22 13:56	05/25/22 03:44	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/24/22 13:56	05/25/22 03:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	05/24/22 13:56	05/25/22 03:44	1
1,4-Difluorobenzene (Surr)	86		70 - 130	05/24/22 13:56	05/25/22 03:44	1

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QC Sample Results

Client: Lighthouse Environmental Services, Inc
 Project/Site: Welcome to Golden CS BTEX (2202-5653)

Job ID: 880-15074-1
 SDG: 32.018540, -103.976880

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-26188/1-A

Matrix: Solid

Analysis Batch: 26122

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26188

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1047		mg/Kg		105	70 - 130
Toluene	0.100	0.1076		mg/Kg		108	70 - 130
Ethylbenzene	0.100	0.1093		mg/Kg		109	70 - 130
m,p-Xylenes	0.200	0.2191		mg/Kg		110	70 - 130
o-Xylene	0.100	0.1105		mg/Kg		111	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: LCSD 880-26188/2-A

Matrix: Solid

Analysis Batch: 26122

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 26188

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1054		mg/Kg		105	70 - 130	1	35
Toluene	0.100	0.1081		mg/Kg		108	70 - 130	1	35
Ethylbenzene	0.100	0.1070		mg/Kg		107	70 - 130	2	35
m,p-Xylenes	0.200	0.2127		mg/Kg		106	70 - 130	3	35
o-Xylene	0.100	0.1057		mg/Kg		106	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-15094-A-27-C MS

Matrix: Solid

Analysis Batch: 26122

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 26188

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.100	0.07091		mg/Kg		71	70 - 130
Toluene	<0.00202	U F1	0.100	0.06214	F1	mg/Kg		62	70 - 130
Ethylbenzene	<0.00202	U F1	0.100	0.05759	F1	mg/Kg		57	70 - 130
m,p-Xylenes	<0.00403	U F1	0.200	0.1384	F1	mg/Kg		69	70 - 130
o-Xylene	<0.00202	U	0.100	0.07901		mg/Kg		79	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 880-15094-A-27-D MSD

Matrix: Solid

Analysis Batch: 26122

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 26188

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0996	0.07400		mg/Kg		74	70 - 130	4	35
Toluene	<0.00202	U F1	0.0996	0.06182	F1	mg/Kg		62	70 - 130	1	35
Ethylbenzene	<0.00202	U F1	0.0996	0.05758	F1	mg/Kg		58	70 - 130	0	35

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QC Sample Results

Client: Lighthouse Environmental Services, Inc
Project/Site: Welcome to Golden CS BTEX (2202-5653)Job ID: 880-15074-1
SDG: 32.018540, -103.976880

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-15094-A-27-D MSD

Matrix: Solid

Analysis Batch: 26122

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 26188

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes	<0.00403	U F1	0.199	0.1408		mg/Kg		71	70 - 130	2	35
o-Xylene	<0.00202	U	0.0996	0.08414		mg/Kg		84	70 - 130	6	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	128		70 - 130								
1,4-Difluorobenzene (Surr)	90		70 - 130								

Lab Sample ID: MB 880-26277/5-A

Matrix: Solid

Analysis Batch: 26220

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26277

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/25/22 13:36	05/26/22 00:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/25/22 13:36	05/26/22 00:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/25/22 13:36	05/26/22 00:31	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		05/25/22 13:36	05/26/22 00:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/25/22 13:36	05/26/22 00:31	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/25/22 13:36	05/26/22 00:31	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			05/25/22 13:36	05/26/22 00:31	1
1,4-Difluorobenzene (Surr)	93		70 - 130			05/25/22 13:36	05/26/22 00:31	1

Lab Sample ID: LCS 880-26277/1-A

Matrix: Solid

Analysis Batch: 26220

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26277

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07640		mg/Kg		76	70 - 130
Toluene	0.100	0.08606		mg/Kg		86	70 - 130
Ethylbenzene	0.100	0.1014		mg/Kg		101	70 - 130
m,p-Xylenes	0.200	0.1840		mg/Kg		92	70 - 130
o-Xylene	0.100	0.08955		mg/Kg		90	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	101		70 - 130				
1,4-Difluorobenzene (Surr)	94		70 - 130				

