

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

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

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

Incident ID	nAPP2128551283
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party	Plains Pipeline, L.P.	OGRID	713291
Contact Name	Amber Groves	Contact Telephone	575-200-5517
Contact email	algroves@paalp.com	Incident #	(assigned by OCD)
Contact mailing address			3112 W. US Hwy 82, Lovington, NM 88260

### Location of Release Source

Latitude 32.06135Longitude -103.737193  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Plains Snapping Pump	Site Type	Pipeline Pumping Station
Date Release Discovered	10/11/2021	API# (if applicable)	

Unit Letter	Section	Township	Range	County
D	12	26S	31E	Eddy

Surface Owner:  State  Federal  Tribal  Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls)	22.5 bbls	Volume Recovered (bbls)	10 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 type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)		Volume/Weight Recovered (provide units)	

## Cause of Release

Discharge dampener bladder busted causing a retaining bolt failure.

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Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?     
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

## Initial Response

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

- The source of the release has been stopped.
- The impacted area has been secured to protect human health and the environment.
- Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If 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: Amber Groves

Title: Remediation Coordinator

Signature: Amber Groves

Date: 10/22/2021

email: algroves@paalp.com

Telephone: (575)200-5517

## OCD Only

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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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>Unknown</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?	<input checked="" type="checkbox"/> Yes <input 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 <b>not</b> on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input 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.

Form C-141

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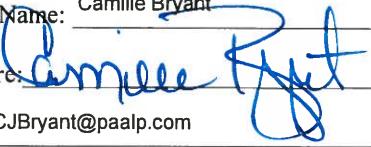
State of New Mexico  
Oil Conservation Division

Incident ID	nAPP2128551283
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Camille Bryant

Title: HSE Remediation Supervisor

Signature: 

Date: 4/4/2022

email: CJBryant@paalp.com

Telephone: 432-221-7924

**OCD Only**

Received by: \_\_\_\_\_

Date: \_\_\_\_\_

State of New Mexico  
Oil Conservation Division

Incident ID	nAPP2128551283
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Application ID	

## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

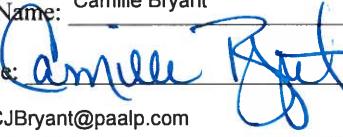
**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Camille Bryant

Title: HSE Remediation Supervisor

Signature: 

Date: 4/4/2022

email: CJBryant@paalp.com

Telephone: 432-221-7924

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

- Approved       Approved with Attached Conditions of Approval       Denied       Deferral Approved

Signature: 

Date: 04/20/2022

2135 S. Loop 250 W,  
Midland, Texas 79703  
United States  
www.ghd.com

Our ref: 12565619

March 24, 2022

**New Mexico Oil Conservation Division  
District 2  
811 S. First St.  
Artesia, NM 88210**

**Re: Site Characterization and Remediation Work Plan  
Snapping Pump Release Site  
Plains Pipeline, L.P.  
Incident ID: nAPP2128551283  
D-12-26S-31E, Eddy County, New Mexico**

To Whom It May Concern:

## **1. Introduction**

GHD Services, Inc. (GHD), on behalf of Plains Pipeline, L.P. (Plains), submits this Site Characterization and Remediation Work Plan (Report) to the New Mexico Oil Conservation Division (NMOCD) District 2 Office. This Report provides documentation of excavation activities, confirmation sampling, and analyses in the affected area at the Plains Snapping Pump Release Site (Site). The Site is located in the Unit Letter D Section 12 of Township 26 South and Range 31 East in Eddy County, New Mexico. The GPS coordinates for this Site are 32.06135° N latitude and 103.737193 W longitude. The release occurred on October 11, 2021, on land managed by the Bureau of Land Management (BLM). Figure 1 depicts the Site location. Figure 2, Confirmation Sampling: Soil Analytical Results Map, depicts the excavated area and other site details.

## **2. Background Information**

A C-141, Release Notification, for this release was submitted to the NMOCD on October 22, 2021. The C-141 stated the release was due to a discharge dampener bladder that failed, causing a retaining bolt failure. The release was reported as 22.5 barrels of crude oil with 10 barrels recovered. The release falls under the jurisdiction of the NMOCD District 2 Office in Artesia, New Mexico. The NMOCD assigned the release with Incident Number nAPP2128551283. The Release Notification, Site Assessment/Characterization and Remediation Plan portions of Form C-141 are attached to the front of this Report.

### 3. Groundwater and Site Characterization

GHD characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, from New Mexico Administrative Code (NMAC) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12).

According to the Site characterization evaluation and NMAC 19.15.29.12.C(4)(a)(i), the Site is located within an area of high Karst potential. No groundwater could be located within one-half mile of the Site. No other receptors (water wells, playas, wetlands, waterways, lakebeds, or ordinance boundaries) were located within each specific boundaries or distance from the Site. Since no groundwater information was available with one-half mile and the Site being located in a high karst area the site must be treated as it is located in an area where groundwater is less than fifty (50) feet below ground surface. The Site characterization documentation (Karst Potential, FEMA, Points of Diversion, Significant Watercourses, and Wetlands maps) are provided in Attachment A. The soil and closure criteria are listed below:

*General Site Characterization and Groundwater:*

Site Characterization	Average Groundwater Depth (ft.)
High Karst Potential	Unknown within a Half Mile

Table 3.1      *Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29.12)*

Constituent	Limits
Chloride	600 mg/kg
TPH (GRO+DRO+MRO)	100 mg/kg
TPH (GRO+DRO)	Not Applicable
Benzene	10 mg/kg
BTEX	50 mg/kg

### 4. Initial Soil Delineation Assessment Summary and Findings

During initial response activities on October 14, 2021, four (4) hand auger borings were installed to assess depth of soil impact at the location. Hand auger borings AH1, AH2, and AH4 were installed to three (3) feet below ground surface, and AH3 was installed to five (5) feet below ground surface. Soil samples were collected at depths ranging from one (1) to five (5) feet below ground surface. All soil samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300 by Eurofins Xenco Laboratory (Eurofins) in Midland, TX. Hand auger samples AH1-1', AH2-2', AH3-1', AH3-3', AH4-1', and AH4-3' exhibited Total TPH concentrations above Table I closure criteria. BTEX concentrations were above the Table I closure criteria in soil samples AH1-1' and AH3-1'. Excavation activities began with initial response activities and continued through January 27, 2022.

On December 13, 2021, thirteen (13) bottom hole composite confirmation samples (BH-1 to BH-13) and eight (8) sidewall composite confirmation samples (SW-1 to SW-8) were collected at depths ranging from three (3) to four (4) feet below ground surface from areas representing no greater than two hundred (200) square feet. All soil samples were analyzed for BTEX concentration by Method EPA Method 8021B, TPH concentration by Method 8015B Modified, and chloride concentrations by EPA Method 300 by Eurofins in Midland, TX. Sidewall confirmation samples SW-7 and SW-8 exhibited Total TPH concentrations above Table I closure criteria. Total TPH concentrations ranged from 118 mg/kg at SW-8 and 241 mg/kg at SW-7. All bottom hole samples and the

remaining sidewall samples exhibited concentration below Table I closure criteria for all constituents of concern.

On January 4 and 5, 2022, excavation activities continued with thirteen (13) bottom hole composite confirmation samples (BH-14 to BH-26) collected at depths ranging from approximately ten (10) to twelve (12) feet below ground surface. Additionally, eighteen (18) sidewall composite confirmation samples (SW-9 to SW-26), and six (6) ramp composite confirmation samples (Ramp-1 through Ramp-6) were collected. The confirmation samples were collected from areas representing no greater than two hundred (200) square feet. All soil samples were analyzed for BTEX by Method EPA 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300 by Eurofins in Midland, TX. Bottom hole confirmation samples BH-14 and BH-16 to BH-18 exhibited Total TPH concentrations above the Table I closure criteria. Total TPH concentrations ranged from 108 mg/kg at BH-14 to 1,140 mg/kg at BH-18. Ramp confirmation samples Ramp-1 to Ramp-5 exhibited Total TPH concentrations above the Table I closure criteria. Total TPH concentrations ranged from 129 mg/kg at Ramp-4 to 180 mg/kg at Ramp-1. All other confirmation samples exhibited concentration below Table I closure criteria for all constituents of concern.

On January 17, 2022, further excavation activities were conducted in the areas represented by confirmation samples SW-7, SW-8 and the ramp area was expanded to allow excavation activities to progress. During expansion of the ramp area soil sample locations Ramp-1 through Ramp-6 were excavated. Seven (7) bottom hole composite confirmation samples (BH-27 to BH-33) and four (4) sidewall composite confirmation samples (SW-7, SW-8, SW-26 and SW-27) were collected. The confirmation samples were collected from areas representing no greater than two hundred (200) square feet. All soil samples were analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300 by Eurofins in Midland, TX. All bottom hole confirmation samples and sidewall confirmation samples exhibited benzene, BTEX, Total TPH, and chloride concentrations below the Table I closure criteria.

On January 27, 2022, further excavation activities were conducted in the areas represented by confirmation samples BH-14 through BH-19. These soil samples exhibited Total TPH concentrations above Table I closure criteria. Composite confirmation bottom holes sample BH-14A through BH-19A were collected from a depth of approximately nineteen feet below ground surface. Additionally, four (4) composite sidewall confirmation samples (SW-28 14'-19' to SW-31 14'-19') were collected from the newly excavated area from depths ranging from approximately, fourteen (14) to nineteen (19) feet below ground surface. The confirmation samples were collected from areas representing no greater than two hundred (200) square feet. All soil samples were analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300 by Eurofins in Midland, TX. Bottom hole confirmation samples BH-15A, BH-16A, and BH-17A exhibited Total TPH concentrations above the Table I closure criteria. Bottom hole BH-17A also exhibited BTEX concentrations above Table I closure criteria. Total TPH concentrations ranged from 125 mg/kg at BH-15A to 8,180 mg/kg at BH-17A. BTEX concentration was 55.8 mg/kg at BH-17A. All other confirmation samples exhibited concentration below Table I closure criteria for all constituents of concern.

On February 9, 2022, a test pit was installed in an area represented by BH-17/BH-17A to determine vertical delineation. One (1) test pit sample (TP1-26) was collected at twenty-six (26) feet below ground surface. The test pit sample was analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300 by Eurofins in Midland, TX. Test pit sample TP1-26 exhibited Total TPH concentrations above the Table I closure criteria, with a concentration of 3,830 mg/kg. Benzene and BTEX concentrations were below Table I closure criteria at twenty-six (26) feet below ground surface. No other samples were collected from the test pit due to unsafe excavation conditions.

Additionally, three (3) soil pile samples (SP-1 to SP-3) were collected from the excavation stockpile on February 9, 2022. All soil pile samples were analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300 by Eurofins in Midland, TX. Soil pile samples SP-1 and SP-2

exhibited Total TPH concentrations above the Table I closure criteria. Total TPH concentrations ranged from 112 mg/kg at SP-2 to 1,707 mg/kg at SP-1.

Figure 2, Confirmation Sampling: Soil Analytical Results Map, depicts the locations of the bottom hole and sidewalls confirmation samples and analytical concentrations. Analytical results are provided in Table 1, on Figure 2, and in the Laboratory Analytical Reports provided in Attachment C.

## 5. nAPP2128551283 Proposed Work Plan and Variance Request

The current depth of the excavation is approximately nineteen (19) feet below ground surface at the area represented by confirmation samples BH-14A through BH-19A. Vertical delineation is limited due to loose sand and high probability of cave-ins. The conditions of the excavation and further excavation pose a threat to the integrity of the pipelines and other equipment located adjacent to both the north and south sides of the excavation as indicated on the photographic log which is included as Attachment B. As such, further excavation cannot be conducted in a safe manner due to these limitations. Based on existing site conditions, Plains has determined that soil boring is a viable approach to vertically delineating soil impacts.

In order to install a soil boring, a PVC conduit will be installed in the bottom of the excavation at the area representing BH-17A, which is the sample point with the highest TPH and BTEX concentration. The PVC conduit will aid in drilling through backfill material. The PVC conduit will be extended up to above the ground surface during backfill activities. With NMOCD approval the excavation will be backfilled with imported non-impacted material.

After backfilling activities are complete, a licensed New Mexico driller will install a soil boring to delineate the extent of vertical impact at the site. Soil samples will be collected every five (5) feet from the soil boring starting at approximately thirty (30) feet below ground surface and will continue until field screens and observations indicate soil samples are below Table I closure criteria. Select soil samples will be submitted to a certified laboratory and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. After vertical delineation is completed, the soil boring will be plugged by a licensed New Mexico driller.

GHD, on behalf of Plains, requests a variance per NMAC 19.15.29.14 to install a 20-mil liner at the bottom of the excavation at approximately nineteen (19) feet below ground surface prior to backfilling. The liner will act as a control measure to mitigate the deeper migration of hydrocarbons and provide a barrier to any upward migration of hydrocarbons.

Excavated soils will be transported to a NMOCD-approved disposal facility for disposal and the excavation will be backfilled with imported non-impacted material. Once the site has been delineated, another work plan will be prepared with additional information collected during soil boring installation. The work plan will be submitted to the NMOCD for consideration. The activities described here are anticipated to take approximately one hundred and eighty (180) days from work plan approval.

If you have any questions or comments concerning this Site Characterization and Remediation Work Plan, please do not hesitate to contact our Midland office at (432) 686-0086.

Sincerely,

GHD



Becky Haskell  
Senior Project Manager



Tom Larson  
Project Director

BH/ZC/1

Encl. Figure 1 – Site Location Map

Figure 2 – Confirmation Sampling: Soil Analytical Results Map

Table 1 – Summary of Soil Analytical Data

Attachment A – Site Characterization Documentation

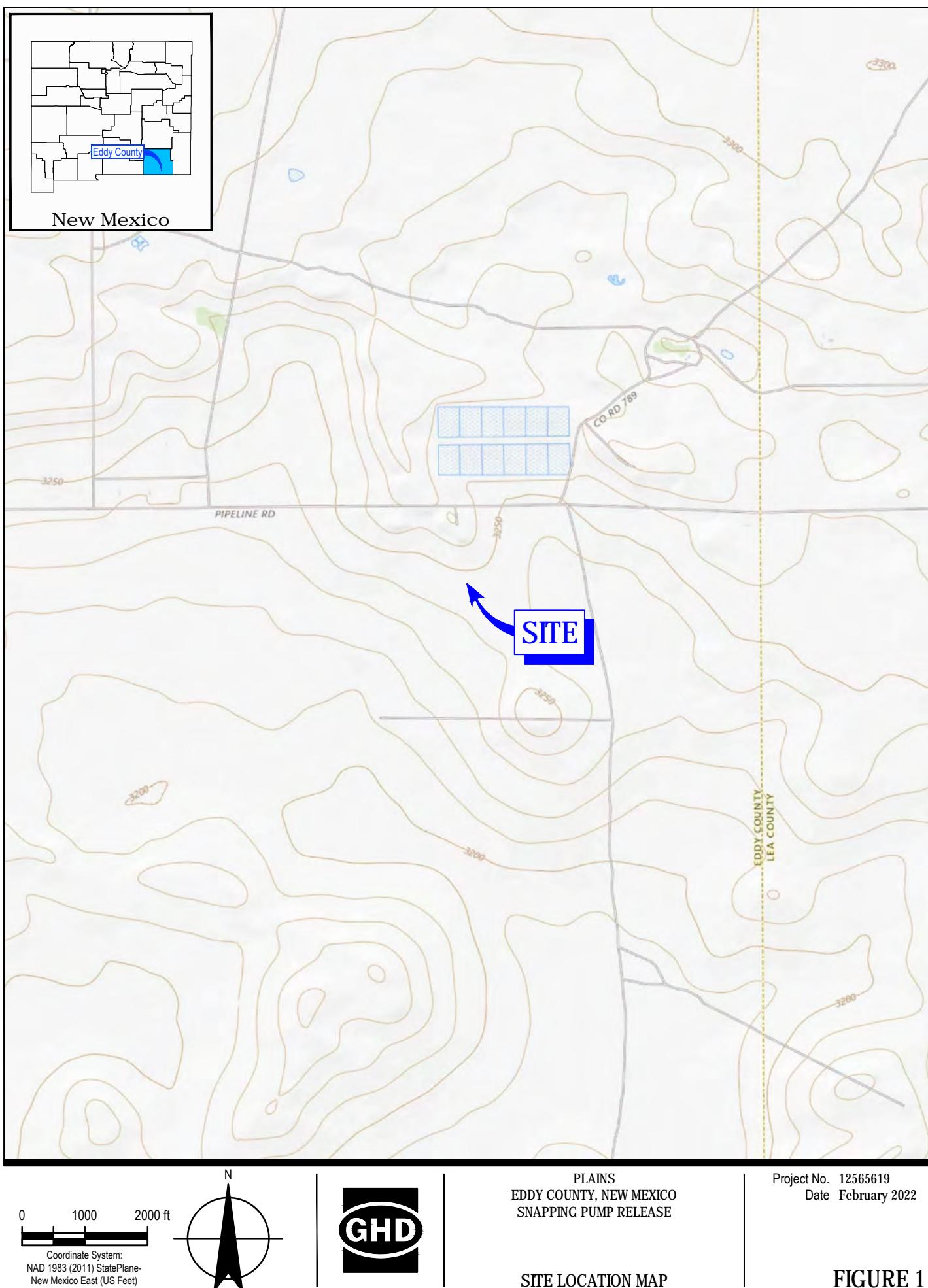
Attachment B – Photographic Log

Attachment C – Laboratory Analytical Reports and Chain-of-Custody Documentation

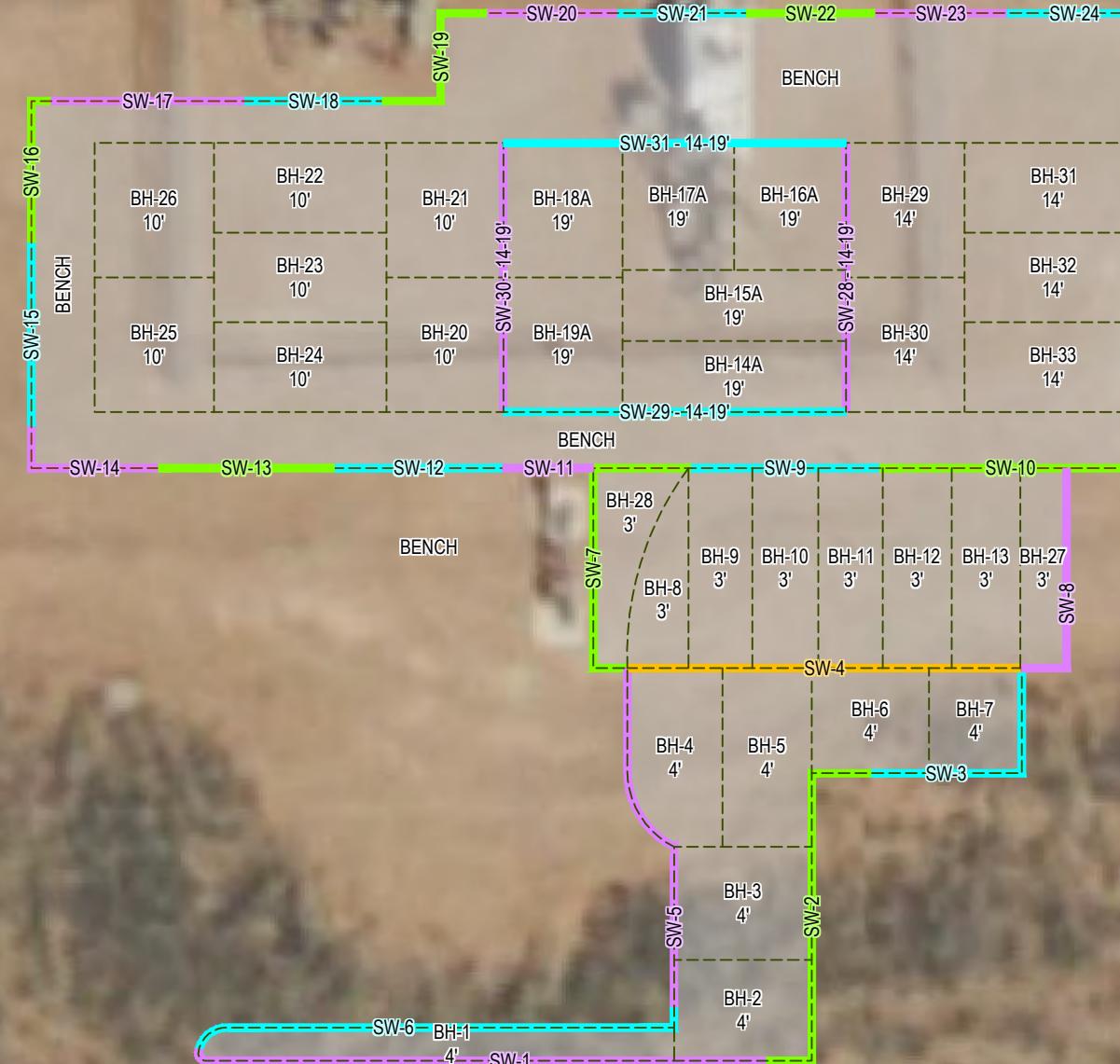
cc: Camille Bryant

→ The Power of Commitment

## Figures



Sample ID	Sample Date	Depth (ft bgs)	Benzene	BTEX	TPH		Chloride (mg/kg)
			(mg/kg)	(mg/kg)	Total GRO/DRO/MRO (mg/kg)		
			10 mg/kg	50 mg/kg	100 mg/kg	600 mg/kg	
<b>Bottom Hole Confirmation Samples</b>							
BH-1	12/13/21	4	<0.000384	<0.00101	56.4	37	
BH-2	12/13/21	4	0.000981 J	0.00205 J	31.6 J	9.17	
BH-3	12/13/21	4	<0.000383	0.00180 J	33.7 J	226	
BH-4	12/13/21	4	0.000745 J	0.00253 J	32.4 J	9.22	
BH-5	12/13/21	4	<0.000386	0.00270 J	45.4 J	6.25	
BH-6	12/13/21	4	<0.000387	<0.00101	29.4 J	5.41	
BH-7	12/13/21	4	<0.000385	<0.00101	39.6 J	71.1	
BH-8	12/13/21	3	<0.000384	<0.00101	55.2	6.02	
BH-9	12/13/21	3	0.000399 J	0.00364 J	23.7 J	15.6	
BH-10	12/13/21	3	0.00110 J	0.00161 J	34.0 J	7.98	
BH-11	12/13/21	3	<0.000387	<0.00101	32.1 J	8.69	
BH-12	12/13/21	3	<0.000383	<0.00101	32.6 J	5.76	
BH-13	12/13/21	3	<0.000387	<0.00102	47.9 J	4.92 J	
BH-14	1/5/22	12	<0.000383	<0.00100	108	12.9	
BH-14A	1/27/22	19	<0.000384	0.000109 J	<15.0	44.1	
BH-15	1/5/22	12	0.000626 J	0.00217 J	32.3 J	7.38	
BH-15A	1/27/22	19	<0.000389	0.00186 J	125	9.2	
BH-16	1/5/22	12	0.00153 J	0.709	656	7.92	
BH-16A	1/27/22	19	<0.000385	0.534	543	17.4	
BH-17	1/5/22	12	0.00241	0.666	527	5.96	
BH-17A	1/27/22	19	2.10	55.8	8,180	15.8	
BH-18	1/5/22	12	0.00143 J	0.882	1,140	31.1	
BH-18A	1/27/22	19	<0.000389	0.00126 J	<15.0	42.7	
BH-19	1/5/22	12	<0.000381	0.0141	21.0 J	32.4	
BH-19A	1/27/22	19	<0.000383	<0.00101	<15.0	2.51 J	
BH-20	1/5/22	10	<0.000384	0.00337 J	<15.0	7.54 F1	
BH-21	1/5/22	10	<0.000389	0.00148 J	30.7 J	8.11	
BH-22	1/5/22	10	<0.000383	0.00291 J	15.4 J	9.22	
BH-23	1/5/22	10	0.000403 J	0.00157 J	<15.0	47.9	
BH-24	1/5/22	10	0.00359	0.00673	<15.0	13.5	
BH-25	1/5/22	10	<0.000381	<0.00100	<15.0	59.8	
BH-26	1/5/22	10	<0.000382	<0.00100	<15.0	23.2	
BH-27	1/17/22	3	<0.000383	<0.00101	21.3 J	5.88	
BH-28	1/17/22	3	0.00474	0.00885	23.7 J	3.37 J	
BH-29	1/17/22	14	<0.000383	<0.00100	16.1 J	6.71	
BH-30	1/17/22	14	<0.000386	<0.00101	22.1 J	25.2	
BH-31	1/17/22	14	<0.000386	<0.00101	23.2 J	19.6	
BH-32	1/17/22	14	0.000824 J	0.00271 J	15.9 J	9.66	
BH-33	1/17/22	14	<0.000384	0.00182 J	23.1 J	17.0	



Sample ID	Sample Date	Depth (ft bgs)	Benzene	BTEX	TPH		Chloride
			(mg/kg)	(mg/kg)	Total GRO/DRO/MRO (mg/kg)		
			10 mg/kg	50 mg/kg	100 mg/kg	600 mg/kg	
<b>Side Wall Confirmation Samples</b>							
SW-1	12/13/21	-	<0.000387	<0.00102	36.7 J	7.69	
SW-2	12/13/21	-	<0.000383	<0.00101	47.5 J	6.17	
SW-3	12/13/21	-	0.00112 J	0.00235 J	29.9 J	6.63	
SW-4	12/13/21	-	<0.000384	<0.00101	29.1 J	6.04	
SW-5	12/13/21	-	<0.000385	0.00137 J	34.7 J	<0.857	
SW-6	12/13/21	-	<0.000388	<0.00102	82.2	4.38 J	
SW-7	12/13/21	-	<0.000389	<0.00102	241	12.5	
SW-7	1/17/22	-	<0.000381	<0.00100	22.0 J	9.26 F1	
SW-8	1/17/22	-	<0.000388	<0.00102	19.7 J	8.5	
SW-9	1/4/22	-	<0.000383	<0.00100	79.9	16.7 F1	
SW-10	1/4/22	-	<0.000385	<0.00101	<15.0	30.9	
SW-11	1/4/22	-	<0.000385	0.00275 J	<15.0	2.85 J	
SW-12	1/4/22	-	<0.000381	0.00288 J	<15.0	3.94 J	
SW-13	1/4/22	-	<0.000388	<0.00102	<15.0	3.91 J	
SW-14	1/4/22	-	0.00128 J	0.00329 J	<15.0	3.46 J	
SW-15	1/4/22	-	0.00112 J	0.00204 J	<15.0	18.9	
SW-16	1/4/22	-	<0.000386	0.00399 J	<15.0	27.5	
SW-17	1/4/22	-	<0.000387	<0.00101	<15.0	46.5	
SW-18	1/4/22	-	<0.000385	<0.00101	77.2	11.7	
SW-19	1/4/22	-	<0.000384	<0.00101	59.3	15.3	
SW-20	1/4/22	-	<0.000389	<0.00102	<15.0	6.46	
SW-21	1/4/22	-	0.00103 J	0.00379 J	<15.0	14.5	
SW-22	1/4/22	-	<0.000383	0.00104 J	66.1	9.93	
SW-23	1/4/22	-	<0.000387	0.00267	<15.0	19.7	
SW-24	1/4/22	-	0.00136 J	0.00291 J	<15.0	11.4	
SW-25	1/4/22	-	<0.000381	<0.00100	<15.0	6.81	
SW-26	1/17/22	-	<0.000383 F1	<0.00101	23.3 J	7.69	
SW-27	1/17/22	-	<0.000381	<0.00100	18.7 J	7.99	
SW-28 14'-19'	1/27/22	-	<0.000381	<0.00100	30.0 J	13.1	
SW-29 14'-19'	1/27/22	-	<0.000388	0.0218	<15.0	53.2	
SW-30 14'-19'	1/27/22	-	<0.000383	0.00863	<15.0	13.4	
SW-31 14'-19'	1/27/22	-	<0.000385	0.00277 J	<15.0	13.6	
<b>Ramp Confirmation Samples</b>							
Ramp-1	1/4/22	-	<0.000383	0.00265 J	180	4.65 J	
Ramp-2	1/4/						

## Tables

**Table 1**  
**Summary of Soil Analytical Data**  
**Snapping Pumps**  
**Planis Pipeline, LP**  
**Eddy County, New Mexico**

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH			Chloride	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO(C6-C10)	DRO(C10-C28)	MRO (C28-C35)		
			10 mg/kg	--	--	--	50 mg/kg	--	--	--	100 mg/kg	600 mg/kg
Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC												
AH1-1'	10/14/2021	1	1.04	14.1	3.15	67.9	86.2	4,610 B	5,900 *+	708 B	11,200	16.1
AH1-3'	10/14/2021	3	<0.000389	<0.000461	<0.000571	<0.00102	<0.00102	18.4 J B	19.8 J	<15.0	38.2 J	
AH2-2'	10/14/2021	2	<0.000381	<0.000451	<0.000559	<0.00100	<0.00100	<15.0	242 *+	32.7 J B	275	13
AH2-3'	10/14/2021	3						15.6 J B	41.1 J	<14.9	56.7	
AH3-1'	10/14/2021	1	0.141	0.06402	0.137	82.0	68.6	3,550 B	6,060 *+	683 B	10,300	19.4
AH3-3'	10/14/2021	3	0.0153	0.0261	0.119	0.943	1.07	1,100 B	1,790	177	3,070	
AH3-5'	10/14/2021	5	0.006464 J	0.0183	0.00532	0.0813	0.1	21.6 J	73.6 B	<15.0	95.2	
AH4-1'	10/14/2021	1	0.243	0.0302	0.0161	25.4	25.7	1,480 B	3,560 *+	358 B	5,400	11.4
AH4-3'	10/14/2021	3	0.06273	0.0132	0.0237	0.128	0.167	18.6 J	849 B	<14.9	868	
Initial Assessment Samples												
BH-1	12/13/21	4	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	37.6 J B	18.8 J	<15.0	56.4	37
BH-2	12/13/21	4	0.000981 J	0.00107 J	<0.000570	<0.00102	0.00205 J	31.6 J B	<15.0	<15.0	31.6 J	9.17
BH-3	12/13/21	4	<0.000383	0.000864 J	<0.000563	<0.00101	0.00180 J	33.7 J B	<15.0	<15.0	33.7 J	226
BH-4	12/13/21	4	0.000745 J	<0.000454	<0.000563	0.00178 J	0.00253 J	32.4 J B	<15.0	<15.0	32.4 J	9.22
BH-5	12/13/21	4	<0.000386	0.00200	<0.000566	<0.00101	0.00270 J	45.4 J B	<15.0	<15.0	45.4 J	6.25
BH-6	12/13/21	4	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	29.4 J B	<15.0	<15.0	29.4 J	5.41
BH-7	12/13/21	4	<0.000385	<0.000456	<0.000565	<0.00101	<0.00101	39.6 J B	<15.0	<15.0	39.6 J	71.1
BH-8	12/13/21	3	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	36.5 J B	18.7 J	<15.0	55.2	6.02
BH-9	12/13/21	3	0.000399 J	0.00107 J	<0.000570	0.00217 J	0.00364 J	23.7 J B	<15.0	<15.0	23.7 J	15.6
BH-10	12/13/21	3	0.00110 J	<0.000453	<0.000562	<0.00100	0.00161 J	34.0 J B	<15.0	<15.0	34.0 J	7.98
BH-11	12/13/21	3	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	32.1 J B	<15.0	<15.0	32.1 J	8.69
BH-12	12/13/21	3	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	32.6 J B	<14.9	<14.9	32.6 J	5.76
BH-13	12/13/21	3	<0.000387	<0.000459	<0.000568	<0.00102	<0.00102	47.9 J B	<15.0	<15.0	47.9 J	4.92 J
BH-14	1/5/22	12	<0.000383	0.000469 J	<0.000562	<0.00100	<0.00100	22.9 J	85.9 *1	<15.0	106	12.9
BH-14A	1/27/22	19	<0.000384	<0.000455	<0.000564	0.00109 J	0.000109 J	<15.0	<15.0	<15.0	<15.0	44.1
BH-15	1/5/22	12	0.000625 J	0.000623 J	<0.000567	<0.00101	0.00217 J	<15.0	32.3 J *1	<15.0	32.3 J	7.38
BH-15A	1/27/22	19	<0.000389	0.000520 J	.000641 J	<0.00102	0.00186 J	<15.0	125 B	<15.0	125	9.2
BH-16	1/5/22	12	0.00153 J	0.0467	0.0889	0.57	0.709	36.2 J	570 *1	49.6 J	656	7.92
BH-16A	1/27/22	19	<0.000385	0.0129	0.0135	0.508	0.534	74.6	432 B	36.8 J	543	17.4
BH-17	1/5/22	12	0.00211	0.0357	0.0644	0.504	0.606	45.2 J	439 *1	42.7 J	527	5.96
BH-17A	1/27/22	19	2.10	5.81	2.88	45.0	55.8	2,970	4,770 B	435	8,180	15.8
BH-18	1/5/22	12	0.00143 J	0.0814	0.0862	0.713	0.882	59	1,000 *1	80	1,140	31.1

**Table 1**  
**Summary of Soil Analytical Data**  
**Snapping Pumps**  
**Planis Pipeline, LP**  
**Eddy County, New Mexico**

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH			Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO(C6-C10)	DRO(C10-C28)	MRO (C28-C35)	
			10 mg/kg	--	--	--	50 mg/kg	--	--	--	
BH-18A	1/27/22	19	<0.000389	<0.000461	<0.000571	<b>0.00126 J</b>	<b>0.00126 J</b>	<15.0	<15.0	<15.0	<15.0
BH-19	1/5/22	12	<0.000381	<b>0.00342</b>	<b>0.006679</b>	<b>0.01</b>	<b>0.0141</b>	<b>21.0 J</b>	<15.0	<15.0	<b>21.0 J</b>
BH-19A	1/27/22	19	<0.000383	<0.000454	<0.000536	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0
BH-20	1/5/22	10	<0.000384	<b>0.000575 J</b>	<0.000564	<b>0.00280 J</b>	<b>0.00337 J</b>	<15.0	<15.0	<15.0	<15.0
BH-21	1/5/22	10	<0.000389	<b>0.000847 J</b>	<b>0.000629 J</b>	<0.00102	<b>0.00148 J</b>	<b>30.7 J</b>	<15.0	<15.0	<b>30.7 J</b>
BH-22	1/5/22	10	<0.000383	<b>0.00120 J</b>	<0.000562	<b>0.00171 J</b>	<b>0.00291 J</b>	<b>15.4 J</b>	<15.0	<15.0	<b>15.4 J</b>
BH-23	1/5/22	10	<b>0.000403 J</b>	<b>0.000580 J</b>	<b>0.000591 J</b>	<0.00102	<b>0.00157 J</b>	<15.0	<15.0	<15.0	<15.0
BH-24	1/5/22	10	<b>0.00359</b>	<b>0.00245</b>	<b>0.000691 J</b>	<0.00101	<b>0.00673</b>	<15.0	<15.0	<15.0	<15.0
BH-25	1/5/22	10	<0.000381	<0.000451	<0.000559	<0.00100	<0.00100	<15.0	<15.0	<15.0	<15.0
BH-26	1/5/22	10	<0.000382	<0.000452	<0.000561	<0.00100	<0.00100	<15.0	<15.0	<15.0	<15.0
BH-27	1/17/22	3	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	<b>21.3 J</b>	<15.0 *1	<15.0	<b>21.3 J</b>
BH-28	1/17/22	3	<b>0.00474</b>	<b>0.00346</b>	<b>0.000648 J</b>	<0.00102	<b>0.00885</b>	<b>23.7 J</b>	<15.0 *1	<15.0	<b>23.7 J</b>
BH-29	1/17/22	14	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	<b>16.1 J</b>	<15.0 *1	<15.0	<b>16.1 J</b>
BH-30	1/17/22	14	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	<b>22.1 J</b>	<15.0 *1	<15.0	<b>22.1 J</b>
BH-31	1/17/22	14	<0.000386	<0.000457	<0.000566	<0.00101	<0.00101	<b>23.2 J</b>	<15.0 *1	<15.0	<b>23.2 J</b>
BH-32	1/17/22	14	<b>0.000824 J</b>	<b>0.000935 J</b>	<0.000561	<0.00100	<b>0.00271 J</b>	<b>15.9 J</b>	<15.0 *1	<15.0	<b>15.9 J</b>
BH-33	1/17/22	14	<0.000384	<b>0.00182 J</b>	<0.000564	<0.00101	<b>0.00182 J</b>	<b>23.1 J</b>	<15.0 *1	<15.0	<b>23.1 J</b>
<b>Side Wall Confirmation Samples</b>											
SW-1	12/13/21	-	<0.000387	<0.000459	<0.000568	<0.00102	<0.00102	<b>36.7 J B</b>	<15.0	<15.0	<b>36.7 J</b>
SW-2	12/13/21	-	<0.000383	<0.000454	<0.000563	<0.00101	<0.00101	<b>29.6 J B</b>	<b>17.9 J</b>	<15.0	<b>47.5 J</b>
SW-3	12/13/21	-	<b>0.00112 J</b>	<0.000455	<0.000564	<b>0.00123 J</b>	<b>0.00235 J</b>	<b>29.9 J B</b>	<15.0	<15.0	<b>29.9 J</b>
SW-4	12/13/21	-	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<b>29.1 J B</b>	<15.0	<15.0	<b>29.1 J</b>
SW-5	12/13/21	-	<0.000385	<b>0.00137 J</b>	<0.000565	<0.00101	<b>0.00137 J</b>	<b>34.7 J B</b>	<15.0	<15.0	<b>34.7 J</b>
SW-6	12/13/21	-	<0.000388	<0.000460	<0.000570	<0.00102	<0.00102	<b>38.6 J B</b>	<b>43.6 J</b>	<15.0	<b>82.2</b>
SW-7	12/13/21	-	<0.000389	<0.000461	<0.000571	<0.00102	<0.00102	<b>39.1 J B</b>	<b>202</b>	<15.0	<b>241</b>
SW-7	1/17/22	-	<0.000381	<0.000451	<0.000559	<0.00100	<0.00100	<b>22.0 J F1</b>	<15.0 F1 *1	<15.0	<b>22.0 J</b>
SW-8	12/13/21	-	<0.000381	<b>0.00135 J</b>	<b>0.000727 J</b>	<b>0.00357 J</b>	<b>0.00565</b>	<b>22.9 J</b>	<b>95.5</b>	<15.0	<b>118</b>
SW-8	1/17/22	-	<0.000388	<0.000460	<0.000570	<0.00102	<0.00102	<b>19.7 J</b>	<15.0 *1	<15.0	<b>19.7 J</b>
SW-9	1/4/22	-	<0.000383	<0.000453	<0.000562	<0.00100	<0.00100	<b>19.0 J*1</b>	<b>60.9 *1</b>	<15.0	<b>79.9</b>
SW-10	1/4/22	-	<0.000385	<0.000456	<0.000565	<0.00101	<0.00101	<15.0	<15.0	<15.0	<b>30.9</b>
SW-11	1/4/22	-	<0.000385	<0.000456	<0.000565	<b>0.00275 J</b>	<b>0.00275 J</b>	<15.0	<15.0	<15.0	<b>2.85 J</b>
SW-12	1/4/22	-	<0.000381	<b>0.00121 J</b>	<0.000559	<b>0.00167 J</b>	<b>0.00288 J</b>	<15.0	<15.0	<15.0	<b>3.94 J</b>
SW-13	1/4/22	-	<0.000388	<0.000460	<0.000570	<0.00102	<0.00102	<15.0	<15.0	<15.0	<b>3.91 J</b>

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**Summary of Soil Analytical Data**  
**Snapping Pumps**  
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Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH			Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO(C6-C10)	DRO(C10-C28)	MRO (C28-C35)	
			10 mg/kg	--	--	--	50 mg/kg	--	--	--	
Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC											
SW-14	1/4/22	-	<b>0.00128 J</b>	<0.000455	<b>0.000775 J</b>	<b>0.00123 J</b>	<b>0.00329 J</b>	<15.0	<15.0	<15.0	<15.0
SW-15	1/4/22	-	<b>0.00112 J</b>	<b>0.000924 J</b>	<0.000567	<0.00101	<b>0.00204 J</b>	<15.0	<15.0	<15.0	<15.0
SW-16	1/4/22	-	<0.000386	<b>0.00116 J</b>	<0.000566	<b>0.00283 J</b>	<b>0.00399 J</b>	<15.0	<15.0	<15.0	<15.0
SW-17	1/4/22	-	<0.000387	<0.000458	<0.000567	<0.00101	<0.00101	<15.0	<15.0	<15.0	<15.0
SW-18	1/4/22	-	<0.000385	<0.000456	<0.000565	<0.00101	<0.00101	<15.0	<b>77.2 *1</b>	<15.0	<b>77.2</b>
SW-19	1/4/22	-	<0.000384	<0.000455	<0.000564	<0.00101	<0.00101	<15.0	<b>59.3 *1</b>	<15.0	<b>59.3</b>
SW-20	1/4/22	-	<0.000389	<0.000461	<0.000571	<0.00102	<0.00102	<15.0	<15.0	<15.0	<15.0
SW-21	1/4/22	-	<b>0.00103 J</b>	<b>0.00178 J</b>	<0.000562	<0.00100	<b>0.00379 J</b>	<15.0	<15.0	<15.0	<15.0
SW-22	1/4/22	-	<0.000383	<0.000453	<0.000562	<b>0.00104 J</b>	<b>0.00104 J</b>	<15.0	<b>66.1 *1</b>	<15.0	<b>66.1</b>
SW-23	1/4/22	-	<0.000387	<b>0.00105 J</b>	<0.000568	<b>0.00162</b>	<b>0.00267</b>	<15.0	<15.0	<15.0	<15.0
SW-24	1/4/22	-	<b>0.00136 J</b>	<b>0.00103 J</b>	<0.000566	<0.00101	<b>0.00291 J</b>	<15.0	<15.0	<15.0	<15.0
SW-25	1/4/22	-	<0.000381	<0.000451	<0.000559	<0.00100	<0.00100	<15.0	<15.0	<15.0	<15.0
SW-26	1/4/22	-	<b>0.00117 J</b>	<0.000452	<0.000561	<b>0.00178 J</b>	<b>0.00295 J</b>	<15.0	<15.0	<15.0	<15.0
SW-26	1/17/22	-	<0.000383 F1	<0.000454 F1	<0.000563 F2 F1	<0.00101 F1	<0.00101	<b>23.3 J</b>	<15.0 *1	<15.0	<b>23.3 J</b>
SW-27	1/17/22	-	<0.000381	<0.000451	<0.000559	<0.00100	<0.00100	<b>18.7 J</b>	<15.0 *1	<15.0	<b>18.7 J</b>
SW-28 14'-19'	1/27/22	-	<0.000381	<0.000451	<0.000559	<0.00100	<0.00100	<15.0	<b>30.0 J</b>	<15.0	<b>30.0 J</b>
SW-29 14'-19'	1/27/22	-	<0.000388	<b>0.00657</b>	<b>0.00102 J</b>	<b>0.0142</b>	<b>0.0218</b>	<15.0	<15.0	<15.0	<15.0
SW-30 14'-19'	1/27/22	-	<0.000383	<b>0.00324</b>	<0.000562	<b>0.00539</b>	<b>0.00863</b>	<15.0	<15.0	<15.0	<15.0
SW-31 14'-19'	1/27/22	-	<0.000385	<0.000456	<0.000565	<b>0.00277 J</b>	<b>0.00277 J</b>	<15.0	<15.0	<15.0	<15.0
<b>Ramp Confirmation Samples</b>											
Ramp 1	1/4/22	-	<0.000383	<b>0.00119 J</b>	<0.000563	<b>0.00146 J</b>	<b>0.00265 J</b>	<15.0	<b>180 *1</b>	<15.0	<b>180</b>
Ramp 2	1/4/22	-	<b>0.000513 J</b>	<b>0.000989 J</b>	<0.000568	<b>0.00140 J</b>	<b>0.00290 J</b>	<14.9	<b>170 *1</b>	<14.9	<b>170</b>
Ramp 3	1/4/22	-	<0.000389	<b>0.00131 J</b>	<0.000571	<0.00102	<b>0.00134 J</b>	<15.0	<b>166</b>	<15.0	<b>166</b>
Ramp 4	1/4/22	-	<0.000383	<b>0.000616 J</b>	<0.000562	<0.00100	<0.00100	<15.0	<b>129</b>	<15.0	<b>129</b>
Ramp 5	1/4/22	-	<0.000383	<b>0.000590 J</b>	<0.000563	<0.00101	<0.00101	<15.0	<b>137</b>	<15.0	<b>137</b>
Ramp 6	1/4/22	-	<0.000388	<0.000460	<0.000570	<0.00102	<0.00102	<15.0	<b>76.7</b>	<15.0	<b>76.7</b>
<b>Test Pit Samples</b>											
TP1-26	2/9/22	26	<b>0.0769 J</b>	5.46	2.52	30.7	38.7569	1,480	2,350 B	<15.0 U	<b>3,830</b>
<b>Soil Pile Samples</b>											
SP-1	2/9/22	-	<b>0.00578</b>	0.125	<b>0.0245</b>	<b>0.405</b>	<b>0.559</b>	<b>27.0 J</b>	<b>1,680 B</b>	<15.0 U	<b>1,707</b>
SP-2	2/9/22	-	<b>0.000476 J</b>	<b>0.0209</b>	<b>0.00195 J</b>	<b>0.0506</b>	<b>0.0736</b>	<b>29.4 J</b>	<b>82.2 B</b>	<15.0 U	<b>112</b>
SP-3	2/9/22	-	<0.000381 U	0.00623	<b>0.000995 J</b>	<b>0.0162</b>	<b>0.0233</b>	<b>17.6 J</b>	<15.0 U	<15.0 U	<b>17.6 J</b>

**Table 1**  
**Summary of Soil Analytical Data**  
**Snapping Pumps**  
**Planis Pipeline, LP**  
**Eddy County, New Mexico**

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH			Chloride (mg/kg)
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO(C6-C10)	DRO(C10-C28)	MRO (C28-C35)	
			10 mg/kg	--	--	--	50 mg/kg	--	--	--	
Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC											

**Notes:**

1. Values reported in mg/kg
2. < = Value Less than Reporting Limit (RL)
3. Bold Indicates Analyte Detected
4. BTEX analyses by EPA Method SW 8021B
5. TPH analyses by EPA Method SW 8015 Mod
6. GRO/DRO/MRO = Gasoline/Diesel/Motor Oil
7. Yellow shaded cells indicate analytical samples that exceed the NMOC 19.15.29.12 Table 1 Closure Criteria for the Site.
8. J - the target analytes was positively identified below the quantitation limit and above the detection/reporting limit
9. - = not defined
10. B - Compound was found in the blank and sample
11. \*+ indicates LCS and/or LCSD is outside acceptance limits, high biased
12. \*1 - LCS/LCSD RPD exceeds control limits.
13. F1 - MS and/or MSD recovery exceeds control limits.

B-BH-2 Sample Point Excavated

## Attachment A Site Characterization Documentation

# Plains Snapping Pump

KARST Potential

## Legend

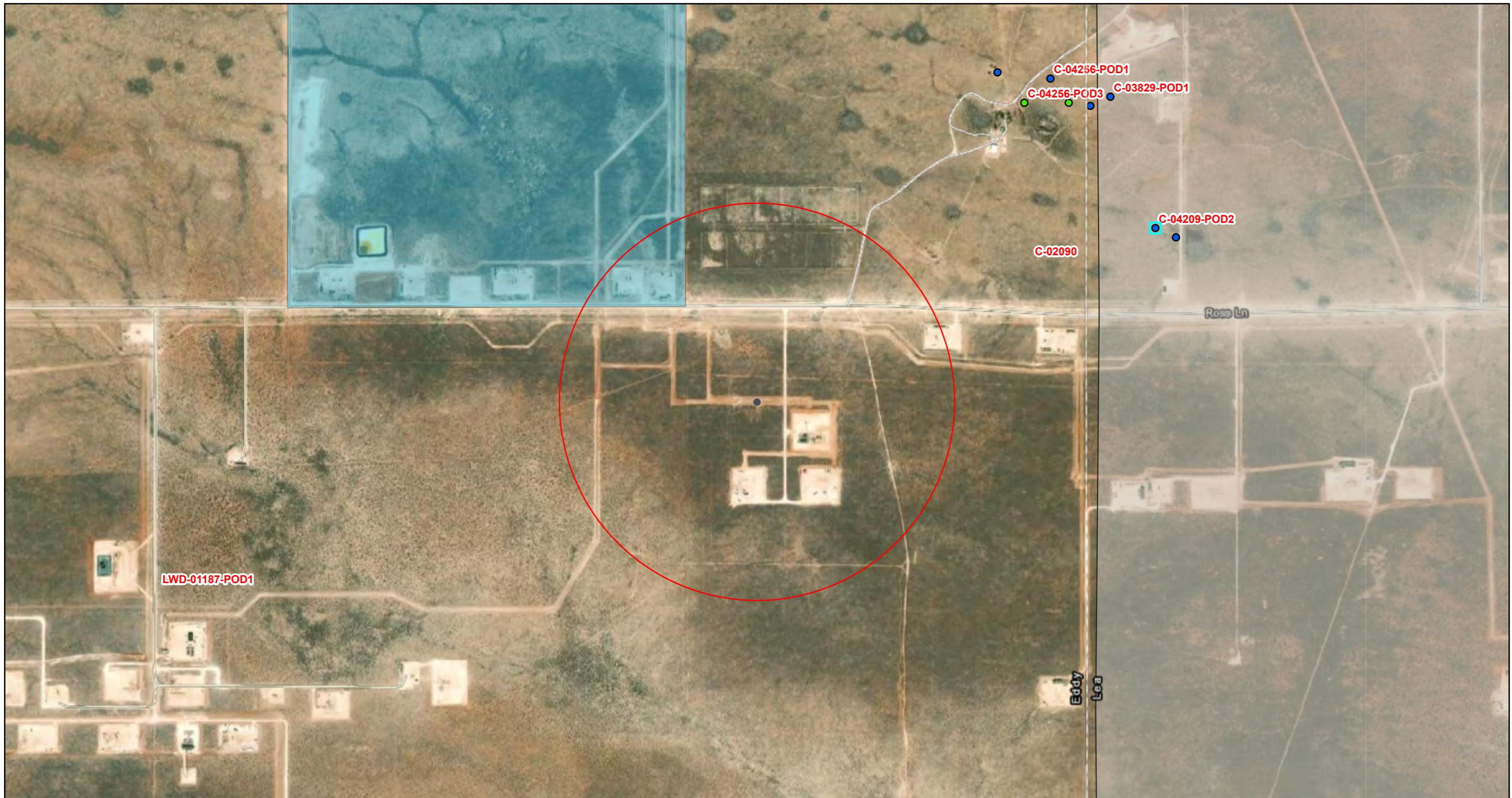
- High
- Low
- Medium
- Snapping Pump Release Site

Snapping Pump Release Site

N

700 ft

## OSE PUBLIC PRINT



10/22/2021, 9:33:32 AM

1:18,056

GIS WATERS PODs  OSE District Boundary  New Mexico State Trust Lands

0 0.17 0.35 0.7 mi  
0 0.3 0.6 1.2 km

- Active
- Water Right Regulations

- Both Estates

- Pending
- Closure Area

- SiteBoundaries

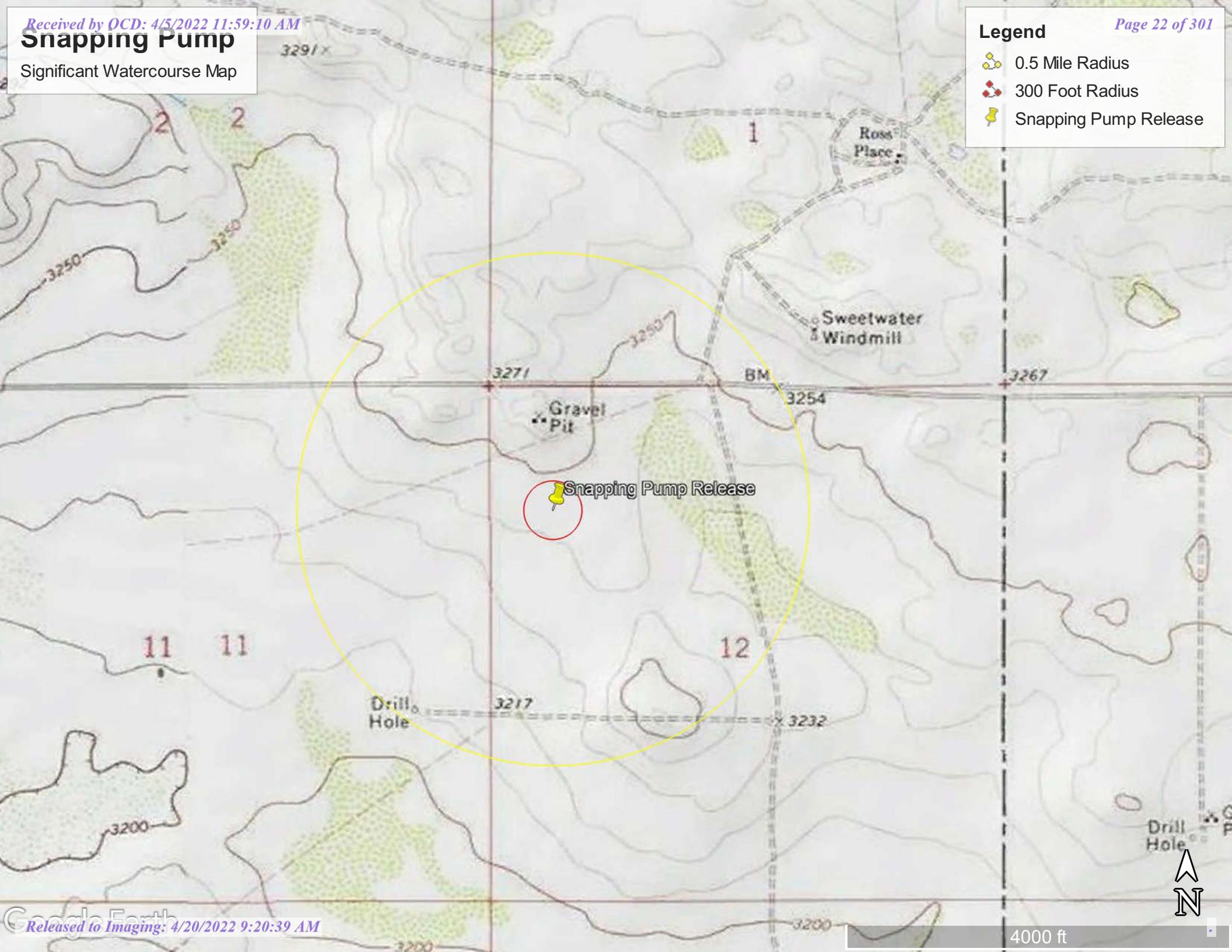
Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar

# Snapping Pump

Significant Watercourse Map

## Legend

- 0.5 Mile Radius
- 300 Foot Radius
- Snapping Pump Release





U.S. Fish and Wildlife Service

# National Wetlands Inventory

Released to Imaging: 4/20/2022 9:20:39 AM

## Plains Snapping Pump Release Site



March 8, 2022

### Wetlands

<span style="background-color: #0072BC; border: 1px solid black; display: inline-block; width: 15px; height: 15px;"></span>	Estuarine and Marine Deepwater
<span style="background-color: #80CBC4; border: 1px solid black; display: inline-block; width: 15px; height: 15px;"></span>	Estuarine and Marine Wetland

<span style="background-color: #9E9AC8; border: 1px solid black; display: inline-block; width: 15px; height: 15px;"></span>	Freshwater Emergent Wetland
<span style="background-color: #C8E6C9; border: 1px solid black; display: inline-block; width: 15px; height: 15px;"></span>	Freshwater Forested/Shrub Wetland
<span style="background-color: #9E9AC8; border: 1px solid black; display: inline-block; width: 15px; height: 15px;"></span>	Freshwater Pond
<span style="background-color: #6A8DAA; border: 1px solid black; display: inline-block; width: 15px; height: 15px;"></span>	Lake
<span style="background-color: #C8A88D; border: 1px solid black; display: inline-block; width: 15px; height: 15px;"></span>	Other
<span style="background-color: #4DB6AC; border: 1px solid black; display: inline-block; width: 15px; height: 15px;"></span>	Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

# National Flood Hazard Layer FIRMette



Released to Imaging: 4/20/2022 9:20:39 AM  
3°44'33"W 32°3'56"N

Received by OCD: 4/20/2022 11:59:10 AM



## Legend

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

### SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE)  
Zone A, V, A99
- With BFE or Depth Zone AE, AO, AH, VE, A
- Regulatory Floodway

- 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 Zone X

- Future Conditions 1% Annual Chance Flood Hazard Zone X
- Area with Reduced Flood Risk due to Levee. See Notes. Zone X
- Area with Flood Risk due to Levee Zone X

### 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 Zone X

### OTHER AREAS

- NO SCREEN Area of Minimal Flood Hazard Zone X
- Effective LOMRs
- Area of Undetermined Flood Hazard Zone D

### GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

- Cross Sections with 1% Annual Chance  
20.2
- Water Surface Elevation  
17.5

- Coastal Transect

- Base Flood Elevation Line (BFE)

- Limit of Study

- Jurisdiction Boundary

- Coastal Transect Baseline

- Profile Baseline

- Hydrographic Feature

### OTHER FEATURES

- 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.