Lab Sample ID: LCSD 880-26277/2-A

Matrix: Solid

Analysis Batch: 26220

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 26277

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07709		mg/Kg		77	70 - 130	1	35
Toluene	0.100	0.07848		mg/Kg		78	70 - 130	9	35
Ethylbenzene	0.100	0.09277		mg/Kg		93	70 - 130	9	35
m,p-Xylenes	0.200	0.1682		mg/Kg		84	70 - 130	9	35
o-Xylene	0.100	0.08340		mg/Kg		83	70 - 130	7	35

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QC Sample Results

Client: Lighthouse Environmental Services, Inc
 Project/Site: Welcome to Golden CS BTEX (2202-5653)

Job ID: 880-15074-1
 SDG: 32.018540, -103.976880

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	LCS D %Recovery	LCS D Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-15149-A-25-C MS
 Matrix: Solid
 Analysis Batch: 26220

Client Sample ID: Matrix Spike
 Prep Type: Total/NA
 Prep Batch: 26277

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.101	0.08975		mg/Kg		89	70 - 130
Toluene	<0.00201	U	0.101	0.08160		mg/Kg		81	70 - 130
Ethylbenzene	<0.00201	U	0.101	0.1003		mg/Kg		99	70 - 130
m,p-Xylenes	<0.00402	U	0.202	0.1701		mg/Kg		84	70 - 130
o-Xylene	<0.00201	U	0.101	0.09304		mg/Kg		92	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-15149-A-25-D MSD
 Matrix: Solid
 Analysis Batch: 26220

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total/NA
 Prep Batch: 26277

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00201	U	0.100	0.08318		mg/Kg		83	70 - 130	8	35
Toluene	<0.00201	U	0.100	0.07360		mg/Kg		73	70 - 130	10	35
Ethylbenzene	<0.00201	U	0.100	0.09174		mg/Kg		92	70 - 130	9	35
m,p-Xylenes	<0.00402	U	0.200	0.1543		mg/Kg		77	70 - 130	10	35
o-Xylene	<0.00201	U	0.100	0.08612		mg/Kg		85	70 - 130	8	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: MB 880-26347/5-A
 Matrix: Solid
 Analysis Batch: 26367

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 26347

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/26/22 11:13	05/26/22 16:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/26/22 11:13	05/26/22 16:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/26/22 11:13	05/26/22 16:09	1
m,p-Xylenes	<0.00400	U	0.00400	mg/Kg		05/26/22 11:13	05/26/22 16:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/26/22 11:13	05/26/22 16:09	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/26/22 11:13	05/26/22 16:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	05/26/22 11:13	05/26/22 16:09	1
1,4-Difluorobenzene (Surr)	100		70 - 130	05/26/22 11:13	05/26/22 16:09	1

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QC Sample Results

Client: Lighthouse Environmental Services, Inc
 Project/Site: Welcome to Golden CS BTEX (2202-5653)

Job ID: 880-15074-1
 SDG: 32.018540, -103.976880

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-26347/1-A

Matrix: Solid

Analysis Batch: 26367

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26347

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1121		mg/Kg		112	70 - 130
Toluene	0.100	0.1077		mg/Kg		108	70 - 130
Ethylbenzene	0.100	0.1115		mg/Kg		112	70 - 130
m,p-Xylenes	0.200	0.2223		mg/Kg		111	70 - 130
o-Xylene	0.100	0.1071		mg/Kg		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-26347/2-A

Matrix: Solid

Analysis Batch: 26367

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 26347

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1107		mg/Kg		111	70 - 130	1	35
Toluene	0.100	0.1017		mg/Kg		102	70 - 130	6	35
Ethylbenzene	0.100	0.1061		mg/Kg		106	70 - 130	5	35
m,p-Xylenes	0.200	0.2108		mg/Kg		105	70 - 130	5	35
o-Xylene	0.100	0.1011		mg/Kg		101	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-15143-A-11-F MS

Matrix: Solid

Analysis Batch: 26367

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 26347

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.09817		mg/Kg		98	70 - 130
Toluene	<0.00201	U	0.100	0.08807		mg/Kg		88	70 - 130
Ethylbenzene	<0.00201	U	0.100	0.09106		mg/Kg		91	70 - 130
m,p-Xylenes	<0.00402	U	0.201	0.1820		mg/Kg		91	70 - 130
o-Xylene	<0.00201	U	0.100	0.08738		mg/Kg		87	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-15143-A-11-G MSD

Matrix: Solid

Analysis Batch: 26367

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 26347

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0996	0.1034		mg/Kg		104	70 - 130	5	35
Toluene	<0.00201	U	0.0996	0.09117		mg/Kg		92	70 - 130	3	35
Ethylbenzene	<0.00201	U	0.0996	0.09291		mg/Kg		93	70 - 130	2	35

Eurofins Midland

QC Sample Results

Client: Lighthouse Environmental Services, Inc
Project/Site: Welcome to Golden CS BTEX (2202-5653)Job ID: 880-15074-1
SDG: 32.018540, -103.976880

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-15143-A-11-G MSD

Matrix: Solid

Analysis Batch: 26367

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 26347

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m,p-Xylenes	<0.00402	U	0.199	0.1857		mg/Kg		93	70 - 130	2	35
o-Xylene	<0.00201	U	0.0996	0.08937		mg/Kg		90	70 - 130	2	35
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	90		70 - 130								
1,4-Difluorobenzene (Surr)	106		70 - 130								

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-26124/1-A

Matrix: Solid

Analysis Batch: 26134

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26124

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/24/22 08:22	05/24/22 10:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/24/22 08:22	05/24/22 10:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/24/22 08:22	05/24/22 10:11	1
Surrogate	%Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac		
1-Chlorooctane (Surr)	122		70 - 130	05/24/22 08:22	05/24/22 10:11	1		
o-Terphenyl (Surr)	119		70 - 130	05/24/22 08:22	05/24/22 10:11	1		

Lab Sample ID: LCS 880-26124/2-A

Matrix: Solid

Analysis Batch: 26134

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26124

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1118		mg/Kg		112	70 - 130
Diesel Range Organics (Over C10-C28)	1000	972.6		mg/Kg		97	70 - 130
Surrogate	%Recovery	LCS Qualifier	LCS Limits				
1-Chlorooctane (Surr)	147	S1+	70 - 130				
o-Terphenyl (Surr)	127		70 - 130				

Lab Sample ID: LCSD 880-26124/3-A

Matrix: Solid

Analysis Batch: 26134

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 26124

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	814.5	*1	mg/Kg		81	70 - 130	31	20
Diesel Range Organics (Over C10-C28)	1000	776.9	*1	mg/Kg		78	70 - 130	22	20

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QC Sample Results

Client: Lighthouse Environmental Services, Inc
 Project/Site: Welcome to Golden CS BTEX (2202-5653)

Job ID: 880-15074-1
 SDG: 32.018540, -103.976880

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-26124/3-A
Matrix: Solid
Analysis Batch: 26134

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 26124

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane (Surr)	115		70 - 130
o-Terphenyl (Surr)	102		70 - 130

Lab Sample ID: 880-15067-A-21-C MS
Matrix: Solid
Analysis Batch: 26134

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 26124

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
				Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	55.3	*1	1000	778.9		mg/Kg		72	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U *1	1000	799.3		mg/Kg		78	70 - 130

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane (Surr)	88		70 - 130
o-Terphenyl (Surr)	75		70 - 130

Lab Sample ID: 880-15067-A-21-D MSD
Matrix: Solid
Analysis Batch: 26134

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 26124

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
				Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	55.3	*1	999	925.3		mg/Kg		87	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	<50.0	U *1	999	906.2		mg/Kg		89	70 - 130	13	20

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane (Surr)	100		70 - 130
o-Terphenyl (Surr)	85		70 - 130

Lab Sample ID: MB 880-26176/1-A
Matrix: Solid
Analysis Batch: 26162

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 26176

Analyte	MB MB		RL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier				Time	Time			
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/24/22 11:09	05/24/22 12:30			1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/24/22 11:09	05/24/22 12:30			1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/24/22 11:09	05/24/22 12:30			1

Surrogate	MB MB		Limits	Prepared		Analyzed		Dil Fac
	%Recovery	Qualifier		Time	Time			
1-Chlorooctane (Surr)	102		70 - 130	05/24/22 11:09	05/24/22 12:30			1
o-Terphenyl (Surr)	110		70 - 130	05/24/22 11:09	05/24/22 12:30			1

Eurofins Midland

QC Sample Results

Client: Lighthouse Environmental Services, Inc
 Project/Site: Welcome to Golden CS BTEX (2202-5653)

Job ID: 880-15074-1
 SDG: 32.018540, -103.976880

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-15087-A-1-C MSD
 Matrix: Solid
 Analysis Batch: 26162