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 3/8/2022 at 11:16 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.

## Attachment B Photographic Log



Photo 1 Excavation



Photo 2 – Excavation



**Site Photograph  
Plains Snapping Pump  
Release Site.**

GHD | Report for Plains | 12566934



Photo 3 – Excavation



Photo 4 – Excavation



## Site Photograph Plains Snapping Pump Release Site.

GHD | Report for Plains | 12566934

## Attachment C Laboratory Analytical Reports and Chain-of-Custody Documentation



Environment Testing  
America



## ANALYTICAL REPORT

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

Laboratory Job ID: 880-7292-1

Laboratory Sample Delivery Group: Eddy County NM  
Client Project/Site: Snapping Pump Site - 12565619  
Revision: 1

For:  
GHD Services Inc.  
2135 South Loop 250 West  
Midland, Texas 79703

Attn: Becky Haskell

*Debbie Simmons*

Authorized for release by:  
3/11/2022 5:40:51 PM

Debbie Simmons, Project Manager  
(832)986-6768  
[debbie.simmons@eurofinset.com](mailto:debbie.simmons@eurofinset.com)

### LINKS

Review your project  
results through

**TotalAccess**

Have a Question?

Ask  
The  
Expert

Visit us at:

[www.eurofinsus.com/Env](http://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.

Client: GHD Services Inc.  
 Project/Site: Snapping Pump Site - 12565619

Laboratory Job ID: 880-7292-1  
 SDG: Eddy County NM

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## Definitions/Glossary

Client: GHD Services Inc.  
Project/Site: Snapping Pump Site - 12565619

Job ID: 880-7292-1  
SDG: Eddy County NM

### Qualifiers

#### GC VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

#### GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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.**

¤	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

Eurofins Midland

## Definitions/Glossary

Client: GHD Services Inc.

Project/Site: Snapping Pump Site - 12565619

Job ID: 880-7292-1

SDG: Eddy County NM

### Glossary (Continued)

**Abbreviation****These commonly used abbreviations may or may not be present in this report.**

TEF

Toxicity Equivalent Factor (Dioxin)

TEQ

Toxicity Equivalent Quotient (Dioxin)

TNTC

Too Numerous To Count

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Eurofins Midland

## Case Narrative

Client: GHD Services Inc.  
Project/Site: Snapping Pump Site - 12565619

Job ID: 880-7292-1  
SDG: Eddy County NM

### **Job ID: 880-7292-1**

#### **Laboratory: Eurofins Midland**

##### **Narrative**

##### **Job Narrative 880-7292-1**

##### **Revision**

The report being provided is a revision of the original report sent on 11/1/2021. The report (revision 1) is being revised due to: one sample (AH4-1') the total xylenes not calculating correctly. Sent back to the lab, report revised to remove Total Xylenes (reporting m,p and o-xylenes individually).

##### **Receipt**

The samples were received on 10/18/2021 9:45 AM. 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 time was 2.2°C

##### **GC VOA**

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-10005 and analytical batch 880-10194 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 samples were outside control limits: (MB 880-10004/5-A) and (MB 880-10005/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-10011 and analytical batch 880-10332 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: AH1 - 1' (880-7292-1), AH3 - 1' (880-7292-5) and AH4 - 1' (880-7292-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-10273/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-10593 and analytical batch 880-10594 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 samples were outside control limits: AH3 - 3' (880-7292-6) and AH4 - 3' (880-7292-9). 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.

##### **GC Semi VOA**

Method 8015MOD\_NM: The method blank for preparation batch 880-10137 and analytical batch 880-10165 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD\_NM: The method blank for preparation batch 880-10766 and analytical batch 880-10808 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD\_NM: The method blank for preparation batch 880-10910 and analytical batch 880-10885 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

**Case Narrative**

Client: GHD Services Inc.  
Project/Site: Snapping Pump Site - 12565619

Job ID: 880-7292-1  
SDG: Eddy County NM

**Job ID: 880-7292-1 (Continued)****Laboratory: Eurofins Midland (Continued)****HPLC/IC**

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

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

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**Client Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pump Site - 12565619

Job ID: 880-7292-1  
 SDG: Eddy County NM

**Client Sample ID: AH1 - 1'**  
 Date Collected: 10/14/21 11:00  
 Date Received: 10/18/21 09:45

**Lab Sample ID: 880-7292-1**  
 Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.04		0.199	0.0383	mg/Kg		10/22/21 16:35	10/25/21 14:15	100
Toluene	14.1		0.199	0.0453	mg/Kg		10/22/21 16:35	10/25/21 14:15	100
Ethylbenzene	3.15		0.199	0.0562	mg/Kg		10/22/21 16:35	10/25/21 14:15	100
m-Xylene & p-Xylene	55.7		0.398	0.100	mg/Kg		10/22/21 16:35	10/25/21 14:15	100
o-Xylene	12.2		0.199	0.0342	mg/Kg		10/22/21 16:35	10/25/21 14:15	100
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	253	S1+	70 - 130				10/22/21 16:35	10/25/21 14:15	100
1,4-Difluorobenzene (Surr)	89		70 - 130				10/22/21 16:35	10/25/21 14:15	100

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	86.2		0.398	0.100	mg/Kg			10/25/21 15:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	11200		50.0	15.0	mg/Kg			10/25/21 19:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	4610	B	50.0	15.0	mg/Kg		10/21/21 15:23	10/22/21 16:18	1
Diesel Range Organics (Over C10-C28)	5900	*+	50.0	15.0	mg/Kg		10/21/21 15:23	10/22/21 16:18	1
Oil Range Organics (Over C28-C36)	708	B	50.0	15.0	mg/Kg		10/21/21 15:23	10/22/21 16:18	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane							10/21/21 15:23	10/22/21 16:18	1
o-Terphenyl							10/21/21 15:23	10/22/21 16:18	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.1		4.98	0.855	mg/Kg			10/23/21 12:21	1

**Client Sample ID: AH1 - 3'****Lab Sample ID: 880-7292-2**

Date Collected: 10/14/21 11:05

Matrix: Solid

Date Received: 10/18/21 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00202	0.000389	mg/Kg		10/26/21 09:12	10/27/21 06:52	1
Toluene	<0.000461	U	0.00202	0.000461	mg/Kg		10/26/21 09:12	10/27/21 06:52	1
Ethylbenzene	<0.000571	U	0.00202	0.000571	mg/Kg		10/26/21 09:12	10/27/21 06:52	1
m-Xylene & p-Xylene	<0.00102	U	0.00404	0.00102	mg/Kg		10/26/21 09:12	10/27/21 06:52	1
o-Xylene	0.000372	J	0.00202	0.000347	mg/Kg		10/26/21 09:12	10/27/21 06:52	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	121		70 - 130				10/26/21 09:12	10/27/21 06:52	1
1,4-Difluorobenzene (Surr)	88		70 - 130				10/26/21 09:12	10/27/21 06:52	1

Eurofins Midland

**Client Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pump Site - 12565619

Job ID: 880-7292-1  
 SDG: Eddy County NM

**Client Sample ID: AH1 - 3'**  
 Date Collected: 10/14/21 11:05  
 Date Received: 10/18/21 09:45

**Lab Sample ID: 880-7292-2**  
 Matrix: Solid

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00404	0.00102	mg/Kg			11/01/21 13:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	38.2	J	50.0	15.0	mg/Kg			10/29/21 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	18.4	J B	50.0	15.0	mg/Kg		10/27/21 16:03	10/28/21 13:32	1
Diesel Range Organics (Over C10-C28)	19.8	J	50.0	15.0	mg/Kg		10/27/21 16:03	10/28/21 13:32	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		10/27/21 16:03	10/28/21 13:32	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	119		70 - 130				10/27/21 16:03	10/28/21 13:32	1
<i>o</i> -Terphenyl	116		70 - 130				10/27/21 16:03	10/28/21 13:32	1

**Client Sample ID: AH2 - 2'****Lab Sample ID: 880-7292-3**

Date Collected: 10/14/21 11:20  
 Date Received: 10/18/21 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg		10/20/21 14:16	10/24/21 16:03	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		10/20/21 14:16	10/24/21 16:03	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		10/20/21 14:16	10/24/21 16:03	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		10/20/21 14:16	10/24/21 16:03	1
<i>o</i> -Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		10/20/21 14:16	10/24/21 16:03	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	102		70 - 130				10/20/21 14:16	10/24/21 16:03	1
1,4-Difluorobenzene (Surr)	113		70 - 130				10/20/21 14:16	10/24/21 16:03	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00396	0.00100	mg/Kg			10/25/21 15:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	275		49.9	15.0	mg/Kg			10/25/21 19:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		10/21/21 15:23	10/22/21 16:39	1
Diesel Range Organics (Over C10-C28)	242	*+	49.9	15.0	mg/Kg		10/21/21 15:23	10/22/21 16:39	1
Oil Range Organics (Over C28-C36)	32.7	J B	49.9	15.0	mg/Kg		10/21/21 15:23	10/22/21 16:39	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane							10/21/21 15:23	10/22/21 16:39	1

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**Client Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pump Site - 12565619

Job ID: 880-7292-1  
 SDG: Eddy County NM

**Client Sample ID: AH2 - 2'**  
 Date Collected: 10/14/21 11:20  
 Date Received: 10/18/21 09:45

**Lab Sample ID: 880-7292-3**  
 Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>				10/21/21 15:23	10/22/21 16:39	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.7		4.95	0.850	mg/Kg	D		10/23/21 12:28	1

**Client Sample ID: AH2 - 3'**  
 Date Collected: 10/14/21 11:25  
 Date Received: 10/18/21 09:45

**Lab Sample ID: 880-7292-4**  
 Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	56.7		49.8	14.9	mg/Kg	D		10/29/21 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	15.6	J B	49.8	14.9	mg/Kg	D	10/27/21 16:03	10/28/21 13:54	1
Diesel Range Organics (Over C10-C28)	41.1	J	49.8	14.9	mg/Kg		10/27/21 16:03	10/28/21 13:54	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		10/27/21 16:03	10/28/21 13:54	1

**Client Sample ID: AH3 - 1'**

**Lab Sample ID: 880-7292-5**  
 Matrix: Solid

Date Collected: 10/14/21 11:55  
 Date Received: 10/18/21 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.141		0.00198	0.000381	mg/Kg	D	10/20/21 14:16	10/24/21 16:24	1
Toluene	0.00402		0.00198	0.000451	mg/Kg		10/20/21 14:16	10/24/21 16:24	1
Ethylbenzene	0.137		0.00198	0.000559	mg/Kg		10/20/21 14:16	10/24/21 16:24	1
m-Xylene & p-Xylene	68.1		0.403	0.102	mg/Kg		10/22/21 16:35	10/25/21 14:43	100
<i>o-Xylene</i>	0.201		0.00198	0.000341	mg/Kg		10/20/21 14:16	10/24/21 16:24	1

**Surrogate**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130	10/20/21 14:16	10/24/21 16:24	1
1,4-Difluorobenzene (Surr)	51	S1-	70 - 130	10/20/21 14:16	10/24/21 16:24	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	68.6		0.403	0.102	mg/Kg	D		10/25/21 15:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	10300		49.9	15.0	mg/Kg	D		10/25/21 19:23	1

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# Client Sample Results

Client: GHD Services Inc.  
Project/Site: Snapping Pump Site - 12565619

Job ID: 880-7292-1  
SDG: Eddy County NM

**Client Sample ID: AH3 - 1'**  
Date Collected: 10/14/21 11:55  
Date Received: 10/18/21 09:45

**Lab Sample ID: 880-7292-5**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	3550	B	49.9	15.0	mg/Kg		10/21/21 15:23	10/22/21 17:00	1
Diesel Range Organics (Over C10-C28)	6060	*+	49.9	15.0	mg/Kg		10/21/21 15:23	10/22/21 17:00	1
OII Range Organics (Over C28-C36)	683	B	49.9	15.0	mg/Kg		10/21/21 15:23	10/22/21 17:00	1

## Surrogate %Recovery Qualifier Limits

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane				10/21/21 15:23	10/22/21 17:00	1
o-Terphenyl				10/21/21 15:23	10/22/21 17:00	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.4		5.04	0.865	mg/Kg			10/23/21 12:35	1

**Client Sample ID: AH3 - 3'**

Date Collected: 10/14/21 12:00  
Date Received: 10/18/21 09:45

**Lab Sample ID: 880-7292-6**

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0153		0.00200	0.000386	mg/Kg		10/26/21 09:12	10/27/21 07:12	1
Toluene	0.0261		0.00200	0.000457	mg/Kg		10/26/21 09:12	10/27/21 07:12	1
Ethylbenzene	0.119		0.00200	0.000566	mg/Kg		10/26/21 09:12	10/27/21 07:12	1
m-Xylene & p-Xylene	0.735		0.00401	0.00101	mg/Kg		10/26/21 09:12	10/27/21 07:12	1
o-Xylene	0.178		0.00200	0.000345	mg/Kg		10/26/21 09:12	10/27/21 07:12	1

## Surrogate %Recovery Qualifier Limits

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	10/26/21 09:12	10/27/21 07:12	1
1,4-Difluorobenzene (Surr)	66	S1-	70 - 130	10/26/21 09:12	10/27/21 07:12	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	1.07		0.00401	0.00101	mg/Kg			11/01/21 13:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3070		50.0	15.0	mg/Kg			10/29/21 13:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1100	B	50.0	15.0	mg/Kg		10/27/21 16:03	10/28/21 14:21	1
Diesel Range Organics (Over C10-C28)	1790		50.0	15.0	mg/Kg		10/27/21 16:03	10/28/21 14:21	1
OII Range Organics (Over C28-C36)	177		50.0	15.0	mg/Kg		10/27/21 16:03	10/28/21 14:21	1

## Surrogate %Recovery Qualifier Limits

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	10/27/21 16:03	10/28/21 14:21	1
o-Terphenyl	82		70 - 130	10/27/21 16:03	10/28/21 14:21	1

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**Client Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pump Site - 12565619

Job ID: 880-7292-1  
 SDG: Eddy County NM

**Client Sample ID: AH3 - 5'**  
 Date Collected: 10/14/21 12:05  
 Date Received: 10/18/21 09:45

**Lab Sample ID: 880-7292-7**  
 Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000464	J	0.00198	0.000381	mg/Kg		10/20/21 14:16	10/24/21 16:45	1
Toluene	0.0183		0.00198	0.000451	mg/Kg		10/20/21 14:16	10/24/21 16:45	1
Ethylbenzene	0.00532		0.00198	0.000559	mg/Kg		10/20/21 14:16	10/24/21 16:45	1
m-Xylene & p-Xylene	0.0640		0.00396	0.00100	mg/Kg		10/20/21 14:16	10/24/21 16:45	1
o-Xylene	0.0173		0.00198	0.000341	mg/Kg		10/20/21 14:16	10/24/21 16:45	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	111		70 - 130				10/20/21 14:16	10/24/21 16:45	1
1,4-Difluorobenzene (Surr)	94		70 - 130				10/20/21 14:16	10/24/21 16:45	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.105		0.00396	0.00100	mg/Kg			11/01/21 13:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	95.2		50.0	15.0	mg/Kg			11/01/21 12:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.6	J	50.0	15.0	mg/Kg		10/28/21 09:34	10/30/21 02:41	1
Diesel Range Organics (Over C10-C28)	73.6	B	50.0	15.0	mg/Kg		10/28/21 09:34	10/30/21 02:41	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		10/28/21 09:34	10/30/21 02:41	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	98		70 - 130				10/28/21 09:34	10/30/21 02:41	1
o-Terphenyl	108		70 - 130				10/28/21 09:34	10/30/21 02:41	1

**Client Sample ID: AH4 - 1'****Lab Sample ID: 880-7292-8**

Date Collected: 10/14/21 12:40  
 Date Received: 10/18/21 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.243		0.00198	0.000381	mg/Kg		10/20/21 14:01	10/25/21 00:19	1
Toluene	0.0302		0.00198	0.000451	mg/Kg		10/20/21 14:01	10/25/21 00:19	1
Ethylbenzene	0.0161		0.00198	0.000559	mg/Kg		10/20/21 14:01	10/25/21 00:19	1
m-Xylene & p-Xylene	25.3		0.402	0.102	mg/Kg		10/22/21 16:35	10/25/21 15:10	100
o-Xylene	0.0628		0.00198	0.000341	mg/Kg		10/20/21 14:01	10/25/21 00:19	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	75		70 - 130				10/20/21 14:01	10/25/21 00:19	1
1,4-Difluorobenzene (Surr)	114		70 - 130				10/20/21 14:01	10/25/21 00:19	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	25.7		0.402	0.102	mg/Kg			10/25/21 15:44	1

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# Client Sample Results

Client: GHD Services Inc.  
Project/Site: Snapping Pump Site - 12565619

Job ID: 880-7292-1  
SDG: Eddy County NM

**Client Sample ID: AH4 - 1'**  
Date Collected: 10/14/21 12:40  
Date Received: 10/18/21 09:45

**Lab Sample ID: 880-7292-8**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	5400		49.9	15.0	mg/Kg			10/25/21 19:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1480	B	49.9	15.0	mg/Kg		10/21/21 15:23	10/22/21 17:21	1
Diesel Range Organics (Over C10-C28)	3560	*+	49.9	15.0	mg/Kg		10/21/21 15:23	10/22/21 17:21	1
Oil Range Organics (Over C28-C36)	358	B	49.9	15.0	mg/Kg		10/21/21 15:23	10/22/21 17:21	1

## Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane				10/21/21 15:23	10/22/21 17:21	1
o-Terphenyl				10/21/21 15:23	10/22/21 17:21	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.4		4.97	0.853	mg/Kg			10/23/21 12:43	1

## Client Sample ID: AH4 - 3'

Date Collected: 10/14/21 12:45  
Date Received: 10/18/21 09:45

**Lab Sample ID: 880-7292-9**

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00273		0.00200	0.000386	mg/Kg		10/26/21 09:12	10/27/21 07:33	1
Toluene	0.0132		0.00200	0.000457	mg/Kg		10/26/21 09:12	10/27/21 07:33	1
Ethylbenzene	0.0237		0.00200	0.000566	mg/Kg		10/26/21 09:12	10/27/21 07:33	1
m-Xylene & p-Xylene	0.105		0.00401	0.00101	mg/Kg		10/26/21 09:12	10/27/21 07:33	1
o-Xylene	0.0225		0.00200	0.000345	mg/Kg		10/26/21 09:12	10/27/21 07:33	1

## Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surf)	175	S1+	70 - 130	10/26/21 09:12	10/27/21 07:33	1
1,4-Difluorobenzene (Surf)	107		70 - 130	10/26/21 09:12	10/27/21 07:33	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.167		0.00401	0.00101	mg/Kg			11/01/21 13:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	868		49.8	14.9	mg/Kg			11/01/21 12:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	18.6	J	49.8	14.9	mg/Kg		10/28/21 09:34	10/30/21 03:02	1
Diesel Range Organics (Over C10-C28)	849	B	49.8	14.9	mg/Kg		10/28/21 09:34	10/30/21 03:02	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		10/28/21 09:34	10/30/21 03:02	1

## Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	10/28/21 09:34	10/30/21 03:02	1

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**Client Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pump Site - 12565619

Job ID: 880-7292-1  
 SDG: Eddy County NM

**Client Sample ID: AH4 - 3'**  
**Date Collected: 10/14/21 12:45**  
**Date Received: 10/18/21 09:45**

**Lab Sample ID: 880-7292-9**  
**Matrix: Solid**

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	97		70 - 130	10/28/21 09:34	10/30/21 03:02	1

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

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**Surrogate Summary**

Client: GHD Services Inc.  
 Project/Site: Snapping Pump Site - 12565619

Job ID: 880-7292-1  
 SDG: Eddy County NM

**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)	
880-7292-1	AH1 - 1'	253 S1+	89	
880-7292-2	AH1 - 3'	121	88	
880-7292-3	AH2 - 2'	102	113	
880-7292-5	AH3 - 1'	76	51 S1-	
880-7292-6	AH3 - 3'	122	66 S1-	
880-7292-7	AH3 - 5'	111	94	
880-7292-8	AH4 - 1'	75	114	
880-7292-9	AH4 - 3'	175 S1+	107	
880-7292-A-1-B MS	880-7292-A-1-B MS	8 S1-	127	
880-7292-A-1-C MSD	880-7292-A-1-C MSD	21 S1-	0.006 S1-	
880-7474-A-1-D MS	Matrix Spike	357 S1+	115	
880-7474-A-1-E MSD	Matrix Spike Duplicate	335 S1+	125	
880-7548-A-1-B MS	Matrix Spike	106	104	
880-7548-A-1-C MSD	Matrix Spike Duplicate	115	109	
890-1445-A-41-B MS	Matrix Spike	82	100	
890-1445-A-41-C MSD	Matrix Spike Duplicate	83	112	
LCS 880-10005/1-A	Lab Control Sample	92	111	
LCS 880-10011/1-A	Lab Control Sample	90	105	
LCS 880-10273/1-A	Lab Control Sample	116	105	
LCS 880-10593/1-A	Lab Control Sample	107	107	
LCSD 880-10005/2-A	Lab Control Sample Dup	98	115	
LCSD 880-10011/2-A	Lab Control Sample Dup	93	101	
LCSD 880-10273/2-A	Lab Control Sample Dup	111	111	
LCSD 880-10593/2-A	Lab Control Sample Dup	104	107	
MB 880-10004/5-A	Method Blank	66 S1-	96	
MB 880-10005/5-A	Method Blank	66 S1-	98	
MB 880-10009/5-A	Method Blank	119	99	
MB 880-10011/5-A	Method Blank	107	107	
MB 880-10200/5-A	Method Blank	116	101	
MB 880-10273/5-A	Method Blank	69 S1-	99	
MB 880-10593/5-A	Method Blank	110	95	

**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)	
880-7252-A-1-H MS	Matrix Spike	121	121	
880-7252-A-1-I MSD	Matrix Spike Duplicate	149 S1+	139 S1+	
880-7292-2	AH1 - 3'	119	116	
880-7292-4	AH2 - 3'	106	106	
880-7292-6	AH3 - 3'	118	82	
880-7292-7	AH3 - 5'	98	108	
880-7292-9	AH4 - 3'	102	97	
880-7523-A-1-G MS	Matrix Spike	97	83	

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**Surrogate Summary**

Client: GHD Services Inc.

Project/Site: Snapping Pump Site - 12565619

Job ID: 880-7292-1

SDG: Eddy County NM

**Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)****Matrix: Solid****Prep Type: Total/NA**

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Percent Surrogate Recovery (Acceptance Limits)</b>		
		<b>1CO1 (70-130)</b>	<b>OTPH1 (70-130)</b>	
880-7523-A-1-H MSD	Matrix Spike Duplicate	100	89	
890-1485-A-1-F MS	Matrix Spike	104	97	
890-1485-A-1-G MSD	Matrix Spike Duplicate	107	92	
LCS 880-10137/2-A	Lab Control Sample	117	112	
LCS 880-10766/2-A	Lab Control Sample	94	90	
LCS 880-10910/2-A	Lab Control Sample	116	116	
LCSD 880-10137/3-A	Lab Control Sample Dup	103	95	
LCSD 880-10766/3-A	Lab Control Sample Dup	83	77	
LCSD 880-10910/3-A	Lab Control Sample Dup	138 S1+	111	
MB 880-10137/1-A	Method Blank	126	135 S1+	
MB 880-10766/1-A	Method Blank	115	115	
MB 880-10910/1-A	Method Blank	116	126	

**Surrogate Legend**

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

**Method: 8015B NM - Diesel Range Organics (DRO) (GC)****Matrix: Solid****Prep Type: Total/NA**

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Percent Surrogate Recovery (Acceptance Limits)</b>		
		<b>1CO1</b>	<b>OTPH1</b>	
880-7292-1	AH1 - 1'			
880-7292-3	AH2 - 2'			
880-7292-5	AH3 - 1'			
880-7292-8	AH4 - 1'			

**Surrogate Legend**

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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**QC Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pump Site - 12565619

Job ID: 880-7292-1  
 SDG: Eddy County NM

**Method: 8021B - Volatile Organic Compounds (GC)****Lab Sample ID: MB 880-10004/5-A****Matrix: Solid****Analysis Batch: 10194****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 10004**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		10/20/21 13:59	10/24/21 00:03	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		10/20/21 13:59	10/24/21 00:03	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		10/20/21 13:59	10/24/21 00:03	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		10/20/21 13:59	10/24/21 00:03	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		10/20/21 13:59	10/24/21 00:03	1

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
4-Bromofluorobenzene (Surr)	66	S1-	70 - 130			10/20/21 13:59	10/24/21 00:03	1
1,4-Difluorobenzene (Surr)	96		70 - 130			10/20/21 13:59	10/24/21 00:03	1

**Lab Sample ID: MB 880-10005/5-A****Matrix: Solid****Analysis Batch: 10194****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 10005**

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier									
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		10/20/21 14:01	10/24/21 13:49	1		
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		10/20/21 14:01	10/24/21 13:49	1		
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		10/20/21 14:01	10/24/21 13:49	1		
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		10/20/21 14:01	10/24/21 13:49	1		
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		10/20/21 14:01	10/24/21 13:49	1		

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
4-Bromofluorobenzene (Surr)	66	S1-	70 - 130			10/20/21 14:01	10/24/21 13:49	1
1,4-Difluorobenzene (Surr)	98		70 - 130			10/20/21 14:01	10/24/21 13:49	1

**Lab Sample ID: LCS 880-10005/1-A****Matrix: Solid****Analysis Batch: 10194****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 10005**

Analyte	Spike Added	LC	LC	Result	Qualifier	Unit	D	%Rec	Limits
		Spike	LC						
Benzene	0.100	0.09032		mg/Kg			90	70 - 130	
Toluene	0.100	0.08388		mg/Kg			84	70 - 130	
Ethylbenzene	0.100	0.07931		mg/Kg			79	70 - 130	
m-Xylene & p-Xylene	0.200	0.1550		mg/Kg			78	70 - 130	
o-Xylene	0.100	0.08064		mg/Kg			81	70 - 130	

Surrogate	LC	LC	%Recovery	Qualifier	Limits
	LC	LC			
4-Bromofluorobenzene (Surr)	92	70 - 130			
1,4-Difluorobenzene (Surr)	111	70 - 130			

**Lab Sample ID: LCSD 880-10005/2-A****Matrix: Solid****Analysis Batch: 10194****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 10005**

Analyte	Spk	LCSD	LCSD	Result	Qualifer	Unit	D	%Rec	Limits	RPD	Limit
	Added	Spk	LCSD								
Benzene	0.100	0.09394		mg/Kg			94	70 - 130	4	35	
Toluene	0.100	0.08810		mg/Kg			88	70 - 130	5	35	
Ethylbenzene	0.100	0.08474		mg/Kg			85	70 - 130	7	35	

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**QC Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pump Site - 12565619

Job ID: 880-7292-1  
 SDG: Eddy County NM

**Method: 8021B - Volatile Organic Compounds (GC) (Continued)****Lab Sample ID: LCSD 880-10005/2-A****Matrix: Solid****Analysis Batch: 10194****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 10005**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m-Xylene & p-Xylene	0.200	0.1668		mg/Kg	83	70 - 130	7	35	
o-Xylene	0.100	0.08643		mg/Kg	86	70 - 130	7	35	

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

**Lab Sample ID: 890-1445-A-41-B MS****Matrix: Solid****Analysis Batch: 10194****Client Sample ID: Matrix Spike****Prep Type: Total/NA****Prep Batch: 10005**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.000383	U F1	0.0996	0.03375	F1	mg/Kg	34	70 - 130	
Toluene	<0.000453	U F1	0.0996	0.03988	F1	mg/Kg	40	70 - 130	
Ethylbenzene	<0.000562	U F1	0.0996	0.04409	F1	mg/Kg	44	70 - 130	
m-Xylene & p-Xylene	<0.00100	U F1	0.199	0.08668	F1	mg/Kg	44	70 - 130	
o-Xylene	<0.000342	U F1	0.0996	0.04511	F1	mg/Kg	45	70 - 130	

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	82		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

**Lab Sample ID: 890-1445-A-41-C MSD****Matrix: Solid****Analysis Batch: 10194****Client Sample ID: Matrix Spike Duplicate****Prep Type: Total/NA****Prep Batch: 10005**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.000383	U F1	0.0996	0.03853	F1	mg/Kg	39	70 - 130	13	35	
Toluene	<0.000453	U F1	0.0996	0.03861	F1	mg/Kg	39	70 - 130	3	35	
Ethylbenzene	<0.000562	U F1	0.0996	0.04023	F1	mg/Kg	40	70 - 130	9	35	
m-Xylene & p-Xylene	<0.00100	U F1	0.199	0.08036	F1	mg/Kg	40	70 - 130	8	35	
o-Xylene	<0.000342	U F1	0.0996	0.04260	F1	mg/Kg	43	70 - 130	6	35	