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total/NA
 Prep Batch: 26176

Surrogate	%Recovery	MSD Qualifier	MSD Limits
<i>o</i> -Terphenyl (Surr)	74		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-26182/1-A
 Matrix: Solid
 Analysis Batch: 26376

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			05/27/22 14:04	1

Lab Sample ID: LCS 880-26182/2-A
 Matrix: Solid
 Analysis Batch: 26376

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	253.3		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-26182/3-A
 Matrix: Solid
 Analysis Batch: 26376

Client Sample ID: Lab Control Sample Dup
 Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	252.8		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-15074-1 MS
 Matrix: Solid
 Analysis Batch: 26376

Client Sample ID: CS-1
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	146		248	388.5		mg/Kg		98	90 - 110

Lab Sample ID: 880-15074-1 MSD
 Matrix: Solid
 Analysis Batch: 26376

Client Sample ID: CS-1
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	146		248	389.7		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: Lighthouse Environmental Services, Inc
 Project/Site: Welcome to Golden CS BTEX (2202-5653)

Job ID: 880-15074-1
 SDG: 32.018540, -103.976880

GC VOA

Prep Batch: 26121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-26121/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 26122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15074-1	CS-1	Total/NA	Solid	8021B	26188
MB 880-26121/5-A	Method Blank	Total/NA	Solid	8021B	26121
MB 880-26188/5-A	Method Blank	Total/NA	Solid	8021B	26188
LCS 880-26188/1-A	Lab Control Sample	Total/NA	Solid	8021B	26188
LCSD 880-26188/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	26188
880-15094-A-27-C MS	Matrix Spike	Total/NA	Solid	8021B	26188
880-15094-A-27-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	26188

Prep Batch: 26178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-26178/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 26188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15074-1	CS-1	Total/NA	Solid	5035	
MB 880-26188/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-26188/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-26188/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-15094-A-27-C MS	Matrix Spike	Total/NA	Solid	5035	
880-15094-A-27-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 26220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15074-2	CS-2	Total/NA	Solid	8021B	26277
880-15074-3	CS-3	Total/NA	Solid	8021B	26277
880-15074-4	CS-4	Total/NA	Solid	8021B	26277
880-15074-5	CS-5	Total/NA	Solid	8021B	26277
880-15074-6	CS-6	Total/NA	Solid	8021B	26277
MB 880-26178/5-A	Method Blank	Total/NA	Solid	8021B	26178
MB 880-26277/5-A	Method Blank	Total/NA	Solid	8021B	26277
LCS 880-26277/1-A	Lab Control Sample	Total/NA	Solid	8021B	26277
LCSD 880-26277/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	26277
880-15149-A-25-C MS	Matrix Spike	Total/NA	Solid	8021B	26277
880-15149-A-25-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	26277

Analysis Batch: 26256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15074-1	CS-1	Total/NA	Solid	Total BTEX	
880-15074-2	CS-2	Total/NA	Solid	Total BTEX	
880-15074-3	CS-3	Total/NA	Solid	Total BTEX	
880-15074-4	CS-4	Total/NA	Solid	Total BTEX	
880-15074-5	CS-5	Total/NA	Solid	Total BTEX	
880-15074-6	CS-6	Total/NA	Solid	Total BTEX	

Prep Batch: 26277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15074-2	CS-2	Total/NA	Solid	5035	

Eurofins Midland

QC Association Summary

Client: Lighthouse Environmental Services, Inc
 Project/Site: Welcome to Golden CS BTEX (2202-5653)

Job ID: 880-15074-1
 SDG: 32.018540, -103.976880

GC VOA (Continued)

Prep Batch: 26277 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15074-3	CS-3	Total/NA	Solid	5035	
880-15074-4	CS-4	Total/NA	Solid	5035	
880-15074-5	CS-5	Total/NA	Solid	5035	
880-15074-6	CS-6	Total/NA	Solid	5035	
MB 880-26277/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-26277/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-26277/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-15149-A-25-C MS	Matrix Spike	Total/NA	Solid	5035	
880-15149-A-25-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 26347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15074-1	CS-1	Total/NA	Solid	5035	
MB 880-26347/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-26347/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-26347/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-15143-A-11-F MS	Matrix Spike	Total/NA	Solid	5035	
880-15143-A-11-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 26367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15074-1	CS-1	Total/NA	Solid	8021B	26347
MB 880-26347/5-A	Method Blank	Total/NA	Solid	8021B	26347
LCS 880-26347/1-A	Lab Control Sample	Total/NA	Solid	8021B	26347
LCSD 880-26347/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	26347
880-15143-A-11-F MS	Matrix Spike	Total/NA	Solid	8021B	26347
880-15143-A-11-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	26347