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	83		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

**Lab Sample ID: MB 880-10009/5-A****Matrix: Solid****Analysis Batch: 10332****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 10009**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		10/20/21 14:10	10/24/21 04:18	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		10/20/21 14:10	10/24/21 04:18	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		10/20/21 14:10	10/24/21 04:18	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		10/20/21 14:10	10/24/21 04:18	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		10/20/21 14:10	10/24/21 04:18	1

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**QC Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pump Site - 12565619

Job ID: 880-7292-1  
 SDG: Eddy County NM

**Method: 8021B - Volatile Organic Compounds (GC) (Continued)****Lab Sample ID: MB 880-10009/5-A****Matrix: Solid****Analysis Batch: 10332**

Surrogate	MB	MB	%Recovery	Qualifier	Limits
	Result	Qualifer			
4-Bromofluorobenzene (Surr)	119		119		70 - 130
1,4-Difluorobenzene (Surr)	99		99		70 - 130

**Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 10009****Lab Sample ID: MB 880-10011/5-A****Matrix: Solid****Analysis Batch: 10332**

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifer							Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg	10/20/21 14:16	10/24/21 15:20	1			
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg	10/20/21 14:16	10/24/21 15:20	1			
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg	10/20/21 14:16	10/24/21 15:20	1			
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg	10/20/21 14:16	10/24/21 15:20	1			
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg	10/20/21 14:16	10/24/21 15:20	1			

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
	Result	Qualifer				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	107		107		70 - 130	10/20/21 14:16	10/24/21 15:20	1	
1,4-Difluorobenzene (Surr)	107		107		70 - 130	10/20/21 14:16	10/24/21 15:20	1	

**Lab Sample ID: LCS 880-10011/1-A****Matrix: Solid****Analysis Batch: 10332**

Analyte	Spike	LCS	LCS	Result	Qualifier	Unit	D	%Rec.	Limits
	Added	Result	Qualifer					%Rec.	
Benzene	0.100	0.1028		mg/Kg	103	70 - 130			
Toluene	0.100	0.07866		mg/Kg	79	70 - 130			
Ethylbenzene	0.100	0.07910		mg/Kg	79	70 - 130			
m-Xylene & p-Xylene	0.200	0.1485		mg/Kg	74	70 - 130			
o-Xylene	0.100	0.07658		mg/Kg	77	70 - 130			

Surrogate	LCS	LCS	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
	Result	Qualifer				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	90		90		70 - 130	10/20/21 14:16	10/24/21 15:20	1	
1,4-Difluorobenzene (Surr)	105		105		70 - 130	10/20/21 14:16	10/24/21 15:20	1	

**Lab Sample ID: LCSD 880-10011/2-A****Matrix: Solid****Analysis Batch: 10332**

Analyte	Spike	LCSD	LCSD	Result	Qualifier	Unit	D	%Rec.	Limits	RPD	Limit
	Added	Result	Qualifer					%Rec.			
Benzene	0.100	0.08414		mg/Kg	84	70 - 130	20	35			
Toluene	0.100	0.07026		mg/Kg	70	70 - 130	11	35			
Ethylbenzene	0.100	0.07046		mg/Kg	70	70 - 130	12	35			
m-Xylene & p-Xylene	0.200	0.1400		mg/Kg	70	70 - 130	6	35			
o-Xylene	0.100	0.07068		mg/Kg	71	70 - 130	8	35			

Surrogate	LCSD	LCSD	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
	Result	Qualifer				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	93		93		70 - 130	10/20/21 14:16	10/24/21 15:20	1	
1,4-Difluorobenzene (Surr)	101		101		70 - 130	10/20/21 14:16	10/24/21 15:20	1	

**Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 10011**

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**QC Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pump Site - 12565619

Job ID: 880-7292-1  
 SDG: Eddy County NM

**Method: 8021B - Volatile Organic Compounds (GC) (Continued)****Lab Sample ID: 880-7292-A-1-B MS****Matrix: Solid****Analysis Batch: 10332****Client Sample ID: 880-7292-A-1-B MS****Prep Type: Total/NA****Prep Batch: 10011**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				Limits
Benzene	0.0580	F1	0.101	<0.000389	U F1	mg/Kg	0	70 - 130	
Toluene	0.195	B F1	0.101	0.02703	F1	mg/Kg	-166	70 - 130	
Ethylbenzene	0.714	E	0.101	0.006642	4	mg/Kg	-700	70 - 130	
m-Xylene & p-Xylene	0.138	B F1	0.202	0.001238	J F1	mg/Kg	-68	70 - 130	
o-Xylene	2.20	E	0.101	0.06402	4	mg/Kg	-2117	70 - 130	
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>					
4-Bromofluorobenzene (Surr)		8	S1-	70 - 130					
1,4-Difluorobenzene (Surr)		127		70 - 130					

**Lab Sample ID: 880-7292-A-1-C MSD****Matrix: Solid****Analysis Batch: 10332****Client Sample ID: 880-7292-A-1-C MSD****Prep Type: Total/NA****Prep Batch: 10011**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				RPD
Benzene	0.0580	F1	0.0998	0.0004738	J F1	mg/Kg	-58	70 - 130	NC 35
Toluene	0.195	B F1	0.0998	0.001393	J F1 F2	mg/Kg	-194	70 - 130	180 35
Ethylbenzene	0.714	E	0.0998	0.05093	4 F2	mg/Kg	-664	70 - 130	154 35
m-Xylene & p-Xylene	0.138	B F1	0.200	0.02850	F1 F2	mg/Kg	-55	70 - 130	183 35
o-Xylene	2.20	E	0.0998	0.1697	4 F2	mg/Kg	-2037	70 - 130	90 35
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>					
4-Bromofluorobenzene (Surr)		21	S1-	70 - 130					
1,4-Difluorobenzene (Surr)		0.006	S1-	70 - 130					

**Lab Sample ID: MB 880-10200/5-A****Matrix: Solid****Analysis Batch: 10594****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 10200**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		10/26/21 08:30	10/26/21 12:48	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		10/26/21 08:30	10/26/21 12:48	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		10/26/21 08:30	10/26/21 12:48	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		10/26/21 08:30	10/26/21 12:48	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		10/26/21 08:30	10/26/21 12:48	1
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>					
4-Bromofluorobenzene (Surr)		116		70 - 130					
1,4-Difluorobenzene (Surr)		101		70 - 130					

**Lab Sample ID: MB 880-10273/5-A****Matrix: Solid****Analysis Batch: 10341****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 10273**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		10/22/21 16:35	10/25/21 03:44	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		10/22/21 16:35	10/25/21 03:44	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		10/22/21 16:35	10/25/21 03:44	1

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**QC Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pump Site - 12565619

Job ID: 880-7292-1  
 SDG: Eddy County NM

**Method: 8021B - Volatile Organic Compounds (GC) (Continued)****Lab Sample ID: MB 880-10273/5-A****Matrix: Solid****Analysis Batch: 10341**

Analyte	MB	MB						D	Prepared	Analyzed	Dil Fac
	Result	Qualifier	RL	MDL	Unit						
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg			10/22/21 16:35	10/25/21 03:44		1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg			10/22/21 16:35	10/25/21 03:44		1

Surrogate	MB	MB						D	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130					10/22/21 16:35	10/25/21 03:44		1
1,4-Difluorobenzene (Surr)	99		70 - 130					10/22/21 16:35	10/25/21 03:44		1

**Lab Sample ID: LCS 880-10273/1-A****Matrix: Solid****Analysis Batch: 10341**

Analyte	Spikes	LCS	LCS						D	%Rec.	Limits
	Added	Result	Qualifier	Unit							
Benzene	0.100	0.1024		mg/Kg					102	70 - 130	
Toluene	0.100	0.09417		mg/Kg					94	70 - 130	
Ethylbenzene	0.100	0.1024		mg/Kg					102	70 - 130	
m-Xylene & p-Xylene	0.200	0.2149		mg/Kg					107	70 - 130	
o-Xylene	0.100	0.1087		mg/Kg					109	70 - 130	

Surrogate	LCS	LCS						D	%Rec.	Limits
	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	116		70 - 130							
1,4-Difluorobenzene (Surr)	105		70 - 130							

**Lab Sample ID: LCSD 880-10273/2-A****Matrix: Solid****Analysis Batch: 10341**

Analyte	Spikes	LCSD	LCSD						D	%Rec.	RPD
	Added	Result	Qualifier	Unit							
Benzene	0.100	0.09688		mg/Kg					97	70 - 130	6
Toluene	0.100	0.1035		mg/Kg					103	70 - 130	9
Ethylbenzene	0.100	0.09873		mg/Kg					99	70 - 130	4
m-Xylene & p-Xylene	0.200	0.1998		mg/Kg					100	70 - 130	7
o-Xylene	0.100	0.10007		mg/Kg					101	70 - 130	8

Surrogate	LCSD	LCSD						D	%Rec.	RPD
	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	111		70 - 130							
1,4-Difluorobenzene (Surr)	111		70 - 130							

**Lab Sample ID: 880-7474-A-1-D MS****Matrix: Solid****Analysis Batch: 10341**

Analyte	Sample	Sample	Spikes	MS	MS						D	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier	Unit							
Benzene	<0.000388	U	0.0998	0.07035		mg/Kg					70	70 - 130	
Toluene	<0.000460	U	0.0998	0.08238		mg/Kg					83	70 - 130	
Ethylbenzene	<0.000570	U	0.0998	0.08177		mg/Kg					82	70 - 130	
m-Xylene & p-Xylene	0.00118	J F1	0.200	0.2741	F1	mg/Kg					137	70 - 130	
o-Xylene	<0.000347	U	0.0998	0.1134		mg/Kg					114	70 - 130	

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 10273**

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**QC Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pump Site - 12565619

Job ID: 880-7292-1  
 SDG: Eddy County NM

**Method: 8021B - Volatile Organic Compounds (GC) (Continued)****Lab Sample ID: 880-7474-A-1-D MS****Matrix: Solid****Analysis Batch: 10341**

Surrogate	MS	MS	%Recovery	Qualifier	Limits
	%Recovery	Qualifier			
4-Bromofluorobenzene (Surr)	357	S1+	70 - 130		
1,4-Difluorobenzene (Surr)	115		70 - 130		

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 10273**

**Lab Sample ID: 880-7474-A-1-E MSD****Matrix: Solid****Analysis Batch: 10341**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Benzene	<0.000388	U	0.0994	0.06914		mg/Kg	70	70 - 130	2	35	
Toluene	<0.000460	U	0.0994	0.09018		mg/Kg	91	70 - 130	9	35	
Ethylbenzene	<0.000570	U	0.0994	0.08445		mg/Kg	85	70 - 130	3	35	
m-Xylene & p-Xylene	0.00118	J F1	0.199	0.2184		mg/Kg	109	70 - 130	23	35	
o-Xylene	<0.000347	U	0.0994	0.1063		mg/Kg	107	70 - 130	6	35	

Surrogate	MSD	MSD	%Recovery	Qualifier	Limits
	%Recovery	Qualifier			
4-Bromofluorobenzene (Surr)	335	S1+	70 - 130		
1,4-Difluorobenzene (Surr)	125		70 - 130		

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 10273**

**Lab Sample ID: MB 880-10593/5-A****Matrix: Solid****Analysis Batch: 10594**

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg	10/26/21 09:12	10/26/21 23:41	1			
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg	10/26/21 09:12	10/26/21 23:41	1			
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg	10/26/21 09:12	10/26/21 23:41	1			
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg	10/26/21 09:12	10/26/21 23:41	1			
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg	10/26/21 09:12	10/26/21 23:41	1			

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
4-Bromofluorobenzene (Surr)	110		70 - 130			10/26/21 09:12	10/26/21 23:41	1
1,4-Difluorobenzene (Surr)	95		70 - 130			10/26/21 09:12	10/26/21 23:41	1

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 10593**

**Lab Sample ID: LCS 880-10593/1-A****Matrix: Solid****Analysis Batch: 10594**

Analyte	Spike	LCS	LCS	Result	Qualifier	Unit	D	%Rec	Limits
	Added	Result	Qualifier						
Benzene	0.100	0.1006		mg/Kg	101	70 - 130			
Toluene	0.100	0.09131		mg/Kg	91	70 - 130			
Ethylbenzene	0.100	0.08984		mg/Kg	90	70 - 130			
m-Xylene & p-Xylene	0.200	0.1840		mg/Kg	92	70 - 130			
o-Xylene	0.100	0.09319		mg/Kg	93	70 - 130			

Surrogate	LCS	LCS	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
4-Bromofluorobenzene (Surr)	107		70 - 130			10/26/21 09:12	10/26/21 23:41	1
1,4-Difluorobenzene (Surr)	107		70 - 130			10/26/21 09:12	10/26/21 23:41	1

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**QC Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pump Site - 12565619

Job ID: 880-7292-1  
 SDG: Eddy County NM

**Method: 8021B - Volatile Organic Compounds (GC) (Continued)****Lab Sample ID: LCSD 880-10593/2-A****Matrix: Solid****Analysis Batch: 10594****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA  
Prep Batch: 10593**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09287		mg/Kg		93	70 - 130	8	35
Toluene	0.100	0.08177		mg/Kg		82	70 - 130	11	35
Ethylbenzene	0.100	0.08158		mg/Kg		82	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.1675		mg/Kg		84	70 - 130	9	35
o-Xylene	0.100	0.08487		mg/Kg		85	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

**Lab Sample ID: 880-7548-A-1-B MS****Matrix: Solid****Analysis Batch: 10594****Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 10593**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.000616	J	0.101	0.07091		mg/Kg		70	70 - 130
Toluene	<0.000454	U F1	0.101	0.06471	F1	mg/Kg		64	70 - 130
Ethylbenzene	<0.000563	U F1	0.101	0.06192	F1	mg/Kg		61	70 - 130
m-Xylene & p-Xylene	<0.00101	U F1	0.202	0.1307	F1	mg/Kg		65	70 - 130
o-Xylene	<0.000343	U F1	0.101	0.06601	F1	mg/Kg		65	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

**Lab Sample ID: 880-7548-A-1-C MSD****Matrix: Solid****Analysis Batch: 10594****Client Sample ID: Matrix Spike Duplicate  
Prep Type: Total/NA  
Prep Batch: 10593**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.000616	J	0.101	0.08348		mg/Kg		82	70 - 130	16	35
Toluene	<0.000454	U F1	0.101	0.07281		mg/Kg		72	70 - 130	12	35
Ethylbenzene	<0.000563	U F1	0.101	0.07175		mg/Kg		71	70 - 130	15	35
m-Xylene & p-Xylene	<0.00101	U F1	0.202	0.1509		mg/Kg		75	70 - 130	14	35
o-Xylene	<0.000343	U F1	0.101	0.07588		mg/Kg		75	70 - 130	14	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

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**QC Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pump Site - 12565619

Job ID: 880-7292-1  
 SDG: Eddy County NM

**Method: 8015B NM - Diesel Range Organics (DRO) (GC)****Lab Sample ID: MB 880-10137/1-A****Matrix: Solid****Analysis Batch: 10165****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 10137**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	15.37	J	50.0	15.0	mg/Kg		10/21/21 15:22	10/22/21 09:08	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		10/21/21 15:22	10/22/21 09:08	1
Oil Range Organics (Over C28-C36)	18.26	J	50.0	15.0	mg/Kg		10/21/21 15:22	10/22/21 09:08	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130				10/21/21 15:22	10/22/21 09:08	1
o-Terphenyl	135	S1+	70 - 130				10/21/21 15:22	10/22/21 09:08	1

**Lab Sample ID: LCS 880-10137/2-A****Matrix: Solid****Analysis Batch: 10165****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 10137**

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
Gasoline Range Organics (GRO)-C6-C10		1000	1063		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)		1000	1333	*+	mg/Kg		133	70 - 130
<b>Surrogate</b>								
<b>Surrogate</b>								
1-Chlorooctane	117		70 - 130					
o-Terphenyl	112		70 - 130					

**Lab Sample ID: LCSD 880-10137/3-A****Matrix: Solid****Analysis Batch: 10165****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 10137**

Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD
Gasoline Range Organics (GRO)-C6-C10		1000	896.8		mg/Kg		90	70 - 130	17
Diesel Range Organics (Over C10-C28)		1000	1093		mg/Kg		109	70 - 130	20
<b>Surrogate</b>									
<b>Surrogate</b>									
1-Chlorooctane	103		70 - 130						
o-Terphenyl	95		70 - 130						

**Lab Sample ID: 880-7252-A-1-H MS****Matrix: Solid****Analysis Batch: 10165****Client Sample ID: Matrix Spike****Prep Type: Total/NA****Prep Batch: 10137**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.
Gasoline Range Organics (GRO)-C6-C10	35.9	J B F2	999	874.9		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	<15.0	U *+	999	990.0		mg/Kg		99	70 - 130

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**QC Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pump Site - 12565619

Job ID: 880-7292-1  
 SDG: Eddy County NM

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

Lab Sample ID: 880-7252-A-1-H MS

Matrix: Solid

Analysis Batch: 10165

Client Sample ID: Matrix Spike  
 Prep Type: Total/NA  
 Prep Batch: 10137

Surrogate	MS	MS	%Recovery	Qualifier	Limits
1-Chlorooctane			121		70 - 130
o-Terphenyl			121		70 - 130

Lab Sample ID: 880-7252-A-1-I MSD

Matrix: Solid

Analysis Batch: 10165

Client Sample ID: Matrix Spike Duplicate  
 Prep Type: Total/NA  
 Prep Batch: 10137

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec.	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	35.9	J B F2	1000	1132	F2	mg/Kg	110	70 - 130	26	20
Diesel Range Organics (Over C10-C28)	<15.0	U *+	1000	1183		mg/Kg	118	70 - 130	18	20

Surrogate	MSD	MSD	%Recovery	Qualifier	Limits
1-Chlorooctane	149	S1+			70 - 130
o-Terphenyl	139	S1+			70 - 130

Lab Sample ID: MB 880-10766/1-A

Matrix: Solid

Analysis Batch: 10808

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 10766

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	15.41	J	50.0	15.0	mg/Kg	10/27/21 16:03	10/28/21 10:00		1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg	10/27/21 16:03	10/28/21 10:00		1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	10/27/21 16:03	10/28/21 10:00		1

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115				70 - 130	10/27/21 16:03	10/28/21 10:00	1
o-Terphenyl	115				70 - 130	10/27/21 16:03	10/28/21 10:00	1

Lab Sample ID: LCS 880-10766/2-A

Matrix: Solid

Analysis Batch: 10808

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 10766

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Gasoline Range Organics (GRO)-C6-C10		1000	774.2		mg/Kg	77	70 - 130	
Diesel Range Organics (Over C10-C28)		1000	997.5		mg/Kg	100	70 - 130	

Surrogate	LCS	LCS	%Recovery	Qualifier	Limits
1-Chlorooctane	94				70 - 130
o-Terphenyl	90				70 - 130

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**QC Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pump Site - 12565619

Job ID: 880-7292-1  
 SDG: Eddy County NM

**Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)****Lab Sample ID: LCSD 880-10766/3-A****Matrix: Solid****Analysis Batch: 10808****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA  
Prep Batch: 10766**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	802.4		mg/Kg		80	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	954.5		mg/Kg		95	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1-Chlorooctane	83		70 - 130
o-Terphenyl	77		70 - 130

**Lab Sample ID: 890-1485-A-1-F MS****Matrix: Solid****Analysis Batch: 10808****Client Sample ID: Matrix Spike****Prep Type: Total/NA  
Prep Batch: 10766**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	997	961.6		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	35.8	J	997	997.5		mg/Kg		96	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	97		70 - 130

**Lab Sample ID: 890-1485-A-1-G MSD****Matrix: Solid****Analysis Batch: 10808****Client Sample ID: Matrix Spike Duplicate****Prep Type: Total/NA  
Prep Batch: 10766**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	1000	991.3		mg/Kg		99	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	35.8	J	1000	966.9		mg/Kg		93	70 - 130	3	20

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	92		70 - 130

**Lab Sample ID: MB 880-10910/1-A****Matrix: Solid****Analysis Batch: 10885****Client Sample ID: Method Blank****Prep Type: Total/NA  
Prep Batch: 10910**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		10/29/21 09:34	10/29/21 19:59	1
Diesel Range Organics (Over C10-C28)	23.79	J	50.0	15.0	mg/Kg		10/29/21 09:34	10/29/21 19:59	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		10/29/21 09:34	10/29/21 19:59	1

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**QC Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pump Site - 12565619

Job ID: 880-7292-1  
 SDG: Eddy County NM

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

Lab Sample ID: MB 880-10910/1-A

Matrix: Solid

Analysis Batch: 10885

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10910

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane		116			70 - 130	10/29/21 09:34	10/29/21 19:59	1
<i>o</i> -Terphenyl		126			70 - 130	10/29/21 09:34	10/29/21 19:59	1

Lab Sample ID: LCS 880-10910/2-A

Matrix: Solid

Analysis Batch: 10885

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10910

Analyte	LCS	LCS	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1098		mg/Kg		110	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	992.5		mg/Kg		99	70 - 130	
Surrogate	LCS	LCS	%Recovery	Qualifier	Limits					
1-Chlorooctane		116			70 - 130					
<i>o</i> -Terphenyl		116			70 - 130					

Lab Sample ID: LCSD 880-10910/3-A

Matrix: Solid

Analysis Batch: 10885

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10910

Analyte	LCSD	LCSD	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1115		mg/Kg		112	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	996.5		mg/Kg		100	70 - 130	0	20
Surrogate	LCSD	LCSD	%Recovery	Qualifier	Limits						
1-Chlorooctane		138	S1+		70 - 130						
<i>o</i> -Terphenyl		111			70 - 130						

Lab Sample ID: 880-7523-A-1-G MS

Matrix: Solid

Analysis Batch: 10885

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 10910

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.	
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	997	973.1		mg/Kg		98	70 - 130	
Diesel Range Organics (Over C10-C28)	35.3	J B	997	819.5		mg/Kg		79	70 - 130	
Surrogate	MS	MS	%Recovery	Qualifier	Limits					
1-Chlorooctane		97			70 - 130					
<i>o</i> -Terphenyl		83			70 - 130					

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**QC Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pump Site - 12565619

Job ID: 880-7292-1  
 SDG: Eddy County NM

**Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)****Lab Sample ID: 880-7523-A-1-H MSD****Matrix: Solid****Analysis Batch: 10885****Client Sample ID: Matrix Spike Duplicate****Prep Type: Total/NA****Prep Batch: 10910**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec.	RPD	RPD Limit	
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	1000	990.1		mg/Kg		99	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	35.3	J B	1000	892.6		mg/Kg		86	70 - 130	9	20
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
1-Chlorooctane	100		70 - 130								
o-Terphenyl	89		70 - 130								

**Method: 300.0 - Anions, Ion Chromatography****Lab Sample ID: MB 880-9975/1-A****Matrix: Solid****Analysis Batch: 10221****Client Sample ID: Method Blank****Prep Type: Soluble**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.858	U	5.00	0.858	mg/Kg			10/23/21 10:34	1

**Lab Sample ID: LCS 880-9975/2-A****Matrix: Solid****Analysis Batch: 10221****Client Sample ID: Lab Control Sample****Prep Type: Soluble**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Chloride	250	266.6		mg/Kg		107	90 - 110

**Lab Sample ID: LCSD 880-9975/3-A****Matrix: Solid****Analysis Batch: 10221****Client Sample ID: Lab Control Sample Dup****Prep Type: Soluble**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec.	RPD	RPD Limit	
Chloride	250	261.0		mg/Kg		104	90 - 110	2	20

**Lab Sample ID: 880-7038-A-21-B MS****Matrix: Solid****Analysis Batch: 10221****Client Sample ID: Matrix Spike****Prep Type: Soluble**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec.	RPD	RPD Limit	
Chloride	272		253	508.8		mg/Kg		94	90 - 110		

**Lab Sample ID: 880-7038-A-21-C MSD****Matrix: Solid****Analysis Batch: 10221****Client Sample ID: Matrix Spike Duplicate****Prep Type: Soluble**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec.	RPD	RPD Limit	
Chloride	272		253	508.0		mg/Kg		94	90 - 110	0	20

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**QC Association Summary**

Client: GHD Services Inc.  
 Project/Site: Snapping Pump Site - 12565619

Job ID: 880-7292-1  
 SDG: Eddy County NM

**GC VOA****Prep Batch: 10004**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-10004/5-A	Method Blank	Total/NA	Solid	5035	

**Prep Batch: 10005**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7292-8	AH4 - 1'	Total/NA	Solid	5035	
MB 880-10005/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-10005/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-10005/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1445-A-41-B MS	Matrix Spike	Total/NA	Solid	5035	
890-1445-A-41-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

**Prep Batch: 10009**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-10009/5-A	Method Blank	Total/NA	Solid	5035	

**Prep Batch: 10011**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7292-3	AH2 - 2'	Total/NA	Solid	5035	
880-7292-5	AH3 - 1'	Total/NA	Solid	5035	
880-7292-7	AH3 - 5'	Total/NA	Solid	5035	
MB 880-10011/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-10011/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-10011/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-7292-A-1-B MS	880-7292-A-1-B MS	Total/NA	Solid	5035	
880-7292-A-1-C MSD	880-7292-A-1-C MSD	Total/NA	Solid	5035	

**Analysis Batch: 10194**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7292-8	AH4 - 1'	Total/NA	Solid	8021B	10005
MB 880-10004/5-A	Method Blank	Total/NA	Solid	8021B	10004
MB 880-10005/5-A	Method Blank	Total/NA	Solid	8021B	10005
LCS 880-10005/1-A	Lab Control Sample	Total/NA	Solid	8021B	10005
LCSD 880-10005/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	10005
890-1445-A-41-B MS	Matrix Spike	Total/NA	Solid	8021B	10005
890-1445-A-41-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	10005

**Prep Batch: 10200**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-10200/5-A	Method Blank	Total/NA	Solid	5035	

**Prep Batch: 10273**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7292-1	AH1 - 1'	Total/NA	Solid	5035	
880-7292-5	AH3 - 1'	Total/NA	Solid	5035	
880-7292-8	AH4 - 1'	Total/NA	Solid	5035	
MB 880-10273/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-10273/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-10273/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-7474-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-7474-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Eurofins Midland

**QC Association Summary**

Client: GHD Services Inc.  
 Project/Site: Snapping Pump Site - 12565619

Job ID: 880-7292-1  
 SDG: Eddy County NM

**GC VOA****Analysis Batch: 10332**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7292-3	AH2 - 2'	Total/NA	Solid	8021B	10011
880-7292-5	AH3 - 1'	Total/NA	Solid	8021B	10011
880-7292-7	AH3 - 5'	Total/NA	Solid	8021B	10011
MB 880-10009/5-A	Method Blank	Total/NA	Solid	8021B	10009
MB 880-10011/5-A	Method Blank	Total/NA	Solid	8021B	10011
LCS 880-10011/1-A	Lab Control Sample	Total/NA	Solid	8021B	10011
LCSD 880-10011/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	10011
880-7292-A-1-B MS	880-7292-A-1-B MS	Total/NA	Solid	8021B	10011
880-7292-A-1-C MSD	880-7292-A-1-C MSD	Total/NA	Solid	8021B	10011

**Analysis Batch: 10341**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7292-1	AH1 - 1'	Total/NA	Solid	8021B	10273
880-7292-5	AH3 - 1'	Total/NA	Solid	8021B	10273
880-7292-8	AH4 - 1'	Total/NA	Solid	8021B	10273
MB 880-10273/5-A	Method Blank	Total/NA	Solid	8021B	10273
LCS 880-10273/1-A	Lab Control Sample	Total/NA	Solid	8021B	10273
LCSD 880-10273/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	10273
880-7474-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	10273
880-7474-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	10273

**Analysis Batch: 10497**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7292-1	AH1 - 1'	Total/NA	Solid	Total BTEX	
880-7292-3	AH2 - 2'	Total/NA	Solid	Total BTEX	
880-7292-5	AH3 - 1'	Total/NA	Solid	Total BTEX	
880-7292-8	AH4 - 1'	Total/NA	Solid	Total BTEX	

**Prep Batch: 10593**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7292-2	AH1 - 3'	Total/NA	Solid	5035	
880-7292-6	AH3 - 3'	Total/NA	Solid	5035	
880-7292-9	AH4 - 3'	Total/NA	Solid	5035	
MB 880-10593/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-10593/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-10593/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-7548-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-7548-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

**Analysis Batch: 10594**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7292-2	AH1 - 3'	Total/NA	Solid	8021B	10593
880-7292-6	AH3 - 3'	Total/NA	Solid	8021B	10593
880-7292-9	AH4 - 3'	Total/NA	Solid	8021B	10593
MB 880-10200/5-A	Method Blank	Total/NA	Solid	8021B	10200
MB 880-10593/5-A	Method Blank	Total/NA	Solid	8021B	10593
LCS 880-10593/1-A	Lab Control Sample	Total/NA	Solid	8021B	10593
LCSD 880-10593/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	10593
880-7548-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	10593
880-7548-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	10593

Eurofins Midland

**QC Association Summary**

Client: GHD Services Inc.  
 Project/Site: Snapping Pump Site - 12565619

Job ID: 880-7292-1  
 SDG: Eddy County NM

**GC VOA****Analysis Batch: 11149**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7292-2	AH1 - 3'	Total/NA	Solid	Total BTEX	
880-7292-6	AH3 - 3'	Total/NA	Solid	Total BTEX	
880-7292-7	AH3 - 5'	Total/NA	Solid	Total BTEX	
880-7292-9	AH4 - 3'	Total/NA	Solid	Total BTEX	

**GC Semi VOA****Prep Batch: 10137**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7292-1	AH1 - 1'	Total/NA	Solid	8015NM Prep	
880-7292-3	AH2 - 2'	Total/NA	Solid	8015NM Prep	
880-7292-5	AH3 - 1'	Total/NA	Solid	8015NM Prep	
880-7292-8	AH4 - 1'	Total/NA	Solid	8015NM Prep	
MB 880-10137/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-10137/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-10137/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-7252-A-1-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-7252-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

**Analysis Batch: 10165**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7292-1	AH1 - 1'	Total/NA	Solid	8015B NM	10137
880-7292-3	AH2 - 2'	Total/NA	Solid	8015B NM	10137
880-7292-5	AH3 - 1'	Total/NA	Solid	8015B NM	10137
880-7292-8	AH4 - 1'	Total/NA	Solid	8015B NM	10137
MB 880-10137/1-A	Method Blank	Total/NA	Solid	8015B NM	10137
LCS 880-10137/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	10137
LCSD 880-10137/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	10137
880-7252-A-1-H MS	Matrix Spike	Total/NA	Solid	8015B NM	10137
880-7252-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	10137

**Analysis Batch: 10533**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7292-1	AH1 - 1'	Total/NA	Solid	8015 NM	
880-7292-3	AH2 - 2'	Total/NA	Solid	8015 NM	
880-7292-5	AH3 - 1'	Total/NA	Solid	8015 NM	
880-7292-8	AH4 - 1'	Total/NA	Solid	8015 NM	

**Prep Batch: 10766**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7292-2	AH1 - 3'	Total/NA	Solid	8015NM Prep	
880-7292-4	AH2 - 3'	Total/NA	Solid	8015NM Prep	
880-7292-6	AH3 - 3'	Total/NA	Solid	8015NM Prep	
MB 880-10766/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-10766/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-10766/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1485-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1485-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Eurofins Midland

**QC Association Summary**

Client: GHD Services Inc.  
 Project/Site: Snapping Pump Site - 12565619

Job ID: 880-7292-1  
 SDG: Eddy County NM

**GC Semi VOA****Analysis Batch: 10808**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7292-2	AH1 - 3'	Total/NA	Solid	8015B NM	10766
880-7292-4	AH2 - 3'	Total/NA	Solid	8015B NM	10766
880-7292-6	AH3 - 3'	Total/NA	Solid	8015B NM	10766
MB 880-10766/1-A	Method Blank	Total/NA	Solid	8015B NM	10766
LCS 880-10766/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	10766
LCSD 880-10766/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	10766
890-1485-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	10766
890-1485-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	10766

**Analysis Batch: 10885**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7292-7	AH3 - 5'	Total/NA	Solid	8015B NM	10910
880-7292-9	AH4 - 3'	Total/NA	Solid	8015B NM	10910
MB 880-10910/1-A	Method Blank	Total/NA	Solid	8015B NM	10910
LCS 880-10910/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	10910
LCSD 880-10910/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	10910
880-7523-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	10910
880-7523-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	10910

**Prep Batch: 10910**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7292-7	AH3 - 5'	Total/NA	Solid	8015NM Prep	
880-7292-9	AH4 - 3'	Total/NA	Solid	8015NM Prep	
MB 880-10910/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-10910/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-10910/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-7523-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-7523-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

**Analysis Batch: 10946**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7292-2	AH1 - 3'	Total/NA	Solid	8015 NM	
880-7292-4	AH2 - 3'	Total/NA	Solid	8015 NM	
880-7292-6	AH3 - 3'	Total/NA	Solid	8015 NM	

**Analysis Batch: 11118**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7292-7	AH3 - 5'	Total/NA	Solid	8015 NM	
880-7292-9	AH4 - 3'	Total/NA	Solid	8015 NM	

**HPLC/IC****Leach Batch: 9975**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7292-1	AH1 - 1'	Soluble	Solid	DI Leach	
880-7292-3	AH2 - 2'	Soluble	Solid	DI Leach	
880-7292-5	AH3 - 1'	Soluble	Solid	DI Leach	
880-7292-8	AH4 - 1'	Soluble	Solid	DI Leach	
MB 880-9975/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9975/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9975/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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**QC Association Summary**

Client: GHD Services Inc.

Project/Site: Snapping Pump Site - 12565619

Job ID: 880-7292-1

SDG: Eddy County NM

**HPLC/IC (Continued)****Leach Batch: 9975 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7038-A-21-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-7038-A-21-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

**Analysis Batch: 10221**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-7292-1	AH1 - 1'	Soluble	Solid	300.0	9975
880-7292-3	AH2 - 2'	Soluble	Solid	300.0	9975
880-7292-5	AH3 - 1'	Soluble	Solid	300.0	9975
880-7292-8	AH4 - 1'	Soluble	Solid	300.0	9975
MB 880-9975/1-A	Method Blank	Soluble	Solid	300.0	9975
LCS 880-9975/2-A	Lab Control Sample	Soluble	Solid	300.0	9975
LCSD 880-9975/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9975
880-7038-A-21-B MS	Matrix Spike	Soluble	Solid	300.0	9975
880-7038-A-21-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	9975

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**Lab Chronicle**

Client: GHD Services Inc.  
 Project/Site: Snapping Pump Site - 12565619

Job ID: 880-7292-1  
 SDG: Eddy County NM

**Client Sample ID: AH1 - 1'**  
**Date Collected: 10/14/21 11:00**  
**Date Received: 10/18/21 09:45**

**Lab Sample ID: 880-7292-1**  
**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	10273	10/22/21 16:35	MR	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	10341	10/25/21 14:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10497	10/25/21 15:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10137	10/21/21 15:23	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10165	10/22/21 16:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	9975	10/20/21 12:21	CH	XEN MID
Soluble	Analysis	300.0		1			10221	10/23/21 12:21	CH	XEN MID

**Client Sample ID: AH1 - 3'**  
**Date Collected: 10/14/21 11:05**  
**Date Received: 10/18/21 09:45**

**Lab Sample ID: 880-7292-2**  
**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			4.95 g	5 mL	10593	10/26/21 09:12	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10594	10/27/21 06:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	10766	10/27/21 16:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10808	10/28/21 13:32	AJ	XEN MID

**Client Sample ID: AH2 - 2'**  
**Date Collected: 10/14/21 11:20**  
**Date Received: 10/18/21 09:45**

**Lab Sample ID: 880-7292-3**  
**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			5.05 g	5 mL	10011	10/20/21 14:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10332	10/24/21 16:03	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10497	10/25/21 15:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10137	10/21/21 15:23	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10165	10/22/21 16:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9975	10/20/21 12:21	CH	XEN MID
Soluble	Analysis	300.0		1			10221	10/23/21 12:28	CH	XEN MID

**Client Sample ID: AH2 - 3'**  
**Date Collected: 10/14/21 11:25**  
**Date Received: 10/18/21 09:45**

**Lab Sample ID: 880-7292-4**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	10766	10/27/21 16:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10808	10/28/21 13:54	AJ	XEN MID

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**Lab Chronicle**

Client: GHD Services Inc.  
 Project/Site: Snapping Pump Site - 12565619

Job ID: 880-7292-1  
 SDG: Eddy County NM

**Client Sample ID: AH3 - 1'**  
**Date Collected: 10/14/21 11:55**  
**Date Received: 10/18/21 09:45**

**Lab Sample ID: 880-7292-5**  
**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			5.05 g	5 mL	10011	10/20/21 14:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10332	10/24/21 16:24	KL	XEN MID
Total/NA	Prep	5035			4.96 g	5 mL	10273	10/22/21 16:35	MR	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	10341	10/25/21 14:43	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10497	10/25/21 15:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10137	10/21/21 15:23	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10165	10/22/21 17:00	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9975	10/20/21 12:21	CH	XEN MID
Soluble	Analysis	300.0		1			10221	10/23/21 12:35	CH	XEN MID

**Client Sample ID: AH3 - 3'**

**Lab Sample ID: 880-7292-6**  
**Matrix: Solid**

**Date Collected: 10/14/21 12:00**  
**Date Received: 10/18/21 09:45**

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	10593	10/26/21 09:12	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10594	10/27/21 07:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10946	10/29/21 13:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10766	10/27/21 16:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10808	10/28/21 14:21	AJ	XEN MID

**Client Sample ID: AH3 - 5'**

**Lab Sample ID: 880-7292-7**  
**Matrix: Solid**

**Date Collected: 10/14/21 12:05**  
**Date Received: 10/18/21 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	10011	10/20/21 14:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10332	10/24/21 16:45	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11118	11/01/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	10910	10/28/21 09:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10885	10/30/21 02:41	AJ	XEN MID

**Client Sample ID: AH4 - 1'**

**Lab Sample ID: 880-7292-8**  
**Matrix: Solid**

**Date Collected: 10/14/21 12:40**  
**Date Received: 10/18/21 09:45**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	10005	10/20/21 14:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10194	10/25/21 00:19	MR	XEN MID
Total/NA	Prep	5035			4.97 g	5 mL	10273	10/22/21 16:35	MR	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	10341	10/25/21 15:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10497	10/25/21 15:44	AJ	XEN MID

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**Lab Chronicle**

Client: GHD Services Inc.  
 Project/Site: Snapping Pump Site - 12565619

Job ID: 880-7292-1  
 SDG: Eddy County NM

**Client Sample ID: AH4 - 1'**  
**Date Collected: 10/14/21 12:40**  
**Date Received: 10/18/21 09:45**

**Lab Sample ID: 880-7292-8**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			10533	10/25/21 19:23	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10137	10/21/21 15:23	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10165	10/22/21 17:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9975	10/20/21 12:21	CH	XEN MID
Soluble	Analysis	300.0		1			10221	10/23/21 12:43	CH	XEN MID

**Client Sample ID: AH4 - 3'**  
**Date Collected: 10/14/21 12:45**  
**Date Received: 10/18/21 09:45**

**Lab Sample ID: 880-7292-9**  
**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			4.99 g	5 mL	10593	10/26/21 09:12	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10594	10/27/21 07:33	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 13:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11118	11/01/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	10910	10/28/21 09:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10885	10/30/21 03:02	AJ	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: GHD Services Inc.

Job ID: 880-7292-1

Project/Site: Snapping Pump Site - 12565619

SDG: Eddy County NM

### 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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Eurofins Midland

## Method Summary

Client: GHD Services Inc.  
Project/Site: Snapping Pump Site - 12565619

Job ID: 880-7292-1  
SDG: Eddy County NM

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

Eurofins Midland

**Sample Summary**

Client: GHD Services Inc.

Job ID: 880-7292-1

Project/Site: Snapping Pump Site - 12565619

SDG: Eddy County NM

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Matrix</b>	<b>Collected</b>	<b>Received</b>
880-7292-1	AH1 - 1'	Solid	10/14/21 11:00	10/18/21 09:45
880-7292-2	AH1 - 3'	Solid	10/14/21 11:05	10/18/21 09:45
880-7292-3	AH2 - 2'	Solid	10/14/21 11:20	10/18/21 09:45
880-7292-4	AH2 - 3'	Solid	10/14/21 11:25	10/18/21 09:45
880-7292-5	AH3 - 1'	Solid	10/14/21 11:55	10/18/21 09:45
880-7292-6	AH3 - 3'	Solid	10/14/21 12:00	10/18/21 09:45
880-7292-7	AH3 - 5'	Solid	10/14/21 12:05	10/18/21 09:45
880-7292-8	AH4 - 1'	Solid	10/14/21 12:40	10/18/21 09:45
880-7292-9	AH4 - 3'	Solid	10/14/21 12:45	10/18/21 09:45

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Xenon Laboratories

1102 Environmental Law of Texas

880-7792 Chain of Custody

## Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 880-7292-1  
SDG Number: Eddy County NM**Login Number:** 7292**List Source:** Eurofins Midland**List Number:** 1**Creator:** Kramer, Jessica

Question	Answer	Comment	
The cooler's custody seal, if present, is intact.	N/A		1
Sample custody seals, if present, are intact.	N/A		2
The cooler or samples do not appear to have been compromised or tampered with.	True		3
Samples were received on ice.	True		4
Cooler Temperature is acceptable.	True		5
Cooler Temperature is recorded.	True		6
COC is present.	True		7
COC is filled out in ink and legible.	True		8
COC is filled out with all pertinent information.	True		9
Is the Field Sampler's name present on COC?	True		10
There are no discrepancies between the containers received and the COC.	True		11
Samples are received within Holding Time (excluding tests with immediate HTs)	True		12
Sample containers have legible labels.	True		13
Containers are not broken or leaking.	True		14
Sample collection date/times are provided.	True		
Appropriate sample containers are used.	True		
Sample bottles are completely filled.	True		
Sample Preservation Verified.	True		
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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## ANALYTICAL REPORT

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

Laboratory Job ID: 880-9353-1

Laboratory Sample Delivery Group: Eddy County, NM  
Client Project/Site: Snapping Pumps

For:  
GHD Services Inc.  
2135 South Loop 250 West  
Midland, Texas 79703

Attn: Becky Haskell

*Debbie Simmons*

Authorized for release by:  
12/28/2021 10:06:41 AM

Debbie Simmons, Project Manager  
(832)986-6768  
[debbie.simmons@eurofinset.com](mailto:debbie.simmons@eurofinset.com)

### LINKS

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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.

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Laboratory Job ID: 880-9353-1  
SDG: Eddy County, NM

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**Definitions/Glossary**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9353-1  
 SDG: Eddy County, NM

**Qualifiers****GC VOA**

<b>Qualifier</b>	<b>Qualifier Description</b>
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

**GC Semi VOA**

<b>Qualifier</b>	<b>Qualifier Description</b>
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

**HPLC/IC**

<b>Qualifier</b>	<b>Qualifier Description</b>
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

**Glossary**

<b>Abbreviation</b>	<b>These commonly used abbreviations may or may not be present in this report.</b>
□	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)

**Definitions/Glossary**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9353-1  
SDG: Eddy County, NM

**Glossary (Continued)**

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

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Eurofins Xenco, Midland

**Case Narrative**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9353-1  
SDG: Eddy County, NM

**Job ID: 880-9353-1****Laboratory: Eurofins Xenco, Midland****Narrative****Job Narrative  
880-9353-1****Receipt**

The samples were received on 12/14/2021 3:44 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 time was 9.8°C

**GC VOA**

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

**GC Semi VOA**

Method 8015MOD\_NM: The method blank for preparation batch 880-14812 and analytical batch 880-15015 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

**HPLC/IC**

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

**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9353-1  
SDG: Eddy County, NM

**Client Sample ID: BH-1**  
Date Collected: 12/13/21 11:30  
Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-1**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		12/15/21 08:29	12/15/21 22:47	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		12/15/21 08:29	12/15/21 22:47	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		12/15/21 08:29	12/15/21 22:47	1
m-Xylene & p-Xylene	<0.00101	U F1 F2	0.00399	0.00101	mg/Kg		12/15/21 08:29	12/15/21 22:47	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		12/15/21 08:29	12/15/21 22:47	1
Xylenes, Total	<0.00101	U F1	0.00399	0.00101	mg/Kg		12/15/21 08:29	12/15/21 22:47	1
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)		121		70 - 130			12/15/21 08:29	12/15/21 22:47	1
1,4-Difluorobenzene (Surr)		105		70 - 130			12/15/21 08:29	12/15/21 22:47	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			12/21/21 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	56.4		50.0	15.0	mg/Kg			12/27/21 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	37.6	J B	50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 11:08	1
Diesel Range Organics (Over C10-C28)	18.8	J	50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 11:08	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 11:08	1
<b>Surrogate</b>									<b>Dil Fac</b>
1-Chlorooctane	98		70 - 130				12/15/21 10:25	12/17/21 11:08	1
o-Terphenyl	96		70 - 130				12/15/21 10:25	12/17/21 11:08	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.0		4.98	0.855	mg/Kg			12/18/21 13:47	1

**Client Sample ID: BH-2****Lab Sample ID: 880-9353-2**

Date Collected: 12/13/21 11:35  
Date Received: 12/14/21 15:44

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000981	J	0.00202	0.000388	mg/Kg		12/15/21 08:29	12/15/21 23:07	1
Toluene	0.00107	J	0.00202	0.000460	mg/Kg		12/15/21 08:29	12/15/21 23:07	1
Ethylbenzene	<0.000570	U	0.00202	0.000570	mg/Kg		12/15/21 08:29	12/15/21 23:07	1
m-Xylene & p-Xylene	<0.00102	U	0.00403	0.00102	mg/Kg		12/15/21 08:29	12/15/21 23:07	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		12/15/21 08:29	12/15/21 23:07	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg		12/15/21 08:29	12/15/21 23:07	1
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)		113		70 - 130			12/15/21 08:29	12/15/21 23:07	1
1,4-Difluorobenzene (Surr)		97		70 - 130			12/15/21 08:29	12/15/21 23:07	1

Eurofins Xenco, Midland

**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9353-1  
SDG: Eddy County, NM

**Client Sample ID: BH-2**  
Date Collected: 12/13/21 11:35  
Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-2**  
Matrix: Solid

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00205	J	0.00403	0.00102	mg/Kg			12/21/21 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	31.6	J	49.9	15.0	mg/Kg			12/27/21 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	31.6	J B	49.9	15.0	mg/Kg		12/15/21 10:25	12/17/21 12:14	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		12/15/21 10:25	12/17/21 12:14	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		12/15/21 10:25	12/17/21 12:14	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	88		70 - 130				12/15/21 10:25	12/17/21 12:14	1
<i>o</i> -Terphenyl	89		70 - 130				12/15/21 10:25	12/17/21 12:14	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.17		4.99	0.857	mg/Kg			12/18/21 13:53	1

**Client Sample ID: BH-3**

Date Collected: 12/13/21 11:40  
Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-3**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		12/15/21 08:29	12/15/21 23:27	1
Toluene	0.000864	J	0.00199	0.000454	mg/Kg		12/15/21 08:29	12/15/21 23:27	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		12/15/21 08:29	12/15/21 23:27	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		12/15/21 08:29	12/15/21 23:27	1
<i>o</i> -Xylene	0.000940	J	0.00199	0.000343	mg/Kg		12/15/21 08:29	12/15/21 23:27	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		12/15/21 08:29	12/15/21 23:27	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	112		70 - 130				12/15/21 08:29	12/15/21 23:27	1
1,4-Difluorobenzene (Surr)	92		70 - 130				12/15/21 08:29	12/15/21 23:27	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00180	J	0.00398	0.00101	mg/Kg			12/21/21 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	33.7	J	50.0	15.0	mg/Kg			12/27/21 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	33.7	J B	50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 12:35	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 12:35	1

Eurofins Xenco, Midland

**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9353-1  
SDG: Eddy County, NM

**Client Sample ID: BH-3**  
Date Collected: 12/13/21 11:40  
Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-3**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 12:35	1
<b>Surrogate</b>									
1-Chlorooctane	89		70 - 130				12/15/21 10:25	12/17/21 12:35	1
o-Terphenyl	90		70 - 130				12/15/21 10:25	12/17/21 12:35	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	226		4.95	0.850	mg/Kg			12/18/21 14:13	1

**Client Sample ID: BH-4**

**Lab Sample ID: 880-9353-4**  
Matrix: Solid

Date Collected: 12/13/21 11:45  
Date Received: 12/14/21 15:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000745	J	0.00199	0.000383	mg/Kg		12/15/21 08:29	12/15/21 23:48	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		12/15/21 08:29	12/15/21 23:48	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		12/15/21 08:29	12/15/21 23:48	1
m-Xylene & p-Xylene	0.00178	J	0.00398	0.00101	mg/Kg		12/15/21 08:29	12/15/21 23:48	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		12/15/21 08:29	12/15/21 23:48	1
Xylenes, Total	0.00178	J	0.00398	0.00101	mg/Kg		12/15/21 08:29	12/15/21 23:48	1
<b>Surrogate</b>									
4-Bromofluorobenzene (Surr)	117		70 - 130				12/15/21 08:29	12/15/21 23:48	1
1,4-Difluorobenzene (Surr)	95		70 - 130				12/15/21 08:29	12/15/21 23:48	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00253	J	0.00398	0.00101	mg/Kg			12/21/21 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	32.4	J	50.0	15.0	mg/Kg			12/27/21 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	32.4	J B	50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 12:57	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 12:57	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 12:57	1
<b>Surrogate</b>									
1-Chlorooctane	93		70 - 130				12/15/21 10:25	12/17/21 12:57	1
o-Terphenyl	94		70 - 130				12/15/21 10:25	12/17/21 12:57	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.22		5.00	0.858	mg/Kg			12/18/21 14:20	1

Eurofins Xenco, Midland

**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9353-1  
SDG: Eddy County, NM

**Client Sample ID: BH-5**  
Date Collected: 12/13/21 11:50  
Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-5**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		12/15/21 08:29	12/16/21 00:08	1
Toluene	<b>0.0200</b>		0.00200	0.000457	mg/Kg		12/15/21 08:29	12/16/21 00:08	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		12/15/21 08:29	12/16/21 00:08	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		12/15/21 08:29	12/16/21 00:08	1
<b>o-Xylene</b>	<b>0.000703</b>	<b>J</b>	0.00200	0.000345	mg/Kg		12/15/21 08:29	12/16/21 00:08	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		12/15/21 08:29	12/16/21 00:08	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	124		70 - 130				12/15/21 08:29	12/16/21 00:08	1
1,4-Difluorobenzene (Surr)	96		70 - 130				12/15/21 08:29	12/16/21 00:08	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<b>0.00270</b>	<b>J</b>	0.00401	0.00101	mg/Kg			12/21/21 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<b>45.4</b>	<b>J</b>	50.0	15.0	mg/Kg			12/27/21 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline Range Organics (GRO)-C6-C10</b>	<b>45.4</b>	<b>J B</b>	50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 13:19	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 13:19	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 13:19	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	120		70 - 130				12/15/21 10:25	12/17/21 13:19	1
<b>o-Terphenyl</b>	<b>122</b>		<b>70 - 130</b>				12/15/21 10:25	12/17/21 13:19	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<b>6.25</b>		5.04	0.865	mg/Kg			12/18/21 14:27	1

**Client Sample ID: BH-6****Lab Sample ID: 880-9353-6**

Date Collected: 12/13/21 11:55  
Date Received: 12/14/21 15:44

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		12/15/21 08:29	12/16/21 00:29	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg		12/15/21 08:29	12/16/21 00:29	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg		12/15/21 08:29	12/16/21 00:29	1
m-Xylene & p-Xylene	<0.00101	U	0.00402	0.00101	mg/Kg		12/15/21 08:29	12/16/21 00:29	1
<b>o-Xylene</b>	<b>&lt;0.000345</b>	<b>U</b>	0.00201	0.000345	mg/Kg		12/15/21 08:29	12/16/21 00:29	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		12/15/21 08:29	12/16/21 00:29	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	117		70 - 130				12/15/21 08:29	12/16/21 00:29	1
1,4-Difluorobenzene (Surr)	96		70 - 130				12/15/21 08:29	12/16/21 00:29	1

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**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9353-1  
SDG: Eddy County, NM

**Client Sample ID: BH-6**  
Date Collected: 12/13/21 11:55  
Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-6**  
Matrix: Solid

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00402	0.00101	mg/Kg			12/21/21 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	29.4	J	49.9	15.0	mg/Kg			12/27/21 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	29.4	J B	49.9	15.0	mg/Kg		12/15/21 10:25	12/17/21 13:41	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		12/15/21 10:25	12/17/21 13:41	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		12/15/21 10:25	12/17/21 13:41	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	96		70 - 130				12/15/21 10:25	12/17/21 13:41	1
<i>o</i> -Terphenyl	99		70 - 130				12/15/21 10:25	12/17/21 13:41	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.41		4.98	0.855	mg/Kg			12/18/21 14:33	1

**Client Sample ID: BH-7****Lab Sample ID: 880-9353-7**

Date Collected: 12/13/21 12:00  
Date Received: 12/14/21 15:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		12/15/21 08:29	12/16/21 00:49	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		12/15/21 08:29	12/16/21 00:49	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		12/15/21 08:29	12/16/21 00:49	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		12/15/21 08:29	12/16/21 00:49	1
<i>o</i> -Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		12/15/21 08:29	12/16/21 00:49	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		12/15/21 08:29	12/16/21 00:49	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	121		70 - 130				12/15/21 08:29	12/16/21 00:49	1
1,4-Difluorobenzene (Surr)	88		70 - 130				12/15/21 08:29	12/16/21 00:49	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			12/21/21 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	39.6	J	50.0	15.0	mg/Kg			12/27/21 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	39.6	J B	50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 14:03	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 14:03	1

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**Client Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9353-1  
 SDG: Eddy County, NM

**Client Sample ID: BH-7**  
 Date Collected: 12/13/21 12:00  
 Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-7**  
 Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 14:03	1
<b>Surrogate</b>									
1-Chlorooctane	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
93			70 - 130				12/15/21 10:25	12/17/21 14:03	1
o-Terphenyl	95		70 - 130				12/15/21 10:25	12/17/21 14:03	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.1		4.98	0.855	mg/Kg			12/18/21 14:40	1

**Client Sample ID: BH-8**

**Lab Sample ID: 880-9353-8**  
 Matrix: Solid

Date Collected: 12/13/21 12:10  
 Date Received: 12/14/21 15:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		12/15/21 08:29	12/16/21 01:09	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		12/15/21 08:29	12/16/21 01:09	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		12/15/21 08:29	12/16/21 01:09	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		12/15/21 08:29	12/16/21 01:09	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		12/15/21 08:29	12/16/21 01:09	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		12/15/21 08:29	12/16/21 01:09	1
<b>Surrogate</b>									
4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
127			70 - 130				12/15/21 08:29	12/16/21 01:09	1
1,4-Difluorobenzene (Surr)	102		70 - 130				12/15/21 08:29	12/16/21 01:09	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			12/21/21 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	55.2		50.0	15.0	mg/Kg			12/27/21 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	36.5	J B	50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 14:25	1
Diesel Range Organics (Over C10-C28)	18.7	J	50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 14:25	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 14:25	1
<b>Surrogate</b>									
1-Chlorooctane	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
90			70 - 130				12/15/21 10:25	12/17/21 14:25	1
o-Terphenyl	90		70 - 130				12/15/21 10:25	12/17/21 14:25	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.02	F1	4.95	0.850	mg/Kg			12/18/21 14:47	1

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**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9353-1  
SDG: Eddy County, NM

**Client Sample ID: BH-9**  
Date Collected: 12/13/21 12:15  
Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-9**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000399	J	0.00202	0.000388	mg/Kg		12/15/21 08:29	12/16/21 01:30	1
Toluene	0.00107	J	0.00202	0.000460	mg/Kg		12/15/21 08:29	12/16/21 01:30	1
Ethylbenzene	<0.000570	U	0.00202	0.000570	mg/Kg		12/15/21 08:29	12/16/21 01:30	1
m-Xylene & p-Xylene	0.00146	J	0.00403	0.00102	mg/Kg		12/15/21 08:29	12/16/21 01:30	1
o-Xylene	0.000711	J	0.00202	0.000347	mg/Kg		12/15/21 08:29	12/16/21 01:30	1
Xylenes, Total	0.00217	J	0.00403	0.00102	mg/Kg		12/15/21 08:29	12/16/21 01:30	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	55	S1-	70 - 130				12/15/21 08:29	12/16/21 01:30	1
1,4-Difluorobenzene (Surr)	93		70 - 130				12/15/21 08:29	12/16/21 01:30	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00364	J	0.00403	0.00102	mg/Kg			12/21/21 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	23.7	J	49.9	15.0	mg/Kg			12/27/21 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.7	J B	49.9	15.0	mg/Kg		12/15/21 10:25	12/17/21 14:47	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		12/15/21 10:25	12/17/21 14:47	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		12/15/21 10:25	12/17/21 14:47	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	90		70 - 130				12/15/21 10:25	12/17/21 14:47	1
o-Terphenyl	90		70 - 130				12/15/21 10:25	12/17/21 14:47	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.6		5.01	0.860	mg/Kg			12/18/21 15:07	1