GC Semi VOA

Prep Batch: 26124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15074-3	CS-3	Total/NA	Solid	8015NM Prep	
880-15074-4	CS-4	Total/NA	Solid	8015NM Prep	
880-15074-5	CS-5	Total/NA	Solid	8015NM Prep	
880-15074-6	CS-6	Total/NA	Solid	8015NM Prep	
MB 880-26124/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-26124/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-26124/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-15067-A-21-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-15067-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 26134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15074-3	CS-3	Total/NA	Solid	8015B NM	26124
880-15074-4	CS-4	Total/NA	Solid	8015B NM	26124
880-15074-5	CS-5	Total/NA	Solid	8015B NM	26124
880-15074-6	CS-6	Total/NA	Solid	8015B NM	26124
MB 880-26124/1-A	Method Blank	Total/NA	Solid	8015B NM	26124
LCS 880-26124/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	26124
LCSD 880-26124/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	26124

Eurofins Midland

QC Association Summary

Client: Lighthouse Environmental Services, Inc
 Project/Site: Welcome to Golden CS BTEX (2202-5653)

Job ID: 880-15074-1
 SDG: 32.018540, -103.976880

GC Semi VOA (Continued)

Analysis Batch: 26134 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15067-A-21-C MS	Matrix Spike	Total/NA	Solid	8015B NM	26124
880-15067-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	26124

Analysis Batch: 26162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15074-1	CS-1	Total/NA	Solid	8015B NM	26176
880-15074-2	CS-2	Total/NA	Solid	8015B NM	26176
MB 880-26176/1-A	Method Blank	Total/NA	Solid	8015B NM	26176
LCS 880-26176/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	26176
LCSD 880-26176/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	26176
880-15087-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	26176
880-15087-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	26176

Prep Batch: 26176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15074-1	CS-1	Total/NA	Solid	8015NM Prep	
880-15074-2	CS-2	Total/NA	Solid	8015NM Prep	
MB 880-26176/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-26176/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-26176/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-15087-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-15087-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 26231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15074-1	CS-1	Total/NA	Solid	8015 NM	
880-15074-2	CS-2	Total/NA	Solid	8015 NM	
880-15074-3	CS-3	Total/NA	Solid	8015 NM	
880-15074-4	CS-4	Total/NA	Solid	8015 NM	
880-15074-5	CS-5	Total/NA	Solid	8015 NM	
880-15074-6	CS-6	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 26182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15074-1	CS-1	Soluble	Solid	DI Leach	
880-15074-2	CS-2	Soluble	Solid	DI Leach	
880-15074-3	CS-3	Soluble	Solid	DI Leach	
880-15074-4	CS-4	Soluble	Solid	DI Leach	
880-15074-5	CS-5	Soluble	Solid	DI Leach	
880-15074-6	CS-6	Soluble	Solid	DI Leach	
MB 880-26182/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-26182/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-26182/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-15074-1 MS	CS-1	Soluble	Solid	DI Leach	
880-15074-1 MSD	CS-1	Soluble	Solid	DI Leach	

Analysis Batch: 26376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15074-1	CS-1	Soluble	Solid	300.0	26182

Eurofins Midland

QC Association Summary

Client: Lighthouse Environmental Services, Inc
 Project/Site: Welcome to Golden CS BTEX (2202-5653)

Job ID: 880-15074-1
 SDG: 32.018540, -103.976880

HPLC/IC (Continued)

Analysis Batch: 26376 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15074-2	CS-2	Soluble	Solid	300.0	26182
880-15074-3	CS-3	Soluble	Solid	300.0	26182
880-15074-4	CS-4	Soluble	Solid	300.0	26182
880-15074-5	CS-5	Soluble	Solid	300.0	26182
880-15074-6	CS-6	Soluble	Solid	300.0	26182
MB 880-26182/1-A	Method Blank	Soluble	Solid	300.0	26182
LCS 880-26182/2-A	Lab Control Sample	Soluble	Solid	300.0	26182
LCSD 880-26182/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	26182
880-15074-1 MS	CS-1	Soluble	Solid	300.0	26182
880-15074-1 MSD	CS-1	Soluble	Solid	300.0	26182