**Client Sample ID: BH-10****Lab Sample ID: 880-9353-10**

Date Collected: 12/13/21 12:30  
Date Received: 12/14/21 15:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00110	J	0.00199	0.000383	mg/Kg		12/15/21 08:29	12/16/21 01:50	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		12/15/21 08:29	12/16/21 01:50	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		12/15/21 08:29	12/16/21 01:50	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		12/15/21 08:29	12/16/21 01:50	1
o-Xylene	0.000510	J	0.00199	0.000342	mg/Kg		12/15/21 08:29	12/16/21 01:50	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		12/15/21 08:29	12/16/21 01:50	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	120		70 - 130				12/15/21 08:29	12/16/21 01:50	1
1,4-Difluorobenzene (Surr)	89		70 - 130				12/15/21 08:29	12/16/21 01:50	1

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**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9353-1  
SDG: Eddy County, NM

**Client Sample ID: BH-10**  
Date Collected: 12/13/21 12:30  
Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-10**  
Matrix: Solid

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00161	J	0.00398	0.00100	mg/Kg			12/21/21 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	34.0	J	49.9	15.0	mg/Kg			12/27/21 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	34.0	J B	49.9	15.0	mg/Kg		12/15/21 10:25	12/17/21 15:08	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		12/15/21 10:25	12/17/21 15:08	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		12/15/21 10:25	12/17/21 15:08	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	90		70 - 130				12/15/21 10:25	12/17/21 15:08	1
<i>o</i> -Terphenyl	89		70 - 130				12/15/21 10:25	12/17/21 15:08	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.98		4.97	0.853	mg/Kg			12/18/21 15:14	1

**Client Sample ID: BH-13**

Date Collected: 12/13/21 12:30  
Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-11**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		12/15/21 08:29	12/16/21 03:40	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg		12/15/21 08:29	12/16/21 03:40	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		12/15/21 08:29	12/16/21 03:40	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		12/15/21 08:29	12/16/21 03:40	1
<i>o</i> -Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		12/15/21 08:29	12/16/21 03:40	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		12/15/21 08:29	12/16/21 03:40	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	100		70 - 130				12/15/21 08:29	12/16/21 03:40	1
1,4-Difluorobenzene (Surr)	80		70 - 130				12/15/21 08:29	12/16/21 03:40	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00402	0.00102	mg/Kg			12/21/21 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	47.9	J	50.0	15.0	mg/Kg			12/27/21 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	47.9	J B	50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 15:52	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 15:52	1

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**Client Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9353-1  
 SDG: Eddy County, NM

**Client Sample ID: BH-13**  
 Date Collected: 12/13/21 12:30  
 Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-11**  
 Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 15:52	1
<b>Surrogate</b>									
1-Chlorooctane	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
106			70 - 130				12/15/21 10:25	12/17/21 15:52	1
o-Terphenyl			70 - 130				12/15/21 10:25	12/17/21 15:52	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.92	J	4.98	0.855	mg/Kg			12/18/21 15:34	1

**Client Sample ID: BH-12**

**Lab Sample ID: 880-9353-12**  
 Matrix: Solid

Date Collected: 12/13/21 12:25  
 Date Received: 12/14/21 15:44

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		12/15/21 08:29	12/16/21 04:00	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		12/15/21 08:29	12/16/21 04:00	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		12/15/21 08:29	12/16/21 04:00	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		12/15/21 08:29	12/16/21 04:00	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		12/15/21 08:29	12/16/21 04:00	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		12/15/21 08:29	12/16/21 04:00	1
<b>Surrogate</b>									
4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
103			70 - 130				12/15/21 08:29	12/16/21 04:00	1
1,4-Difluorobenzene (Surr)			70 - 130				12/15/21 08:29	12/16/21 04:00	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg			12/21/21 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	32.6	J	49.8	14.9	mg/Kg			12/27/21 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	32.6	J B	49.8	14.9	mg/Kg		12/15/21 10:25	12/17/21 16:13	1
Diesel Range Organics (Over C10-C28)	<14.9	U	49.8	14.9	mg/Kg		12/15/21 10:25	12/17/21 16:13	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		12/15/21 10:25	12/17/21 16:13	1
<b>Surrogate</b>									
1-Chlorooctane	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
89			70 - 130				12/15/21 10:25	12/17/21 16:13	1
o-Terphenyl			70 - 130				12/15/21 10:25	12/17/21 16:13	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.76		4.95	0.850	mg/Kg			12/18/21 15:40	1

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**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9353-1  
SDG: Eddy County, NM

**Client Sample ID: BH-11**  
Date Collected: 12/13/21 12:20  
Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-13**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		12/15/21 08:29	12/16/21 04:21	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg		12/15/21 08:29	12/16/21 04:21	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg		12/15/21 08:29	12/16/21 04:21	1
m-Xylene & p-Xylene	<0.00101	U	0.00402	0.00101	mg/Kg		12/15/21 08:29	12/16/21 04:21	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		12/15/21 08:29	12/16/21 04:21	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		12/15/21 08:29	12/16/21 04:21	1
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	102			70 - 130			12/15/21 08:29	12/16/21 04:21	1
1,4-Difluorobenzene (Surr)	102			70 - 130			12/15/21 08:29	12/16/21 04:21	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00402	0.00101	mg/Kg			12/21/21 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	32.1	J	50.0	15.0	mg/Kg			12/27/21 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	32.1	J B	50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 16:35	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 16:35	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 16:35	1
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	102			70 - 130			12/15/21 10:25	12/17/21 16:35	1
o-Terphenyl	103			70 - 130			12/15/21 10:25	12/17/21 16:35	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.69		5.00	0.858	mg/Kg			12/18/21 15:47	1

**Client Sample ID: SW-1****Lab Sample ID: 880-9353-14**

Date Collected: 12/13/21 12:45  
Date Received: 12/14/21 15:44

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		12/15/21 08:29	12/16/21 04:41	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg		12/15/21 08:29	12/16/21 04:41	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		12/15/21 08:29	12/16/21 04:41	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		12/15/21 08:29	12/16/21 04:41	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		12/15/21 08:29	12/16/21 04:41	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		12/15/21 08:29	12/16/21 04:41	1
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	98			70 - 130			12/15/21 08:29	12/16/21 04:41	1
1,4-Difluorobenzene (Surr)	85			70 - 130			12/15/21 08:29	12/16/21 04:41	1

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**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9353-1  
SDG: Eddy County, NM

**Client Sample ID: SW-1**

Date Collected: 12/13/21 12:45  
Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-14**

Matrix: Solid

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00402	0.00102	mg/Kg			12/21/21 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	36.7	J	50.0	15.0	mg/Kg			12/27/21 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	36.7	J B	50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 16:57	1

Diesel Range Organics (Over C10-C28)  
Oil Range Organics (Over C28-C36)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Chlorooctane	<15.0	U	50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 16:57	1
o-Terphenyl	<15.0	U	50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 16:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	12/15/21 10:25	12/17/21 16:57	1
o-Terphenyl	85		70 - 130	12/15/21 10:25	12/17/21 16:57	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.69		5.01	0.860	mg/Kg			12/18/21 15:53	1

**Client Sample ID: SW-2**

Date Collected: 12/13/21 12:50  
Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-15**

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		12/15/21 08:29	12/16/21 05:02	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		12/15/21 08:29	12/16/21 05:02	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		12/15/21 08:29	12/16/21 05:02	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		12/15/21 08:29	12/16/21 05:02	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		12/15/21 08:29	12/16/21 05:02	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		12/15/21 08:29	12/16/21 05:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	12/15/21 08:29	12/16/21 05:02	1
1,4-Difluorobenzene (Surr)	88		70 - 130	12/15/21 08:29	12/16/21 05:02	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg			12/21/21 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	47.5	J	50.0	15.0	mg/Kg			12/27/21 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	29.6	J B	50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 17:18	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	17.9	J	50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 17:18	1

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**Client Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9353-1  
 SDG: Eddy County, NM

**Client Sample ID: SW-2**

Date Collected: 12/13/21 12:50  
 Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-15**

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 17:18	1
<b>Surrogate</b>									
1-Chlorooctane	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
91			70 - 130				12/15/21 10:25	12/17/21 17:18	1
o-Terphenyl	91		70 - 130				12/15/21 10:25	12/17/21 17:18	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.17		4.95	0.850	mg/Kg			12/18/21 16:00	1

**Client Sample ID: SW-3**

Date Collected: 12/13/21 12:55  
 Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-16**

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00112	J	0.00200	0.000384	mg/Kg		12/15/21 08:29	12/16/21 05:22	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		12/15/21 08:29	12/16/21 05:22	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		12/15/21 08:29	12/16/21 05:22	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		12/15/21 08:29	12/16/21 05:22	1
<b>o-Xylene</b>	<b>0.00123</b>	<b>J</b>	0.00200	0.000343	mg/Kg		12/15/21 08:29	12/16/21 05:22	1
<b>Xylenes, Total</b>	<b>0.00123</b>	<b>J</b>	0.00399	0.00101	mg/Kg		12/15/21 08:29	12/16/21 05:22	1
<b>Surrogate</b>									
4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
119			70 - 130				12/15/21 08:29	12/16/21 05:22	1
1,4-Difluorobenzene (Surr)	91		70 - 130				12/15/21 08:29	12/16/21 05:22	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00235	J	0.00399	0.00101	mg/Kg			12/21/21 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	29.9	J	49.9	15.0	mg/Kg			12/27/21 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	29.9	J B	49.9	15.0	mg/Kg		12/15/21 10:25	12/17/21 17:39	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		12/15/21 10:25	12/17/21 17:39	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		12/15/21 10:25	12/17/21 17:39	1
<b>Surrogate</b>									
1-Chlorooctane	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
94			70 - 130				12/15/21 10:25	12/17/21 17:39	1
o-Terphenyl	96		70 - 130				12/15/21 10:25	12/17/21 17:39	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.63		5.04	0.865	mg/Kg			12/18/21 16:07	1

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**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9353-1  
SDG: Eddy County, NM

**Client Sample ID: SW-4**

Date Collected: 12/13/21 13:00  
Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-17**

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		12/15/21 08:29	12/16/21 05:43	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		12/15/21 08:29	12/16/21 05:43	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		12/15/21 08:29	12/16/21 05:43	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		12/15/21 08:29	12/16/21 05:43	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		12/15/21 08:29	12/16/21 05:43	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		12/15/21 08:29	12/16/21 05:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130				12/15/21 08:29	12/16/21 05:43	1
1,4-Difluorobenzene (Surr)	78		70 - 130				12/15/21 08:29	12/16/21 05:43	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			12/21/21 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	29.1	J	50.0	15.0	mg/Kg			12/27/21 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline Range Organics (GRO)-C6-C10</b>	<b>29.1</b>	<b>J B</b>	50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 17:59	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 17:59	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 17:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				12/15/21 10:25	12/17/21 17:59	1
o-Terphenyl	94		70 - 130				12/15/21 10:25	12/17/21 17:59	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.04		5.00	0.858	mg/Kg			12/18/21 16:14	1

**Client Sample ID: SW-5**

Date Collected: 12/13/21 13:05  
Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-18**

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		12/15/21 08:29	12/16/21 06:03	1
<b>Toluene</b>	<b>0.00137</b>	<b>J</b>	0.00200	0.000456	mg/Kg		12/15/21 08:29	12/16/21 06:03	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		12/15/21 08:29	12/16/21 06:03	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		12/15/21 08:29	12/16/21 06:03	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		12/15/21 08:29	12/16/21 06:03	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		12/15/21 08:29	12/16/21 06:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				12/15/21 08:29	12/16/21 06:03	1
1,4-Difluorobenzene (Surr)	87		70 - 130				12/15/21 08:29	12/16/21 06:03	1

Eurofins Xenco, Midland

**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9353-1  
SDG: Eddy County, NM

**Client Sample ID: SW-5**  
Date Collected: 12/13/21 13:05  
Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-18**  
Matrix: Solid

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00137	J	0.00400	0.00101	mg/Kg			12/21/21 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	34.7	J	49.9	15.0	mg/Kg			12/27/21 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	34.7	J B	49.9	15.0	mg/Kg		12/15/21 10:25	12/17/21 18:20	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		12/15/21 10:25	12/17/21 18:20	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		12/15/21 10:25	12/17/21 18:20	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	93		70 - 130				12/15/21 10:25	12/17/21 18:20	1
<i>o</i> -Terphenyl	94		70 - 130				12/15/21 10:25	12/17/21 18:20	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.857	U	4.99	0.857	mg/Kg			12/17/21 21:40	1

**Client Sample ID: SW-6**

Date Collected: 12/13/21 13:10  
Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-19**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U	0.00202	0.000388	mg/Kg		12/15/21 08:29	12/16/21 06:23	1
Toluene	<0.000460	U	0.00202	0.000460	mg/Kg		12/15/21 08:29	12/16/21 06:23	1
Ethylbenzene	<0.000570	U	0.00202	0.000570	mg/Kg		12/15/21 08:29	12/16/21 06:23	1
m-Xylene & p-Xylene	<0.00102	U	0.00403	0.00102	mg/Kg		12/15/21 08:29	12/16/21 06:23	1
<i>o</i> -Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		12/15/21 08:29	12/16/21 06:23	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg		12/15/21 08:29	12/16/21 06:23	1

**Surrogate**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130	12/15/21 08:29	12/16/21 06:23	1
1,4-Difluorobenzene (Surr)	95		70 - 130	12/15/21 08:29	12/16/21 06:23	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00403	0.00102	mg/Kg			12/21/21 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	82.2		50.0	15.0	mg/Kg			12/27/21 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	38.6	J B	50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 18:41	1
Diesel Range Organics (Over C10-C28)	43.6	J	50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 18:41	1

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**Client Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9353-1  
 SDG: Eddy County, NM

**Client Sample ID: SW-6**

Date Collected: 12/13/21 13:10  
 Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-19**

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 18:41	1
<b>Surrogate</b>									
1-Chlorooctane	85		70 - 130				12/15/21 10:25	12/17/21 18:41	1
o-Terphenyl	83		70 - 130				12/15/21 10:25	12/17/21 18:41	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.38	J	4.95	0.850	mg/Kg			12/17/21 22:13	1

**Client Sample ID: SW-7**

Date Collected: 12/13/21 13:15  
 Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-20**

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00202	0.000389	mg/Kg		12/15/21 08:29	12/16/21 06:44	1
Toluene	<0.000461	U	0.00202	0.000461	mg/Kg		12/15/21 08:29	12/16/21 06:44	1
Ethylbenzene	<0.000571	U	0.00202	0.000571	mg/Kg		12/15/21 08:29	12/16/21 06:44	1
m-Xylene & p-Xylene	<0.00102	U	0.00404	0.00102	mg/Kg		12/15/21 08:29	12/16/21 06:44	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		12/15/21 08:29	12/16/21 06:44	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg		12/15/21 08:29	12/16/21 06:44	1
<b>Surrogate</b>									
4-Bromofluorobenzene (Surr)	120		70 - 130				12/15/21 08:29	12/16/21 06:44	1
1,4-Difluorobenzene (Surr)	101		70 - 130				12/15/21 08:29	12/16/21 06:44	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00404	0.00102	mg/Kg			12/21/21 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	241		49.9	15.0	mg/Kg			12/27/21 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	39.1	J B	49.9	15.0	mg/Kg		12/15/21 10:25	12/17/21 19:01	1
Diesel Range Organics (Over C10-C28)	202		49.9	15.0	mg/Kg		12/15/21 10:25	12/17/21 19:01	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		12/15/21 10:25	12/17/21 19:01	1
<b>Surrogate</b>									
1-Chlorooctane	92		70 - 130				12/15/21 10:25	12/17/21 19:01	1
o-Terphenyl	89		70 - 130				12/15/21 10:25	12/17/21 19:01	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.5		5.00	0.858	mg/Kg			12/17/21 22:24	1

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**Client Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9353-1  
 SDG: Eddy County, NM

**Client Sample ID: SW-8**

Date Collected: 12/13/21 13:20  
 Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-21**

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg		12/15/21 07:30	12/16/21 03:44	1
Toluene	0.00135	J	0.00198	0.000451	mg/Kg		12/15/21 07:30	12/16/21 03:44	1
Ethylbenzene	0.000727	J	0.00198	0.000559	mg/Kg		12/15/21 07:30	12/16/21 03:44	1
m-Xylene & p-Xylene	0.00238	J	0.00396	0.00100	mg/Kg		12/15/21 07:30	12/16/21 03:44	1
o-Xylene	0.00119	J	0.00198	0.000341	mg/Kg		12/15/21 07:30	12/16/21 03:44	1
Xylenes, Total	0.00357	J	0.00396	0.00100	mg/Kg		12/15/21 07:30	12/16/21 03:44	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	120		70 - 130				12/15/21 07:30	12/16/21 03:44	1
1,4-Difluorobenzene (Surr)	107		70 - 130				12/15/21 07:30	12/16/21 03:44	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00565		0.00396	0.00100	mg/Kg			12/21/21 14:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	118		50.0	15.0	mg/Kg			12/27/21 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.3	J	50.0	15.0	mg/Kg		12/15/21 10:41	12/17/21 20:45	1
Diesel Range Organics (Over C10-C28)	95.5		50.0	15.0	mg/Kg		12/15/21 10:41	12/17/21 20:45	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/15/21 10:41	12/17/21 20:45	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	93		70 - 130				12/15/21 10:41	12/17/21 20:45	1
o-Terphenyl	95		70 - 130				12/15/21 10:41	12/17/21 20:45	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.19		5.04	0.865	mg/Kg			12/17/21 22:35	1

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**Surrogate Summary**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9353-1  
 SDG: Eddy County, NM

**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)
880-9353-1	BH-1	121	105
880-9353-1 MS	BH-1	139 S1+	93
880-9353-1 MSD	BH-1	120	101
880-9353-2	BH-2	113	97
880-9353-3	BH-3	112	92
880-9353-4	BH-4	117	95
880-9353-5	BH-5	124	96
880-9353-6	BH-6	117	96
880-9353-7	BH-7	121	88
880-9353-8	BH-8	127	102
880-9353-9	BH-9	55 S1-	93
880-9353-10	BH-10	120	89
880-9353-11	BH-13	100	80
880-9353-12	BH-12	103	88
880-9353-13	BH-11	102	102
880-9353-14	SW-1	98	85
880-9353-15	SW-2	127	88
880-9353-16	SW-3	119	91
880-9353-17	SW-4	132 S1+	78
880-9353-18	SW-5	117	87
880-9353-19	SW-6	76	95
880-9353-20	SW-7	120	101
880-9353-21	SW-8	120	107
LCS 880-14781/1-A	Lab Control Sample	106	104
LCS 880-14804/1-A	Lab Control Sample	107	94
LCSD 880-14781/2-A	Lab Control Sample Dup	104	106
LCSD 880-14804/2-A	Lab Control Sample Dup	132 S1+	101
MB 880-14759/5-A	Method Blank	119	94
MB 880-14762/5-A	Method Blank	127	105
MB 880-14781/5-A	Method Blank	105	95
MB 880-14804/5-A	Method Blank	125	109

**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)
880-9353-1	BH-1	98	96
880-9353-1 MS	BH-1	82	84
880-9353-1 MSD	BH-1	83	83
880-9353-2	BH-2	88	89
880-9353-3	BH-3	89	90
880-9353-4	BH-4	93	94
880-9353-5	BH-5	120	122
880-9353-6	BH-6	96	99

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**Surrogate Summary**

Client: GHD Services Inc.

Job ID: 880-9353-1

Project/Site: Snapping Pumps

SDG: Eddy County, NM

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		1CO1 (70-130)	OTPH1 (70-130)	
880-9353-7	BH-7	93	95	
880-9353-8	BH-8	90	90	
880-9353-9	BH-9	90	90	
880-9353-10	BH-10	90	89	
880-9353-11	BH-13	106	105	
880-9353-12	BH-12	89	90	
880-9353-13	BH-11	102	103	
880-9353-14	SW-1	88	85	
880-9353-15	SW-2	91	91	
880-9353-16	SW-3	94	96	
880-9353-17	SW-4	91	94	
880-9353-18	SW-5	93	94	
880-9353-19	SW-6	85	83	
880-9353-20	SW-7	92	89	
880-9353-21	SW-8	93	95	
880-9353-21 MS	SW-8	84	88	
880-9353-21 MSD	SW-8	83	87	

**Surrogate Legend**

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

**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)		
		1CO2 (70-130)	OTPH2 (70-130)	
LCS 880-14812/2-A	Lab Control Sample	96	103	
LCS 880-14820/2-A	Lab Control Sample	98	104	
LCSD 880-14812/3-A	Lab Control Sample Dup	108	116	
LCSD 880-14820/3-A	Lab Control Sample Dup	108	115	
MB 880-14812/1-A	Method Blank	110	112	
MB 880-14820/1-A	Method Blank	119	121	

**Surrogate Legend**

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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## QC Sample Results

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9353-1  
 SDG: Eddy County, NM

**Method: 8021B - Volatile Organic Compounds (GC)****Lab Sample ID: MB 880-14759/5-A****Matrix: Solid****Analysis Batch: 14796****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 14759**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		12/14/21 12:00	12/15/21 10:42	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		12/14/21 12:00	12/15/21 10:42	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		12/14/21 12:00	12/15/21 10:42	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		12/14/21 12:00	12/15/21 10:42	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		12/14/21 12:00	12/15/21 10:42	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		12/14/21 12:00	12/15/21 10:42	1
Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	119		70 - 130	12/14/21 12:00	12/15/21 10:42	1			
1,4-Difluorobenzene (Surr)	94		70 - 130	12/14/21 12:00	12/15/21 10:42	1			

**Lab Sample ID: MB 880-14762/5-A****Matrix: Solid****Analysis Batch: 14797****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 14762**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		12/14/21 13:00	12/15/21 11:03	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		12/14/21 13:00	12/15/21 11:03	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		12/14/21 13:00	12/15/21 11:03	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		12/14/21 13:00	12/15/21 11:03	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		12/14/21 13:00	12/15/21 11:03	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		12/14/21 13:00	12/15/21 11:03	1
Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	127		70 - 130	12/14/21 13:00	12/15/21 11:03	1			
1,4-Difluorobenzene (Surr)	105		70 - 130	12/14/21 13:00	12/15/21 11:03	1			

**Lab Sample ID: MB 880-14781/5-A****Matrix: Solid****Analysis Batch: 14797****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 14781**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		12/15/21 07:30	12/15/21 21:56	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		12/15/21 07:30	12/15/21 21:56	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		12/15/21 07:30	12/15/21 21:56	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		12/15/21 07:30	12/15/21 21:56	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		12/15/21 07:30	12/15/21 21:56	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		12/15/21 07:30	12/15/21 21:56	1
Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	105		70 - 130	12/15/21 07:30	12/15/21 21:56	1			
1,4-Difluorobenzene (Surr)	95		70 - 130	12/15/21 07:30	12/15/21 21:56	1			

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**QC Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9353-1  
SDG: Eddy County, NM

**Method: 8021B - Volatile Organic Compounds (GC) (Continued)****Lab Sample ID: LCS 880-14781/1-A****Matrix: Solid****Analysis Batch: 14797****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 14781**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits	
	Added	Result	Qualifier						
Benzene	0.100	0.08250		mg/Kg		82	70 - 130		
Toluene	0.100	0.07543		mg/Kg		75	70 - 130		
Ethylbenzene	0.100	0.07558		mg/Kg		76	70 - 130		
m-Xylene & p-Xylene	0.200	0.1566		mg/Kg		78	70 - 130		
o-Xylene	0.100	0.07945		mg/Kg		79	70 - 130		
<b>Surrogate</b>	<b>LCS</b>	<b>LCS</b>							
	<b>%Recovery</b>	<b>Qualifier</b>							
4-Bromofluorobenzene (Surr)	106		70 - 130						
1,4-Difluorobenzene (Surr)	104		70 - 130						

**Lab Sample ID: LCSD 880-14781/2-A****Matrix: Solid****Analysis Batch: 14797****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 14781**

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	RPD	Limit
	Added	Result	Qualifier							
Benzene	0.100	0.08617		mg/Kg		86	70 - 130	4	35	
Toluene	0.100	0.07850		mg/Kg		79	70 - 130	4	35	
Ethylbenzene	0.100	0.07743		mg/Kg		77	70 - 130	2	35	
m-Xylene & p-Xylene	0.200	0.1597		mg/Kg		80	70 - 130	2	35	
o-Xylene	0.100	0.08121		mg/Kg		81	70 - 130	2	35	
<b>Surrogate</b>	<b>LCSD</b>	<b>LCSD</b>								
	<b>%Recovery</b>	<b>Qualifier</b>								
4-Bromofluorobenzene (Surr)	104		70 - 130							
1,4-Difluorobenzene (Surr)	106		70 - 130							

**Lab Sample ID: MB 880-14804/5-A****Matrix: Solid****Analysis Batch: 14796****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 14804**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		12/15/21 08:29	12/15/21 22:18	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		12/15/21 08:29	12/15/21 22:18	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		12/15/21 08:29	12/15/21 22:18	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		12/15/21 08:29	12/15/21 22:18	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		12/15/21 08:29	12/15/21 22:18	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		12/15/21 08:29	12/15/21 22:18	1
<b>Surrogate</b>	<b>MB</b>	<b>MB</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
	<b>%Recovery</b>	<b>Qualifier</b>							
4-Bromofluorobenzene (Surr)	125		70 - 130				12/15/21 08:29	12/15/21 22:18	1
1,4-Difluorobenzene (Surr)	109		70 - 130				12/15/21 08:29	12/15/21 22:18	1

**Lab Sample ID: LCS 880-14804/1-A****Matrix: Solid****Analysis Batch: 14796****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 14804**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits	
	Added	Result	Qualifier					
Benzene	0.100	0.08054		mg/Kg		81	70 - 130	
Toluene	0.100	0.08227		mg/Kg		82	70 - 130	

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**QC Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9353-1  
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-14804/1-A

Matrix: Solid

Analysis Batch: 14796

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14804

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits		
Ethylbenzene	0.100	0.08459		mg/Kg		85	70 - 130		
m-Xylene & p-Xylene	0.200	0.1629		mg/Kg		81	70 - 130		
o-Xylene	0.100	0.08277		mg/Kg		83	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-14804/2-A

Matrix: Solid

Analysis Batch: 14796

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14804

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	RPD		
Benzene	0.100	0.07437		mg/Kg		74	70 - 130	8	35
Toluene	0.100	0.08812		mg/Kg		88	70 - 130	7	35
Ethylbenzene	0.100	0.1023		mg/Kg		102	70 - 130	19	35
m-Xylene & p-Xylene	0.200	0.1836		mg/Kg		92	70 - 130	12	35
o-Xylene	0.100	0.09327		mg/Kg		93	70 - 130	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-9353-1 MS

Matrix: Solid

Analysis Batch: 14796

Client Sample ID: BH-1

Prep Type: Total/NA

Prep Batch: 14804

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	RPD		
Benzene	<0.000384	U	0.0996	0.08504		mg/Kg		85	70 - 130		
Toluene	<0.000455	U	0.0996	0.09643		mg/Kg		97	70 - 130		
Ethylbenzene	<0.000564	U	0.0996	0.09182		mg/Kg		92	70 - 130		
m-Xylene & p-Xylene	<0.00101	U F1 F2	0.199	0.1120	F1	mg/Kg		56	70 - 130		
o-Xylene	<0.000343	U	0.0996	0.07376		mg/Kg		74	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 880-9353-1 MSD

Matrix: Solid

Analysis Batch: 14796

Client Sample ID: BH-1

Prep Type: Total/NA

Prep Batch: 14804

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	RPD		
Benzene	<0.000384	U	0.100	0.07431		mg/Kg		74	70 - 130	13	35
Toluene	<0.000455	U	0.100	0.08697		mg/Kg		87	70 - 130	10	35
Ethylbenzene	<0.000564	U	0.100	0.07951		mg/Kg		79	70 - 130	14	35
m-Xylene & p-Xylene	<0.00101	U F1 F2	0.200	0.1607	F2	mg/Kg		80	70 - 130	36	35
o-Xylene	<0.000343	U	0.100	0.07737		mg/Kg		77	70 - 130	5	35

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**QC Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9353-1  
SDG: Eddy County, NM

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

<b>Surrogate</b>	<b>MSD</b>	<b>MSD</b>	
	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>
4-Bromofluorobenzene (Surf)	120		70 - 130
1,4-Difluorobenzene (Surf)	101		70 - 130

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

Lab Sample ID: MB 880-14812/1-A

Matrix: Solid

Analysis Batch: 15015

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14812

<b>Analyte</b>	<b>MB</b>	<b>MB</b>					<b>D</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
	<b>Result</b>	<b>Qualifier</b>		<b>RL</b>	<b>MDL</b>	<b>Unit</b>				
Gasoline Range Organics (GRO)-C6-C10	15.27	J		50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 10:03	1
Diesel Range Organics (Over C10-C28)	<15.0	U		50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 10:03	1
OII Range Organics (Over C28-C36)	<15.0	U		50.0	15.0	mg/Kg		12/15/21 10:25	12/17/21 10:03	1

<b>Surrogate</b>	<b>MB</b>	<b>MB</b>					<b>D</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>						
1-Chlorooctane	110			70 - 130				12/15/21 10:25	12/17/21 10:03	1
<i>o-Terphenyl</i>	112			70 - 130				12/15/21 10:25	12/17/21 10:03	1

Lab Sample ID: LCS 880-14812/2-A

Matrix: Solid

Analysis Batch: 15015

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14812

<b>Analyte</b>		<b>Spike</b>	<b>LCS</b>	<b>LCS</b>				<b>%Rec.</b>	
		<b>Added</b>	<b>Result</b>	<b>Qualifier</b>	<b>Unit</b>	<b>D</b>	<b>%Rec</b>		<b>Limits</b>
Gasoline Range Organics (GRO)-C6-C10		1000	857.8		mg/Kg		86		70 - 130
Diesel Range Organics (Over C10-C28)		1000	895.5		mg/Kg		90		70 - 130

<b>Surrogate</b>	<b>LCS</b>	<b>LCS</b>							
	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>					
1-Chlorooctane	96			70 - 130					
<i>o-Terphenyl</i>	103			70 - 130					

Lab Sample ID: LCSD 880-14812/3-A

Matrix: Solid

Analysis Batch: 15015

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14812

<b>Analyte</b>		<b>Spike</b>	<b>LCSD</b>	<b>LCSD</b>				<b>%Rec.</b>		<b>RPD</b>	<b>Limit</b>
		<b>Added</b>	<b>Result</b>	<b>Qualifier</b>	<b>Unit</b>	<b>D</b>	<b>%Rec</b>		<b>Limits</b>	<b>RPD</b>	<b>Limit</b>
Gasoline Range Organics (GRO)-C6-C10		1000	899.3		mg/Kg		90		70 - 130	5	20
Diesel Range Organics (Over C10-C28)		1000	945.2		mg/Kg		95		70 - 130	5	20

<b>Surrogate</b>	<b>LCSD</b>	<b>LCSD</b>									
	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>							
1-Chlorooctane	108			70 - 130							
<i>o-Terphenyl</i>	116			70 - 130							

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## QC Sample Results

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9353-1  
SDG: Eddy County, NM

**Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)****Lab Sample ID: 880-9353-1 MS****Matrix: Solid****Analysis Batch: 15015**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec.	Limits		
	Result	Qualifier	Added	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	37.6	J B	996	1006		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)	18.8	J	996	843.0		mg/Kg		83	70 - 130		
<b>Surrogate</b>	<b>MS</b>	<b>MS</b>									
	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>							
1-Chlorooctane	82			70 - 130							
<i>o-Terphenyl</i>	84			70 - 130							

**Lab Sample ID: 880-9353-1 MSD****Matrix: Solid****Analysis Batch: 15015**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	37.6	J B	995	997.4		mg/Kg		96	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	18.8	J	995	833.5		mg/Kg		82	70 - 130	1	20
<b>Surrogate</b>	<b>MSD</b>	<b>MSD</b>									
	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>							
1-Chlorooctane	83			70 - 130							
<i>o-Terphenyl</i>	83			70 - 130							

**Lab Sample ID: MB 880-14820/1-A****Matrix: Solid****Analysis Batch: 15015**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		12/15/21 10:41	12/17/21 19:43	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		12/15/21 10:41	12/17/21 19:43	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/15/21 10:41	12/17/21 19:43	1
<b>Surrogate</b>	<b>MB</b>	<b>MB</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	119		70 - 130				12/15/21 10:41	12/17/21 19:43	1
<i>o-Terphenyl</i>	121		70 - 130				12/15/21 10:41	12/17/21 19:43	1

**Lab Sample ID: LCS 880-14820/2-A****Matrix: Solid****Analysis Batch: 15015**

Analyte	Spike	LCs	LCs	Unit	D	%Rec.	Limits
		Added	Result				
Gasoline Range Organics (GRO)-C6-C10		1000	871.5	mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)		1000	909.9	mg/Kg		91	70 - 130

**Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 14820**

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**QC Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9353-1  
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-14820/2-A

Matrix: Solid

Analysis Batch: 15015

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14820

Surrogate	LCS	LCS	
	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
<i>o</i> -Terphenyl	104		70 - 130

Lab Sample ID: LCSD 880-14820/3-A

Matrix: Solid

Analysis Batch: 15015

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14820

Analyte	Spike	LCSD	LCSD		%Rec.	RPD
	Added	Result	Qualifier	Unit	D	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	921.3		mg/Kg	92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	938.2		mg/Kg	94	70 - 130

Surrogate	LCSD	LCSD	
	%Recovery	Qualifier	Limits
1-Chlorooctane	108		70 - 130
<i>o</i> -Terphenyl	115		70 - 130

Lab Sample ID: 880-9353-21 MS

Matrix: Solid

Analysis Batch: 15015

Client Sample ID: SW-8

Prep Type: Total/NA

Prep Batch: 14820

Analyte	Sample	Sample	Spike	MS	MS		%Rec.
	Result	Qualifier	Added	Result	Qualifier	Unit	D
Gasoline Range Organics (GRO)-C6-C10	22.3	J	996	1061		mg/Kg	104
Diesel Range Organics (Over C10-C28)	95.5		996	931.0		mg/Kg	84

Surrogate	MS	MS	
	%Recovery	Qualifier	Limits
1-Chlorooctane	84		70 - 130
<i>o</i> -Terphenyl	88		70 - 130

Lab Sample ID: 880-9353-21 MSD

Matrix: Solid

Analysis Batch: 15015

Client Sample ID: SW-8

Prep Type: Total/NA

Prep Batch: 14820

Analyte	Sample	Sample	Spike	MSD	MSD		%Rec.
	Result	Qualifier	Added	Result	Qualifier	Unit	D
Gasoline Range Organics (GRO)-C6-C10	22.3	J	995	1057		mg/Kg	104
Diesel Range Organics (Over C10-C28)	95.5		995	924.9		mg/Kg	83

Surrogate	MSD	MSD	
	%Recovery	Qualifier	Limits
1-Chlorooctane	83		70 - 130
<i>o</i> -Terphenyl	87		70 - 130

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**QC Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9353-1  
SDG: Eddy County, NM

**Method: 300.0 - Anions, Ion Chromatography**

Lab Sample ID: MB 880-14838/1-A

Client Sample ID: Method Blank  
Prep Type: Soluble

Matrix: Solid

Analysis Batch: 15047

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.858	U	5.00	0.858	mg/Kg			12/18/21 12:53	1

Lab Sample ID: LCS 880-14838/2-A

Client Sample ID: Lab Control Sample  
Prep Type: Soluble

Matrix: Solid

Analysis Batch: 15047

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Chloride	250	269.8		mg/Kg		108	90 - 110

Lab Sample ID: LCSD 880-14838/3-A

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

Matrix: Solid

Analysis Batch: 15047

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec.	RPD	Limit
Chloride	250	275.0		mg/Kg		110	90 - 110	2

Lab Sample ID: 880-9353-8 MS

Client Sample ID: BH-8  
Prep Type: Soluble

Matrix: Solid

Analysis Batch: 15047

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec.	Limits
Chloride	6.02	F1	248	305.4	F1	mg/Kg		121	90 - 110

Lab Sample ID: 880-9353-8 MSD

Client Sample ID: BH-8  
Prep Type: Soluble

Matrix: Solid

Analysis Batch: 15047

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec.	RPD	Limit
Chloride	6.02	F1	248	303.2	F1	mg/Kg		120	90 - 110	1

Lab Sample ID: MB 880-14839/1-A

Client Sample ID: Method Blank  
Prep Type: Soluble

Matrix: Solid

Analysis Batch: 15070

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.858	U	5.00	0.858	mg/Kg			12/17/21 15:25	1

Lab Sample ID: LCS 880-14839/2-A

Client Sample ID: Lab Control Sample  
Prep Type: Soluble

Matrix: Solid

Analysis Batch: 15070

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Chloride	250	266.5		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-14839/3-A

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

Matrix: Solid

Analysis Batch: 15070

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec.	RPD	Limit
Chloride	250	252.7		mg/Kg		101	90 - 110	5

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**QC Association Summary**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9353-1  
SDG: Eddy County, NM

**GC VOA****Prep Batch: 14759**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-14759/5-A	Method Blank	Total/NA	Solid	5035	

**Prep Batch: 14762**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-14762/5-A	Method Blank	Total/NA	Solid	5035	

**Prep Batch: 14781**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9353-21	SW-8	Total/NA	Solid	5035	
MB 880-14781/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-14781/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-14781/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

**Analysis Batch: 14796**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9353-1	BH-1	Total/NA	Solid	8021B	14804
880-9353-2	BH-2	Total/NA	Solid	8021B	14804
880-9353-3	BH-3	Total/NA	Solid	8021B	14804
880-9353-4	BH-4	Total/NA	Solid	8021B	14804
880-9353-5	BH-5	Total/NA	Solid	8021B	14804
880-9353-6	BH-6	Total/NA	Solid	8021B	14804
880-9353-7	BH-7	Total/NA	Solid	8021B	14804
880-9353-8	BH-8	Total/NA	Solid	8021B	14804
880-9353-9	BH-9	Total/NA	Solid	8021B	14804
880-9353-10	BH-10	Total/NA	Solid	8021B	14804
880-9353-11	BH-13	Total/NA	Solid	8021B	14804
880-9353-12	BH-12	Total/NA	Solid	8021B	14804
880-9353-13	BH-11	Total/NA	Solid	8021B	14804
880-9353-14	SW-1	Total/NA	Solid	8021B	14804
880-9353-15	SW-2	Total/NA	Solid	8021B	14804
880-9353-16	SW-3	Total/NA	Solid	8021B	14804
880-9353-17	SW-4	Total/NA	Solid	8021B	14804
880-9353-18	SW-5	Total/NA	Solid	8021B	14804
880-9353-19	SW-6	Total/NA	Solid	8021B	14804
880-9353-20	SW-7	Total/NA	Solid	8021B	14804
MB 880-14759/5-A	Method Blank	Total/NA	Solid	8021B	14759
MB 880-14804/5-A	Method Blank	Total/NA	Solid	8021B	14804
LCS 880-14804/1-A	Lab Control Sample	Total/NA	Solid	8021B	14804
LCSD 880-14804/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	14804
880-9353-1 MS	BH-1	Total/NA	Solid	8021B	14804
880-9353-1 MSD	BH-1	Total/NA	Solid	8021B	14804

**Analysis Batch: 14797**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9353-21	SW-8	Total/NA	Solid	8021B	14781
MB 880-14762/5-A	Method Blank	Total/NA	Solid	8021B	14762
MB 880-14781/5-A	Method Blank	Total/NA	Solid	8021B	14781
LCS 880-14781/1-A	Lab Control Sample	Total/NA	Solid	8021B	14781
LCSD 880-14781/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	14781

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**QC Association Summary**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9353-1  
 SDG: Eddy County, NM

**GC VOA****Prep Batch: 14804**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9353-1	BH-1	Total/NA	Solid	5035	1
880-9353-2	BH-2	Total/NA	Solid	5035	2
880-9353-3	BH-3	Total/NA	Solid	5035	3
880-9353-4	BH-4	Total/NA	Solid	5035	4
880-9353-5	BH-5	Total/NA	Solid	5035	5
880-9353-6	BH-6	Total/NA	Solid	5035	6
880-9353-7	BH-7	Total/NA	Solid	5035	7
880-9353-8	BH-8	Total/NA	Solid	5035	8
880-9353-9	BH-9	Total/NA	Solid	5035	9
880-9353-10	BH-10	Total/NA	Solid	5035	10
880-9353-11	BH-13	Total/NA	Solid	5035	11
880-9353-12	BH-12	Total/NA	Solid	5035	12
880-9353-13	BH-11	Total/NA	Solid	5035	13
880-9353-14	SW-1	Total/NA	Solid	5035	14
880-9353-15	SW-2	Total/NA	Solid	5035	
880-9353-16	SW-3	Total/NA	Solid	5035	
880-9353-17	SW-4	Total/NA	Solid	5035	
880-9353-18	SW-5	Total/NA	Solid	5035	
880-9353-19	SW-6	Total/NA	Solid	5035	
880-9353-20	SW-7	Total/NA	Solid	5035	
MB 880-14804/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-14804/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-14804/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9353-1 MS	BH-1	Total/NA	Solid	5035	
880-9353-1 MSD	BH-1	Total/NA	Solid	5035	

**Analysis Batch: 15276**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9353-1	BH-1	Total/NA	Solid	Total BTEX	1
880-9353-2	BH-2	Total/NA	Solid	Total BTEX	2
880-9353-3	BH-3	Total/NA	Solid	Total BTEX	3
880-9353-4	BH-4	Total/NA	Solid	Total BTEX	4
880-9353-5	BH-5	Total/NA	Solid	Total BTEX	5
880-9353-6	BH-6	Total/NA	Solid	Total BTEX	6
880-9353-7	BH-7	Total/NA	Solid	Total BTEX	7
880-9353-8	BH-8	Total/NA	Solid	Total BTEX	8
880-9353-9	BH-9	Total/NA	Solid	Total BTEX	9
880-9353-10	BH-10	Total/NA	Solid	Total BTEX	10
880-9353-11	BH-13	Total/NA	Solid	Total BTEX	11
880-9353-12	BH-12	Total/NA	Solid	Total BTEX	12
880-9353-13	BH-11	Total/NA	Solid	Total BTEX	13
880-9353-14	SW-1	Total/NA	Solid	Total BTEX	14
880-9353-15	SW-2	Total/NA	Solid	Total BTEX	
880-9353-16	SW-3	Total/NA	Solid	Total BTEX	
880-9353-17	SW-4	Total/NA	Solid	Total BTEX	
880-9353-18	SW-5	Total/NA	Solid	Total BTEX	
880-9353-19	SW-6	Total/NA	Solid	Total BTEX	
880-9353-20	SW-7	Total/NA	Solid	Total BTEX	
880-9353-21	SW-8	Total/NA	Solid	Total BTEX	

**QC Association Summary**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9353-1  
 SDG: Eddy County, NM

**GC Semi VOA****Prep Batch: 14812**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9353-1	BH-1	Total/NA	Solid	8015NM Prep	1
880-9353-2	BH-2	Total/NA	Solid	8015NM Prep	2
880-9353-3	BH-3	Total/NA	Solid	8015NM Prep	3
880-9353-4	BH-4	Total/NA	Solid	8015NM Prep	4
880-9353-5	BH-5	Total/NA	Solid	8015NM Prep	5
880-9353-6	BH-6	Total/NA	Solid	8015NM Prep	6
880-9353-7	BH-7	Total/NA	Solid	8015NM Prep	7
880-9353-8	BH-8	Total/NA	Solid	8015NM Prep	8
880-9353-9	BH-9	Total/NA	Solid	8015NM Prep	9
880-9353-10	BH-10	Total/NA	Solid	8015NM Prep	10
880-9353-11	BH-13	Total/NA	Solid	8015NM Prep	11
880-9353-12	BH-12	Total/NA	Solid	8015NM Prep	12
880-9353-13	BH-11	Total/NA	Solid	8015NM Prep	13
880-9353-14	SW-1	Total/NA	Solid	8015NM Prep	14
880-9353-15	SW-2	Total/NA	Solid	8015NM Prep	
880-9353-16	SW-3	Total/NA	Solid	8015NM Prep	
880-9353-17	SW-4	Total/NA	Solid	8015NM Prep	
880-9353-18	SW-5	Total/NA	Solid	8015NM Prep	
880-9353-19	SW-6	Total/NA	Solid	8015NM Prep	
880-9353-20	SW-7	Total/NA	Solid	8015NM Prep	
MB 880-14812/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-14812/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-14820/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-9353-1 MS	BH-1	Total/NA	Solid	8015NM Prep	
880-9353-1 MSD	BH-1	Total/NA	Solid	8015NM Prep	

**Prep Batch: 14820**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9353-21	SW-8	Total/NA	Solid	8015NM Prep	
MB 880-14820/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-14820/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-14820/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-9353-21 MS	SW-8	Total/NA	Solid	8015NM Prep	
880-9353-21 MSD	SW-8	Total/NA	Solid	8015NM Prep	

**Analysis Batch: 15015**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9353-1	BH-1	Total/NA	Solid	8015B NM	14812
880-9353-2	BH-2	Total/NA	Solid	8015B NM	14812
880-9353-3	BH-3	Total/NA	Solid	8015B NM	14812
880-9353-4	BH-4	Total/NA	Solid	8015B NM	14812
880-9353-5	BH-5	Total/NA	Solid	8015B NM	14812
880-9353-6	BH-6	Total/NA	Solid	8015B NM	14812
880-9353-7	BH-7	Total/NA	Solid	8015B NM	14812
880-9353-8	BH-8	Total/NA	Solid	8015B NM	14812
880-9353-9	BH-9	Total/NA	Solid	8015B NM	14812
880-9353-10	BH-10	Total/NA	Solid	8015B NM	14812
880-9353-11	BH-13	Total/NA	Solid	8015B NM	14812
880-9353-12	BH-12	Total/NA	Solid	8015B NM	14812
880-9353-13	BH-11	Total/NA	Solid	8015B NM	14812
880-9353-14	SW-1	Total/NA	Solid	8015B NM	14812

Eurofins Xenco, Midland

**QC Association Summary**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9353-1  
 SDG: Eddy County, NM

**GC Semi VOA (Continued)****Analysis Batch: 15015 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9353-15	SW-2	Total/NA	Solid	8015B NM	14812
880-9353-16	SW-3	Total/NA	Solid	8015B NM	14812
880-9353-17	SW-4	Total/NA	Solid	8015B NM	14812
880-9353-18	SW-5	Total/NA	Solid	8015B NM	14812
880-9353-19	SW-6	Total/NA	Solid	8015B NM	14812
880-9353-20	SW-7	Total/NA	Solid	8015B NM	14812
880-9353-21	SW-8	Total/NA	Solid	8015B NM	14820
MB 880-14812/1-A	Method Blank	Total/NA	Solid	8015B NM	14812
MB 880-14820/1-A	Method Blank	Total/NA	Solid	8015B NM	14820
LCS 880-14812/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	14812
LCS 880-14820/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	14820
LCSD 880-14812/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	14812
LCSD 880-14820/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	14820
880-9353-1 MS	BH-1	Total/NA	Solid	8015B NM	14812
880-9353-1 MSD	BH-1	Total/NA	Solid	8015B NM	14812
880-9353-21 MS	SW-8	Total/NA	Solid	8015B NM	14820
880-9353-21 MSD	SW-8	Total/NA	Solid	8015B NM	14820

**Analysis Batch: 15595**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9353-1	BH-1	Total/NA	Solid	8015 NM	14
880-9353-2	BH-2	Total/NA	Solid	8015 NM	
880-9353-3	BH-3	Total/NA	Solid	8015 NM	
880-9353-4	BH-4	Total/NA	Solid	8015 NM	
880-9353-5	BH-5	Total/NA	Solid	8015 NM	
880-9353-6	BH-6	Total/NA	Solid	8015 NM	
880-9353-7	BH-7	Total/NA	Solid	8015 NM	
880-9353-8	BH-8	Total/NA	Solid	8015 NM	
880-9353-9	BH-9	Total/NA	Solid	8015 NM	
880-9353-10	BH-10	Total/NA	Solid	8015 NM	
880-9353-11	BH-13	Total/NA	Solid	8015 NM	
880-9353-12	BH-12	Total/NA	Solid	8015 NM	
880-9353-13	BH-11	Total/NA	Solid	8015 NM	
880-9353-14	SW-1	Total/NA	Solid	8015 NM	
880-9353-15	SW-2	Total/NA	Solid	8015 NM	
880-9353-16	SW-3	Total/NA	Solid	8015 NM	
880-9353-17	SW-4	Total/NA	Solid	8015 NM	
880-9353-18	SW-5	Total/NA	Solid	8015 NM	
880-9353-19	SW-6	Total/NA	Solid	8015 NM	
880-9353-20	SW-7	Total/NA	Solid	8015 NM	
880-9353-21	SW-8	Total/NA	Solid	8015 NM	

**HPLC/IC****Leach Batch: 14838**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9353-1	BH-1	Soluble	Solid	DI Leach	
880-9353-2	BH-2	Soluble	Solid	DI Leach	
880-9353-3	BH-3	Soluble	Solid	DI Leach	
880-9353-4	BH-4	Soluble	Solid	DI Leach	
880-9353-5	BH-5	Soluble	Solid	DI Leach	

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**QC Association Summary**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9353-1  
 SDG: Eddy County, NM

**HPLC/IC (Continued)****Leach Batch: 14838 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9353-6	BH-6	Soluble	Solid	DI Leach	
880-9353-7	BH-7	Soluble	Solid	DI Leach	
880-9353-8	BH-8	Soluble	Solid	DI Leach	
880-9353-9	BH-9	Soluble	Solid	DI Leach	
880-9353-10	BH-10	Soluble	Solid	DI Leach	
880-9353-11	BH-13	Soluble	Solid	DI Leach	
880-9353-12	BH-12	Soluble	Solid	DI Leach	
880-9353-13	BH-11	Soluble	Solid	DI Leach	
880-9353-14	SW-1	Soluble	Solid	DI Leach	
880-9353-15	SW-2	Soluble	Solid	DI Leach	
880-9353-16	SW-3	Soluble	Solid	DI Leach	
880-9353-17	SW-4	Soluble	Solid	DI Leach	
MB 880-14838/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-14838/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-14838/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-9353-8 MS	BH-8	Soluble	Solid	DI Leach	
880-9353-8 MSD	BH-8	Soluble	Solid	DI Leach	

**Leach Batch: 14839**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9353-18	SW-5	Soluble	Solid	DI Leach	
880-9353-19	SW-6	Soluble	Solid	DI Leach	
880-9353-20	SW-7	Soluble	Solid	DI Leach	
880-9353-21	SW-8	Soluble	Solid	DI Leach	
MB 880-14839/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-14839/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-14839/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

**Analysis Batch: 15047**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9353-1	BH-1	Soluble	Solid	300.0	14838
880-9353-2	BH-2	Soluble	Solid	300.0	14838
880-9353-3	BH-3	Soluble	Solid	300.0	14838
880-9353-4	BH-4	Soluble	Solid	300.0	14838
880-9353-5	BH-5	Soluble	Solid	300.0	14838
880-9353-6	BH-6	Soluble	Solid	300.0	14838
880-9353-7	BH-7	Soluble	Solid	300.0	14838
880-9353-8	BH-8	Soluble	Solid	300.0	14838
880-9353-9	BH-9	Soluble	Solid	300.0	14838
880-9353-10	BH-10	Soluble	Solid	300.0	14838
880-9353-11	BH-13	Soluble	Solid	300.0	14838
880-9353-12	BH-12	Soluble	Solid	300.0	14838
880-9353-13	BH-11	Soluble	Solid	300.0	14838
880-9353-14	SW-1	Soluble	Solid	300.0	14838
880-9353-15	SW-2	Soluble	Solid	300.0	14838
880-9353-16	SW-3	Soluble	Solid	300.0	14838
880-9353-17	SW-4	Soluble	Solid	300.0	14838
MB 880-14838/1-A	Method Blank	Soluble	Solid	300.0	14838
LCS 880-14838/2-A	Lab Control Sample	Soluble	Solid	300.0	14838
LCSD 880-14838/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	14838
880-9353-8 MS	BH-8	Soluble	Solid	300.0	14838

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**QC Association Summary**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9353-1  
 SDG: Eddy County, NM

**HPLC/IC (Continued)****Analysis Batch: 15047 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9353-8 MSD	BH-8	Soluble	Solid	300.0	14838

**Analysis Batch: 15070**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9353-18	SW-5	Soluble	Solid	300.0	14839
880-9353-19	SW-6	Soluble	Solid	300.0	14839
880-9353-20	SW-7	Soluble	Solid	300.0	14839
880-9353-21	SW-8	Soluble	Solid	300.0	14839
MB 880-14839/1-A	Method Blank	Soluble	Solid	300.0	14839
LCS 880-14839/2-A	Lab Control Sample	Soluble	Solid	300.0	14839
LCSD 880-14839/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	14839

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**Lab Chronicle**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9353-1  
SDG: Eddy County, NM

**Client Sample ID: BH-1**

Date Collected: 12/13/21 11:30  
Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-1**

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			5.01 g	5 mL	14804	12/15/21 08:29	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14796	12/15/21 22:47	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15595	12/27/21 14:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	14812	12/15/21 10:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15015	12/17/21 11:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	14838	12/15/21 11:38	CA	XEN MID
Soluble	Analysis	300.0		1			15047	12/18/21 13:47	CH	XEN MID

**Client Sample ID: BH-2**

Date Collected: 12/13/21 11:35  
Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-2**

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	14804	12/15/21 08:29	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14796	12/15/21 23:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15595	12/27/21 14:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	14812	12/15/21 10:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15015	12/17/21 12:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	14838	12/15/21 11:38	CA	XEN MID
Soluble	Analysis	300.0		1			15047	12/18/21 13:53	CH	XEN MID

**Client Sample ID: BH-3**

Date Collected: 12/13/21 11:40  
Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-3**

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	14804	12/15/21 08:29	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14796	12/15/21 23:27	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15595	12/27/21 14:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	14812	12/15/21 10:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15015	12/17/21 12:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	14838	12/15/21 11:38	CA	XEN MID
Soluble	Analysis	300.0		1			15047	12/18/21 14:13	CH	XEN MID

**Client Sample ID: BH-4**

Date Collected: 12/13/21 11:45  
Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-4**

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	14804	12/15/21 08:29	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14796	12/15/21 23:48	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID

Eurofins Xenco, Midland

**Lab Chronicle**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9353-1  
SDG: Eddy County, NM

**Client Sample ID: BH-4**

Date Collected: 12/13/21 11:45  
Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-4**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			15595	12/27/21 14:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	14812	12/15/21 10:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15015	12/17/21 12:57	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	14838	12/15/21 11:38	CA	XEN MID
Soluble	Analysis	300.0		1			15047	12/18/21 14:20	CH	XEN MID

**Client Sample ID: BH-5**

Date Collected: 12/13/21 11:50  
Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-5**

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			4.99 g	5 mL	14804	12/15/21 08:29	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14796	12/16/21 00:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15595	12/27/21 14:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	14812	12/15/21 10:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15015	12/17/21 13:19	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	14838	12/15/21 11:38	CA	XEN MID
Soluble	Analysis	300.0		1			15047	12/18/21 14:27	CH	XEN MID

**Client Sample ID: BH-6**

Date Collected: 12/13/21 11:55  
Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-6**

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			4.98 g	5 mL	14804	12/15/21 08:29	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14796	12/16/21 00:29	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15595	12/27/21 14:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	14812	12/15/21 10:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15015	12/17/21 13:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	14838	12/15/21 11:38	CA	XEN MID
Soluble	Analysis	300.0		1			15047	12/18/21 14:33	CH	XEN MID

**Client Sample ID: BH-7**

Date Collected: 12/13/21 12:00  
Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-7**

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			5.00 g	5 mL	14804	12/15/21 08:29	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14796	12/16/21 00:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15595	12/27/21 14:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	14812	12/15/21 10:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15015	12/17/21 14:03	AJ	XEN MID

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**Lab Chronicle**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9353-1  
SDG: Eddy County, NM

**Client Sample ID: BH-7**

Date Collected: 12/13/21 12:00  
Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-7**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	14838	12/15/21 11:38	CA	XEN MID
Soluble	Analysis	300.0		1			15047	12/18/21 14:40	CH	XEN MID

**Client Sample ID: BH-8**

Date Collected: 12/13/21 12:10  
Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-8**  
**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			5.01 g	5 mL	14804	12/15/21 08:29	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14796	12/16/21 01:09	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15595	12/27/21 14:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	14812	12/15/21 10:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15015	12/17/21 14:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	14838	12/15/21 11:38	CA	XEN MID
Soluble	Analysis	300.0		1			15047	12/18/21 14:47	CH	XEN MID

**Client Sample ID: BH-9**

Date Collected: 12/13/21 12:15  
Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-9**  
**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	14804	12/15/21 08:29	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14796	12/16/21 01:30	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15595	12/27/21 14:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	14812	12/15/21 10:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15015	12/17/21 14:47	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	14838	12/15/21 11:38	CA	XEN MID
Soluble	Analysis	300.0		1			15047	12/18/21 15:07	CH	XEN MID

**Client Sample ID: BH-10**

Date Collected: 12/13/21 12:30  
Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-10**  
**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	14804	12/15/21 08:29	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14796	12/16/21 01:50	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15595	12/27/21 14:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	14812	12/15/21 10:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15015	12/17/21 15:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	14838	12/15/21 11:38	CA	XEN MID
Soluble	Analysis	300.0		1			15047	12/18/21 15:14	CH	XEN MID