Lab Chronicle

Client: Lighthouse Environmental Services, Inc
 Project/Site: Welcome to Golden CS BTEX (2202-5653)

Job ID: 880-15074-1
 SDG: 32.018540, -103.976880

Client Sample ID: CS-1

Date Collected: 05/19/22 09:17

Date Received: 05/23/22 16:49

Lab Sample ID: 880-15074-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	26347	05/26/22 11:13	MR	XEN MID
Total/NA	Analysis	8021B		1			26367	05/26/22 22:20	MR	XEN MID
Total/NA	Prep	5035			4.99 g	5 mL	26188	05/24/22 13:56	MR	XEN MID
Total/NA	Analysis	8021B		1			26122	05/25/22 08:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26256	05/25/22 10:22	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26231	05/25/22 09:17	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	26176	05/24/22 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26162	05/24/22 21:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	26182	05/24/22 13:01	SC	XEN MID
Soluble	Analysis	300.0		1			26376	05/27/22 14:28	SC	XEN MID

Client Sample ID: CS-2

Date Collected: 05/19/22 09:13

Date Received: 05/23/22 16:49

Lab Sample ID: 880-15074-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	26277	05/25/22 13:36	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26220	05/26/22 01:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26256	05/25/22 10:22	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26231	05/25/22 09:17	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26176	05/24/22 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26162	05/24/22 21:23	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	26182	05/24/22 13:01	SC	XEN MID
Soluble	Analysis	300.0		1			26376	05/27/22 14:51	SC	XEN MID

Client Sample ID: CS-3

Date Collected: 05/19/22 08:20

Date Received: 05/23/22 16:49

Lab Sample ID: 880-15074-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	26277	05/25/22 13:36	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26220	05/26/22 01:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26256	05/25/22 10:22	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26231	05/25/22 09:17	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26124	05/24/22 13:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26134	05/24/22 18:11	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	26182	05/24/22 13:01	SC	XEN MID
Soluble	Analysis	300.0		1			26376	05/27/22 14:59	SC	XEN MID

Eurofins Midland

Lab Chronicle

Client: Lighthouse Environmental Services, Inc
 Project/Site: Welcome to Golden CS BTEX (2202-5653)

Job ID: 880-15074-1
 SDG: 32.018540, -103.976880

Client Sample ID: CS-4

Lab Sample ID: 880-15074-4

Date Collected: 05/19/22 09:23

Matrix: Solid

Date Received: 05/23/22 16:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	26277	05/25/22 13:36	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26220	05/26/22 02:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26256	05/25/22 10:22	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26231	05/25/22 09:17	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	26124	05/24/22 13:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26134	05/24/22 18:32	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	26182	05/24/22 13:01	SC	XEN MID
Soluble	Analysis	300.0		1			26376	05/27/22 15:07	SC	XEN MID

Client Sample ID: CS-5

Lab Sample ID: 880-15074-5

Date Collected: 05/19/22 09:26

Matrix: Solid

Date Received: 05/23/22 16:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	26277	05/25/22 13:36	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26220	05/26/22 02:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26256	05/25/22 10:22	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26231	05/25/22 09:17	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	26124	05/24/22 08:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26134	05/24/22 18:53	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	26182	05/24/22 13:01	SC	XEN MID
Soluble	Analysis	300.0		1			26376	05/27/22 15:15	SC	XEN MID

Client Sample ID: CS-6

Lab Sample ID: 880-15074-6

Date Collected: 05/19/22 09:30

Matrix: Solid

Date Received: 05/23/22 16:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	26277	05/25/22 13:36	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26220	05/26/22 02:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26256	05/25/22 10:22	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26231	05/25/22 09:17	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	26124	05/24/22 08:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			26134	05/24/22 19:14	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	26182	05/24/22 13:01	SC	XEN MID
Soluble	Analysis	300.0		1			26376	05/27/22 15:39	SC	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Accreditation/Certification Summary

Client: Lighthouse Environmental Services, Inc
Project/Site: Welcome to Golden CS BTEX (2202-5653)

Job ID: 880-15074-1
SDG: 32.018540, -103.976880

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
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Method Summary

Client: Lighthouse Environmental Services, Inc
 Project/Site: Welcome to Golden CS BTEX (2202-5653)

Job ID: 880-15074-1
 SDG: 32.018540, -103.976880

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Lighthouse Environmental Services, Inc
Project/Site: Welcome to Golden CS BTEX (2202-5653)

Job ID: 880-15074-1
SDG: 32.018540, -103.976880

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-15074-1	CS-1	Solid	05/19/22 09:17	05/23/22 16:49	1.5'
880-15074-2	CS-2	Solid	05/19/22 09:13	05/23/22 16:49	1.5'
880-15074-3	CS-3	Solid	05/19/22 08:20	05/23/22 16:49	1.5'
880-15074-4	CS-4	Solid	05/19/22 09:23	05/23/22 16:49	1.5'
880-15074-5	CS-5	Solid	05/19/22 09:26	05/23/22 16:49	1.5'
880-15074-6	CS-6	Solid	05/19/22 09:30	05/23/22 16:49	1.5'

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Environment Testing
Xenco

Houston TX (281) 240-4200 Dallas TX (214) 902-0300
Midland TX (432) 704-5440 San Antonio TX (210) 509-3334
El Paso TX (915) 585-3443 Lubbock TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Chain of Custody

Work Order No: 15074

www.xenco.com

Page 1 of 1

Project Manager:	Simon Hudgens	Bill to (if different):	Attn Sandy Roberts
Company Name:	Lighthouse Environmental Services, Inc	Company Name:	Lighthouse Environmental Services Inc
Address:	4904 Fuqua Street	Address:	PO Box 84152
City, State ZIP:	Houston, TX 77048	City, State ZIP:	Pearland TX 77584
Phone:	713-987-0400	Email:	shudgens@lighthouseenv.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project: NM	
Reporting Level: <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Welcome to Golden CS BTEX	Turn Around:	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code:	
Project Number:	2202-5653	Due Date:			
Project Location:	32 018540 -103 976880	TAT starts the day received by the lab if received by 4:30pm			
Sampler's Name:	Trey Sawyer				
PO #:	2202-5653				

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	TPH TX-1005, Extended Ranges	TCLP BTEX	TCLP RCRA 8 Metals	Total Sulfur	BTEX 8021B	RCI	pH	TPH 8015 GRO, DRO, MRO	Chloride EPA 300 0	Preservative Codes	Sample Comments	
CS-1	Soil	5/19/22	0917	15'	Grab	1					X			X		None NO	DI Water H ₂ O	
CS-2	Soil	5/19/22	0913	15'	Grab	1					X			X		Cool Cool	MeOH Me	
CS-3	Soil	5/19/22	0920	15'	Grab	1					X			X		HCl HC	HNO ₃ HN	
CS-4	Soil	5/19/22	0923	15'	Grab	1					X			X		H ₂ SO ₄ H ₂	NaOH Na	
CS-5	Soil	5/19/22	0926	15'	Grab	1					X			X		H ₃ PO ₄ HP		
CS-6	Soil	5/19/22	0930	15'	Grab	1					X			X		NAHSO ₄ NABIS		
																Na ₂ S ₂ O ₃ NaSO ₃		
																Zn Acetate+NaOH Zn		
																NaOH+Ascorbic Acid SAPC		



880-15074 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni N K Se Ag SiO₂ Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed: TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 245 1 / 7470 / 7471

Relinquished by (Signature):	Received by (Signature):	Date/Time:	Relinquished by (Signature):	Received by (Signature):	Date/Time:
<i>[Signature]</i>	<i>[Signature]</i>	5/23/22	<i>[Signature]</i>	<i>[Signature]</i>	10/19/22

Login Sample Receipt Checklist

Client: Lighthouse Environmental Services, Inc

Job Number: 880-15074-1
SDG Number: 32.018540, -103.976880

Login Number: 15074
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Waste Manifest

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number 024172236 JJK	
5. Generator's Name and Mailing Address <i>Salt Creek Midstream</i>			Generator's Site Address (if different than mailing address) <i>32° 01' 06.7" N 103° 58' 36.8" W</i>			
Generator's Phone: <i>1800-807-3628</i>			U.S. EPA ID Number			
6. Transporter 1 Company Name <i>Lighthouse Environmental</i>			Trk # <i>5103</i>		U.S. EPA ID Number <i>WHP 4219</i>	
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address			U.S. EPA ID Number			
Facility's Phone:						
9a HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
1.	<i>Contaminated Dirt</i>	<i>1</i>	<i>RB</i>	<i>10yds</i>		
2.	<i>Box # 60001</i>					
3.						
4.						
14. Special Handling Instructions and Additional Information <i>P5 # 758381 LHS # 2202-5653 RB # 60001</i>						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offeror's Printed/Typed Name			Signature		Month	Day Year
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name <i>Antonio Ramos</i>			Signature		Month	Day Year <i>5 13 22</i>
Transporter 2 Printed/Typed Name			Signature		Month	Day Year
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
Manifest Reference Number: _____ U.S. EPA ID Number _____						
18b. Alternate Facility (or Generator)						
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator)					Month	Day Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1.	2.	3.	4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name			Signature		Month	Day Year

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY



No. 1121976

WASTE MANIFEST

1. GENERATOR INFORMATION

Generator (Company):	<u>Salt Creek Midstream</u>			Bill Generator:	<input type="checkbox"/>
Address:	<u>32° 01' 06.7" N 103° 58' 36.8 W</u>				
	City/Town	State	Zip Code	Phone Number:	
Waste Description:					Waste Approval Code: <u>P5 #758381</u>
Generating Location:	Lease/Field/Well #				Shipping Date:
	Rig Name/Rig #				Est. Quantity Shipped: <u>10 yds</u>
	City/Town	State	Zip Code	Waste Code (EXP or PROD):	

I hereby certify that the aforementioned waste material contains **NO FREE LIQUIDS** and it has been classified and packaged for shipping as per federal, state and regulatory criteria. I further certify that this waste material is an acceptable waste for the receiving facility below. I understand that it is the sole responsibility of the generator to classify their waste properly.

Certified By: (print name)		Date (mm/dd/yy)	Signature:
Company Name:		Phone Number:	

2. TRANSPORTER INFORMATION

Trucking Company:	<u>Lighthouse Environmental</u>			Bill Transporter:	<input checked="" type="checkbox"/>
Address:					Trailer Number:
Phone Number:					Permit No. <u>4219</u>
License Plate Number:					Truck Number: <u>5103</u>

I hereby certify that the waste in quantity above was received by me for shipment to the below destination.

Certified By: (print name)	<u>Antonio Ramos</u>	Date (mm/dd/yy)	Signature: <u>A. Ramos</u>
----------------------------	----------------------	-----------------	----------------------------

3. WASTE INFORMATION

- | | | | |
|--|---|---|---|
| <input type="checkbox"/> Oil Base Mud | <input type="checkbox"/> Drill Cuttings | <input type="checkbox"/> Oil Spill Waste/Solids | <input type="checkbox"/> Equipment Assist |
| <input type="checkbox"/> Water Base Mud | <input type="checkbox"/> Production Pit Sludges | <input type="checkbox"/> Produced Sands/Solids | <input type="checkbox"/> Liner |
| <input type="checkbox"/> Produced Water (SW) | <input type="checkbox"/> Storage Tank Bottoms | <input type="checkbox"/> Produced Water (SW) | <input type="checkbox"/> |
| <input type="checkbox"/> Oil Base Cuttings | <input checked="" type="checkbox"/> Contaminated Soil | <input type="checkbox"/> Completion Fluids | <input type="checkbox"/> |
| <input type="checkbox"/> Water Base Cuttings | <input type="checkbox"/> Gas Plant Waste Solids | <input type="checkbox"/> Washout Time | <input type="checkbox"/> |

4. REPUBLIC SERVICES LANDFILL INFORMATION

Waste Destined For:	<input checked="" type="checkbox"/> Land Disposal		<input type="checkbox"/> TRD Disposal	
Waste Discrepancy:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Rejected:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Reason Rejected:				
Gross Weight:	Tare Weight:	Net Weight:		
Waste Location:	Cell: <u>PP</u>	Grid:	Elevation:	

I hereby certify that to the best of my knowledge, all information in this document is correct and accurate and said material has been received in good order.

Certified By: (print name)	<u>Melanie Marturice</u>	Date (mm/dd/yy)	Signature: <u>[Signature]</u>
----------------------------	--------------------------	-----------------	-------------------------------

White (Original) Yellow (Head Office) Pink (Generator) Gold (Transporter) Green (Generator Retains at Site)

Copy of Waste Manifest v2

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720
District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720
District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 122029

CONDITIONS

Operator: SCM Operations, LLC 5825 N Sam Houston Pkwy W Houston, TX 77086	OGRID: 330368
	Action Number: 122029
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2210152427 WELCOME TO GOLDEN COMPRESSOR STATION, thank you. This closure is approved.	11/2/2022