Eurofins Xenco, Midland

**Lab Chronicle**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9353-1  
 SDG: Eddy County, NM

**Client Sample ID: BH-13**  
 Date Collected: 12/13/21 12:30  
 Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-11**  
 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			4.97 g	5 mL	14804	12/15/21 08:29	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14796	12/16/21 03:40	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15595	12/27/21 14:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	14812	12/15/21 10:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15015	12/17/21 15:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	14838	12/15/21 11:38	CA	XEN MID
Soluble	Analysis	300.0		1			15047	12/18/21 15:34	CH	XEN MID

**Client Sample ID: BH-12**  
 Date Collected: 12/13/21 12:25  
 Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-12**  
 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	14804	12/15/21 08:29	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14796	12/16/21 04:00	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15595	12/27/21 14:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	14812	12/15/21 10:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15015	12/17/21 16:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	14838	12/15/21 11:38	CA	XEN MID
Soluble	Analysis	300.0		1			15047	12/18/21 15:40	CH	XEN MID

**Client Sample ID: BH-11**  
 Date Collected: 12/13/21 12:20  
 Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-13**  
 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			4.98 g	5 mL	14804	12/15/21 08:29	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14796	12/16/21 04:21	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15595	12/27/21 14:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	14812	12/15/21 10:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15015	12/17/21 16:35	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	14838	12/15/21 11:38	CA	XEN MID
Soluble	Analysis	300.0		1			15047	12/18/21 15:47	CH	XEN MID

**Client Sample ID: SW-1**  
 Date Collected: 12/13/21 12:45  
 Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-14**  
 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			4.97 g	5 mL	14804	12/15/21 08:29	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14796	12/16/21 04:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID

Eurofins Xenco, Midland

**Lab Chronicle**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9353-1  
SDG: Eddy County, NM

**Client Sample ID: SW-1**

Date Collected: 12/13/21 12:45  
Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-14**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			15595	12/27/21 14:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	14812	12/15/21 10:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15015	12/17/21 16:57	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	14838	12/15/21 11:38	CA	XEN MID
Soluble	Analysis	300.0		1			15047	12/18/21 15:53	CH	XEN MID

**Client Sample ID: SW-2**

Date Collected: 12/13/21 12:50  
Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-15**

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	14804	12/15/21 08:29	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14796	12/16/21 05:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15595	12/27/21 14:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	14812	12/15/21 10:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15015	12/17/21 17:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	14838	12/15/21 11:38	CA	XEN MID
Soluble	Analysis	300.0		1			15047	12/18/21 16:00	CH	XEN MID

**Client Sample ID: SW-3**

Date Collected: 12/13/21 12:55  
Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-16**

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			5.01 g	5 mL	14804	12/15/21 08:29	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14796	12/16/21 05:22	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15595	12/27/21 14:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	14812	12/15/21 10:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15015	12/17/21 17:39	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	14838	12/15/21 11:38	CA	XEN MID
Soluble	Analysis	300.0		1			15047	12/18/21 16:07	CH	XEN MID

**Client Sample ID: SW-4**

Date Collected: 12/13/21 13:00  
Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-17**

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			5.01 g	5 mL	14804	12/15/21 08:29	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14796	12/16/21 05:43	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15595	12/27/21 14:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	14812	12/15/21 10:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15015	12/17/21 17:59	AJ	XEN MID

Eurofins Xenco, Midland

**Lab Chronicle**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9353-1  
SDG: Eddy County, NM

**Client Sample ID: SW-4**

Date Collected: 12/13/21 13:00  
Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-17**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	14838	12/15/21 11:38	CA	XEN MID
Soluble	Analysis	300.0		1			15047	12/18/21 16:14	CH	XEN MID

**Client Sample ID: SW-5**

Date Collected: 12/13/21 13:05  
Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-18**

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			5.00 g	5 mL	14804	12/15/21 08:29	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14796	12/16/21 06:03	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15595	12/27/21 14:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	14812	12/15/21 10:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15015	12/17/21 18:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	14839	12/15/21 11:40	CA	XEN MID
Soluble	Analysis	300.0		1			15070	12/17/21 21:40	SC	XEN MID

**Client Sample ID: SW-6**

Date Collected: 12/13/21 13:10  
Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-19**

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	14804	12/15/21 08:29	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14796	12/16/21 06:23	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15595	12/27/21 14:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	14812	12/15/21 10:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15015	12/17/21 18:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	14839	12/15/21 11:40	CA	XEN MID
Soluble	Analysis	300.0		1			15070	12/17/21 22:13	SC	XEN MID

**Client Sample ID: SW-7**

Date Collected: 12/13/21 13:15  
Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-20**

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			4.95 g	5 mL	14804	12/15/21 08:29	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14796	12/16/21 06:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15595	12/27/21 14:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	14812	12/15/21 10:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15015	12/17/21 19:01	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	14839	12/15/21 11:40	CA	XEN MID
Soluble	Analysis	300.0		1			15070	12/17/21 22:24	SC	XEN MID

Eurofins Xenco, Midland

**Lab Chronicle**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9353-1  
 SDG: Eddy County, NM

**Client Sample ID: SW-8**

Date Collected: 12/13/21 13:20

Date Received: 12/14/21 15:44

**Lab Sample ID: 880-9353-21**

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			5.05 g	5 mL	14781	12/15/21 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14797	12/16/21 03:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			15595	12/27/21 14:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	14820	12/15/21 10:41	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15015	12/17/21 20:45	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	14839	12/15/21 11:40	CA	XEN MID
Soluble	Analysis	300.0		1			15070	12/17/21 22:35	SC	XEN MID

**Laboratory References:**

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

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Eurofins Xenco, Midland

## Accreditation/Certification Summary

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9353-1  
SDG: Eddy County, NM

### **Laboratory: Eurofins Xenco, 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  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14

Eurofins Xenco, Midland

## Method Summary

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9353-1  
SDG: Eddy County, NM

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 Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Midland

**Sample Summary**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9353-1  
 SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
880-9353-1	BH-1	Solid	12/13/21 11:30	12/14/21 15:44	1
880-9353-2	BH-2	Solid	12/13/21 11:35	12/14/21 15:44	2
880-9353-3	BH-3	Solid	12/13/21 11:40	12/14/21 15:44	3
880-9353-4	BH-4	Solid	12/13/21 11:45	12/14/21 15:44	4
880-9353-5	BH-5	Solid	12/13/21 11:50	12/14/21 15:44	5
880-9353-6	BH-6	Solid	12/13/21 11:55	12/14/21 15:44	6
880-9353-7	BH-7	Solid	12/13/21 12:00	12/14/21 15:44	7
880-9353-8	BH-8	Solid	12/13/21 12:10	12/14/21 15:44	8
880-9353-9	BH-9	Solid	12/13/21 12:15	12/14/21 15:44	9
880-9353-10	BH-10	Solid	12/13/21 12:30	12/14/21 15:44	10
880-9353-11	BH-13	Solid	12/13/21 12:30	12/14/21 15:44	11
880-9353-12	BH-12	Solid	12/13/21 12:25	12/14/21 15:44	12
880-9353-13	BH-11	Solid	12/13/21 12:20	12/14/21 15:44	13
880-9353-14	SW-1	Solid	12/13/21 12:45	12/14/21 15:44	14
880-9353-15	SW-2	Solid	12/13/21 12:50	12/14/21 15:44	
880-9353-16	SW-3	Solid	12/13/21 12:55	12/14/21 15:44	
880-9353-17	SW-4	Solid	12/13/21 13:00	12/14/21 15:44	
880-9353-18	SW-5	Solid	12/13/21 13:05	12/14/21 15:44	
880-9353-19	SW-6	Solid	12/13/21 13:10	12/14/21 15:44	
880-9353-20	SW-7	Solid	12/13/21 13:15	12/14/21 15:44	
880-9353-21	SW-8	Solid	12/13/21 13:20	12/14/21 15:44	

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

  
eurofins

## 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) 794-1286  
 Hobbs, NM (575) 392-7550 Carlsbad, NM (575) 988-3199

## Chain of Custody

Work

880-9353 Chain of Custody



Project Manager:	<b>Becky.Haskell@GHQ.COM</b>	Bill to (if different)	<b>Direct to Plains</b>
Company Name:	<b>C-H2O</b>	Company Name:	
Address:	<b>2135 S. Loop 280 W.</b>	Address:	
City/State ZIP:	<b>Midland, TX 79703</b>	City/State ZIP:	" <b>Becky</b> " , <b>ALGiroues@PALLP.COM</b>
Phone:	<b>432-686-0082</b>	Email:	

Program:	<input type="checkbox"/> UST/PST	<input type="checkbox"/> PRP	<input type="checkbox"/> Brownfields	<input type="checkbox"/> RRC	<input type="checkbox"/> Superfund
State of Project:					
Reporting Level:	<input type="checkbox"/> II	<input type="checkbox"/> III	<input type="checkbox"/> PST/UST	<input type="checkbox"/> TRRP	<input type="checkbox"/> Level IV
Deliverables	<input type="checkbox"/> EDD	<input type="checkbox"/> ADApT	<input type="checkbox"/>	<input type="checkbox"/> Other	
Preservative Codes					

None NO

DI Water: H<sub>2</sub>O

Cool Cool

MeOH Me

HCL HC

HNO<sub>3</sub> HNH<sub>2</sub>SO<sub>4</sub> H<sub>2</sub>

NaOH Na

H<sub>3</sub>PO<sub>4</sub>, HPNaHSO<sub>4</sub> NABISNa<sub>2</sub>S<sub>2</sub>O<sub>3</sub> NaSO<sub>3</sub>

Zn Acetate+NaOH Zn

NaOH+Ascorbic Acid SAPC

ANALYSIS REQUEST							
SAMPLE RECEIPT				Parameters			
Project Number:	<b>12565619</b>	Temp Blank:	<input checked="" type="checkbox"/> Routine	Due Date:	<b>4-3-2021</b>	Pres. Code:	
Project Location:	<b>Eddy County, NM</b>	Samples Received Intact:	<input checked="" type="checkbox"/> Yes	Thermometer ID:	<b>JEP</b>	Wet/Ice:	<input checked="" type="checkbox"/> Yes
Sampler's Name:	<b>Heath Boyd</b>	COOLER CUSTODY SEALS:	<input checked="" type="checkbox"/> No	Correction Factor:	<b>.10</b>	Temperature Reading:	<b>78</b>
PO #		Sample Custody Seals:	<input checked="" type="checkbox"/> N/A	Corrected Temperature:	<b>79</b>		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Sample Comments
<b>BH-1</b>	<b>S</b>	<b>12/13/21</b>	<b>1130</b>	<b>Long</b>	<b>1</b>	<b>X X X</b>	<b>202</b>
<b>BH-2</b>							
<b>BH-3</b>							
<b>BH-4</b>							
<b>BH-5</b>							
<b>BH-6</b>							
<b>BH-7</b>							
<b>BH-8</b>							
<b>BH-9</b>							
<b>BH-10</b>							

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 K Se Ag SiO<sub>2</sub> 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 / 2451 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
<b>Heath Boyd</b>		<b>12/14/2021 1400</b>	<b>Leticia P</b>	<b>12-14-21 15:44</b>	
5		4			6

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



Environment Testing

Xenco

## Chain of Custody

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

Work Order No: 9353www.xenco.com    Page 2 of 3

Project Manager:	<u>Becky.Haskett@GHD.COM</u>	Bill to: (if different)	<u>Direct To Plains</u>
Company Name:	<u>GHD</u>	Company Name:	
Address:	<u>2135 S. Loop 250 W.</u>	Address:	
City/State Zip:	<u>Midland, TX 79703</u>	City/State ZIP:	
Phone:	<u>432-686-0080</u>	Email:	<u>"Becky", ALGROVES@PALLP.COM</u>

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

ANALYSIS REQUEST								Preservative Codes			
Project Name:	<u>Snapping Pumps</u>		Turn Around	<u>48</u>	Pres. Code						
Project Number:	<u>12565619</u>		Routine	<input checked="" type="checkbox"/> Fresh							
Project/Location:	<u>Eddy County, NM</u>		Due Date:	<u>1-3-21</u>							
Sampler's Name:	<u>Hector Boyd</u>		TAT Starts the day received by the lab if received by 4:30pm								
PO #:											
SAMPLE RECEIPT	Temp Blank:	<input checked="" type="radio"/> Yes <input type="radio"/> No	Wet/ice:	<input checked="" type="radio"/> Yes <input type="radio"/> No	Parameters						
Samples Received Intact:	<input checked="" type="radio"/> Yes <input type="radio"/> No		Thermometer ID:	<u>T20</u>							
Cooler Custody Seals:	<input checked="" type="radio"/> Yes <input type="radio"/> No		Correction Factor:	<u>.10</u>							
Sample Custody Seals:	<input checked="" type="radio"/> Yes <input type="radio"/> No		Temperature Reading:	<u>01:08</u>							
Total Containers:			Corrected Temperature:	<u>01:09</u>							
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab Comp	# of Cont	PHT	PSTEX	8015 M	Chloride 300	Preservative Codes
<u>BH-13</u>	<u>S</u>	<u>12/13/21</u>	<u>12:30</u>	<u>Comp</u>	<u>1</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	None NO DI Water: H <sub>2</sub> O
<u>BH-12</u>	<u>S</u>	<u>12/13/21</u>	<u>12:25</u>	<u>Comp</u>	<u>1</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	Cool Cool MeOH Me
<u>BH-11</u>	<u>S</u>	<u>12/13/21</u>	<u>12:20</u>	<u>Comp</u>	<u>1</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	HCL HC HNO <sub>3</sub> HN
<u>SW-1</u>	<u>S</u>	<u>12/14/21</u>	<u>12:45</u>	<u>Comp</u>	<u>1</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	H <sub>2</sub> SO <sub>4</sub> H <sub>2</sub> NaOH Na
<u>SW-2</u>	<u>S</u>	<u>12/15/21</u>	<u>12:50</u>	<u>Comp</u>	<u>1</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	H <sub>3</sub> PO <sub>4</sub> , HP NaHSO <sub>4</sub> , NABIS
<u>SW-3</u>	<u>S</u>	<u>12/15/21</u>	<u>12:55</u>	<u>Comp</u>	<u>1</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> NaSO <sub>3</sub> Zn Acetate+NaOH Zn
<u>SW-4</u>	<u>S</u>	<u>12/16/21</u>	<u>13:00</u>	<u>Comp</u>	<u>1</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	NaOH+Ascorbic Acid SAPC
<u>SW-5</u>	<u>S</u>	<u>12/16/21</u>	<u>13:05</u>	<u>Comp</u>	<u>1</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	Sample Comments
<u>SW-6</u>	<u>S</u>	<u>12/16/21</u>	<u>13:10</u>	<u>Comp</u>	<u>1</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
<u>SW-7</u>	<u>S</u>	<u>12/16/21</u>	<u>13:15</u>	<u>Comp</u>	<u>1</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	

Total 200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas 11	AI	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO <sub>2</sub>	Na	Sr	Tl	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	Tl	U	Hg	1631 / 2451 / 7470 / 7471											

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$35.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
<u>2/25</u>	<u>1/14/21 @ 1400</u>	<u>Dave H</u>	<u>J. Lottier</u>	<u>1/14/21 18:44</u>	
1					
3					
5					



Chain of Custody

Environment Testing  
Xenco

Houston, TX (281) 240-4240; 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

Work Order No

454

## Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 880-9353-1  
SDG Number: Eddy County, NM**Login Number:** 9353**List Source:** Eurofins Xenco, Midland**List Number:** 1**Creator:** Rodriguez, Leticia

Question	Answer	Comment	
The cooler's custody seal, if present, is intact.	N/A		1
Sample custody seals, if present, are intact.	N/A		2
The cooler or samples do not appear to have been compromised or tampered with.	True		3
Samples were received on ice.	True		4
Cooler Temperature is acceptable.	True	brought the next day after it was sampled	5
Cooler Temperature is recorded.	True		6
COC is present.	True		7
COC is filled out in ink and legible.	True		8
COC is filled out with all pertinent information.	True		9
Is the Field Sampler's name present on COC?	True		10
There are no discrepancies between the containers received and the COC.	True		11
Samples are received within Holding Time (excluding tests with immediate HTs)	True		12
Sample containers have legible labels.	True		13
Containers are not broken or leaking.	True		14
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		



Environment Testing  
America



## ANALYTICAL REPORT

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

Laboratory Job ID: 880-9906-1

Laboratory Sample Delivery Group: Eddy County, NM  
Client Project/Site: Snapping Pumps

For:  
GHD Services Inc.  
2135 South Loop 250 West  
Midland, Texas 79703

Attn: Becky Haskell

Authorized for release by:  
1/11/2022 3:20:39 PM

Debbie Simmons, Project Manager  
(832)986-6768  
[debbie.simmons@eurofinset.com](mailto:debbie.simmons@eurofinset.com)

### LINKS

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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.

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Laboratory Job ID: 880-9906-1  
 SDG: Eddy County, NM

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## Definitions/Glossary

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9906-1  
SDG: Eddy County, NM

### Qualifiers

#### GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

#### HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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.
¤	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: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9906-1  
SDG: Eddy County, NM

**Job ID: 880-9906-1****Laboratory: Eurofins Midland****Narrative****Job Narrative  
880-9906-1****Receipt**

The samples were received on 1/6/2022 12:00 AM. 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 time was 3.4°C

**GC VOA**

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

**GC Semi VOA**

Method 8015MOD\_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-16164 and analytical batch 880-16119 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28)

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

**HPLC/IC**

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-16227 and analytical batch 880-16331 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-16230 and analytical batch 880-16332 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9906-1  
SDG: Eddy County, NM

**Client Sample ID: SW-9**

Date Collected: 01/04/22 13:00  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-1**

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		01/06/22 12:58	01/06/22 17:18	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		01/06/22 12:58	01/06/22 17:18	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		01/06/22 12:58	01/06/22 17:18	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		01/06/22 12:58	01/06/22 17:18	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		01/06/22 12:58	01/06/22 17:18	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		01/06/22 12:58	01/06/22 17:18	1
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)		115		70 - 130			01/06/22 12:58	01/06/22 17:18	1
1,4-Difluorobenzene (Surr)		114		70 - 130			01/06/22 12:58	01/06/22 17:18	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			01/07/22 08:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	79.9		49.9	15.0	mg/Kg			01/07/22 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	19.0	J *1	49.9	15.0	mg/Kg		01/06/22 13:57	01/06/22 16:58	1
Diesel Range Organics (Over C10-C28)	60.9	*1	49.9	15.0	mg/Kg		01/06/22 13:57	01/06/22 16:58	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		01/06/22 13:57	01/06/22 16:58	1
<b>Surrogate</b>									<b>Dil Fac</b>
1-Chlorooctane	74		70 - 130				01/06/22 13:57	01/06/22 16:58	1
o-Terphenyl	79		70 - 130				01/06/22 13:57	01/06/22 16:58	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.7	F1	5.05	0.867	mg/Kg			01/07/22 23:54	1

**Client Sample ID: SW-10**

Date Collected: 01/04/22 13:05  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-2**

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		01/06/22 12:58	01/06/22 17:39	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		01/06/22 12:58	01/06/22 17:39	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		01/06/22 12:58	01/06/22 17:39	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		01/06/22 12:58	01/06/22 17:39	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		01/06/22 12:58	01/06/22 17:39	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		01/06/22 12:58	01/06/22 17:39	1
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)		122		70 - 130			01/06/22 12:58	01/06/22 17:39	1
1,4-Difluorobenzene (Surr)		103		70 - 130			01/06/22 12:58	01/06/22 17:39	1

Eurofins Midland

**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9906-1  
SDG: Eddy County, NM

**Client Sample ID: SW-10**  
Date Collected: 01/04/22 13:05  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-2**  
Matrix: Solid

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			01/07/22 08:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			01/07/22 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U *1	50.0	15.0	mg/Kg		01/06/22 13:57	01/06/22 18:00	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	50.0	15.0	mg/Kg		01/06/22 13:57	01/06/22 18:00	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/06/22 13:57	01/06/22 18:00	1

**Surrogate**

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130	01/06/22 13:57	01/06/22 18:00	1
<i>o</i> -Terphenyl	80		70 - 130	01/06/22 13:57	01/06/22 18:00	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.9		4.98	0.855	mg/Kg			01/08/22 00:19	1

**Client Sample ID: SW-11****Lab Sample ID: 880-9906-3**

Date Collected: 01/04/22 13:10  
Date Received: 01/06/22 00:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		01/06/22 12:58	01/06/22 17:59	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		01/06/22 12:58	01/06/22 17:59	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		01/06/22 12:58	01/06/22 17:59	1
<i>m</i> -Xylene & <i>p</i> -Xylene	0.00123	J	0.00400	0.00101	mg/Kg		01/06/22 12:58	01/06/22 17:59	1
<i>o</i> -Xylene	0.00152	J	0.00200	0.000344	mg/Kg		01/06/22 12:58	01/06/22 17:59	1
Xylenes, Total	0.00275	J	0.00400	0.00101	mg/Kg		01/06/22 12:58	01/06/22 17:59	1

**Surrogate**

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	01/06/22 12:58	01/06/22 17:59	1
1,4-Difluorobenzene (Surr)	106		70 - 130	01/06/22 12:58	01/06/22 17:59	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00275	J	0.00400	0.00101	mg/Kg			01/07/22 08:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.9	15.0	mg/Kg			01/07/22 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U *1	49.9	15.0	mg/Kg		01/06/22 13:57	01/06/22 18:21	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	49.9	15.0	mg/Kg		01/06/22 13:57	01/06/22 18:21	1

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**Client Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9906-1  
 SDG: Eddy County, NM

**Client Sample ID: SW-11**  
 Date Collected: 01/04/22 13:10  
 Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-3**  
 Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		01/06/22 13:57	01/06/22 18:21	1
<b>Surrogate</b>									
1-Chlorooctane	85		70 - 130				01/06/22 13:57	01/06/22 18:21	1
o-Terphenyl	85		70 - 130				01/06/22 13:57	01/06/22 18:21	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.85	J	4.95	0.850	mg/Kg			01/08/22 00:27	1

**Client Sample ID: SW-12**

**Lab Sample ID: 880-9906-4**  
 Matrix: Solid

Date Collected: 01/04/22 13:15  
 Date Received: 01/06/22 00:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg		01/06/22 12:58	01/06/22 18:20	1
Toluene	0.00121	J	0.00198	0.000451	mg/Kg		01/06/22 12:58	01/06/22 18:20	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		01/06/22 12:58	01/06/22 18:20	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		01/06/22 12:58	01/06/22 18:20	1
o-Xylene	0.00167	J	0.00198	0.000341	mg/Kg		01/06/22 12:58	01/06/22 18:20	1
Xylenes, Total	0.00167	J	0.00396	0.00100	mg/Kg		01/06/22 12:58	01/06/22 18:20	1
<b>Surrogate</b>									
4-Bromofluorobenzene (Surr)	118		70 - 130				01/06/22 12:58	01/06/22 18:20	1
1,4-Difluorobenzene (Surr)	102		70 - 130				01/06/22 12:58	01/06/22 18:20	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00288	J	0.00396	0.00100	mg/Kg			01/07/22 08:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.9	15.0	mg/Kg			01/07/22 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U *1	49.9	15.0	mg/Kg		01/06/22 13:57	01/06/22 18:42	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	49.9	15.0	mg/Kg		01/06/22 13:57	01/06/22 18:42	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		01/06/22 13:57	01/06/22 18:42	1
<b>Surrogate</b>									
1-Chlorooctane	77		70 - 130				01/06/22 13:57	01/06/22 18:42	1
o-Terphenyl	82		70 - 130				01/06/22 13:57	01/06/22 18:42	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.94	J	5.04	0.865	mg/Kg			01/08/22 00:36	1

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**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9906-1  
SDG: Eddy County, NM

**Client Sample ID: SW-13**  
Date Collected: 01/04/22 13:20  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-5**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U	0.00202	0.000388	mg/Kg		01/06/22 12:58	01/06/22 18:40	1
Toluene	<0.000460	U	0.00202	0.000460	mg/Kg		01/06/22 12:58	01/06/22 18:40	1
Ethylbenzene	<0.000570	U	0.00202	0.000570	mg/Kg		01/06/22 12:58	01/06/22 18:40	1
m-Xylene & p-Xylene	<0.00102	U	0.00403	0.00102	mg/Kg		01/06/22 12:58	01/06/22 18:40	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		01/06/22 12:58	01/06/22 18:40	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg		01/06/22 12:58	01/06/22 18:40	1
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)		119		70 - 130			01/06/22 12:58	01/06/22 18:40	1
1,4-Difluorobenzene (Surr)		104		70 - 130			01/06/22 12:58	01/06/22 18:40	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00403	0.00102	mg/Kg			01/07/22 08:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			01/07/22 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U *1	50.0	15.0	mg/Kg		01/06/22 13:57	01/06/22 19:04	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	50.0	15.0	mg/Kg		01/06/22 13:57	01/06/22 19:04	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/06/22 13:57	01/06/22 19:04	1
<b>Surrogate</b>									<b>Dil Fac</b>
1-Chlorooctane		77		70 - 130			01/06/22 13:57	01/06/22 19:04	1
o-Terphenyl		84		70 - 130			01/06/22 13:57	01/06/22 19:04	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.91	J	4.99	0.857	mg/Kg			01/08/22 00:44	1

**Client Sample ID: SW-14****Lab Sample ID: 880-9906-6**

Date Collected: 01/04/22 13:25  
Date Received: 01/06/22 00:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00128	J	0.00200	0.000384	mg/Kg		01/06/22 12:58	01/06/22 19:01	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		01/06/22 12:58	01/06/22 19:01	1
<b>Surrogate</b>									<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)		118		70 - 130			01/06/22 12:58	01/06/22 19:01	1
1,4-Difluorobenzene (Surr)		104		70 - 130			01/06/22 12:58	01/06/22 19:01	1

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**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9906-1  
SDG: Eddy County, NM

**Client Sample ID: SW-14**  
Date Collected: 01/04/22 13:25  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-6**  
Matrix: Solid

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00329	J	0.00399	0.00101	mg/Kg			01/07/22 08:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			01/07/22 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U *1	50.0	15.0	mg/Kg		01/06/22 13:57	01/06/22 19:25	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	50.0	15.0	mg/Kg		01/06/22 13:57	01/06/22 19:25	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/06/22 13:57	01/06/22 19:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				01/06/22 13:57	01/06/22 19:25	1
<i>o</i> -Terphenyl	93		70 - 130				01/06/22 13:57	01/06/22 19:25	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.46	J	4.95	0.850	mg/Kg			01/08/22 01:09	1

**Client Sample ID: SW-15**

Date Collected: 01/04/22 13:30  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-7**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00112	J	0.00201	0.000387	mg/Kg		01/06/22 12:58	01/06/22 19:21	1
Toluene	0.000924	J	0.00201	0.000458	mg/Kg		01/06/22 12:58	01/06/22 19:21	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg		01/06/22 12:58	01/06/22 19:21	1
m-Xylene & p-Xylene	<0.00101	U	0.00402	0.00101	mg/Kg		01/06/22 12:58	01/06/22 19:21	1
<i>o</i> -Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		01/06/22 12:58	01/06/22 19:21	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		01/06/22 12:58	01/06/22 19:21	1

**Surrogate**

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				01/06/22 12:58	01/06/22 19:21	1
1,4-Difluorobenzene (Surr)	97		70 - 130				01/06/22 12:58	01/06/22 19:21	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00204	J	0.00402	0.00101	mg/Kg			01/07/22 08:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			01/07/22 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U *1	50.0	15.0	mg/Kg		01/06/22 13:57	01/06/22 19:47	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	50.0	15.0	mg/Kg		01/06/22 13:57	01/06/22 19:47	1

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**Client Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9906-1  
 SDG: Eddy County, NM

**Client Sample ID: SW-15**  
 Date Collected: 01/04/22 13:30  
 Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-7**  
 Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/06/22 13:57	01/06/22 19:47	1
<b>Surrogate</b>									
1-Chlorooctane	78		70 - 130				01/06/22 13:57	01/06/22 19:47	1
o-Terphenyl	83		70 - 130				01/06/22 13:57	01/06/22 19:47	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.9		5.00	0.858	mg/Kg			01/08/22 01:17	1

**Client Sample ID: SW-16**

**Lab Sample ID: 880-9906-8**  
 Matrix: Solid

Date Collected: 01/04/22 13:40  
 Date Received: 01/06/22 00:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		01/06/22 12:58	01/06/22 19:42	1
Toluene	0.00116	J	0.00200	0.000457	mg/Kg		01/06/22 12:58	01/06/22 19:42	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		01/06/22 12:58	01/06/22 19:42	1
m-Xylene & p-Xylene	0.00111	J	0.00401	0.00101	mg/Kg		01/06/22 12:58	01/06/22 19:42	1
o-Xylene	0.00172	J	0.00200	0.000345	mg/Kg		01/06/22 12:58	01/06/22 19:42	1
Xylenes, Total	0.00283	J	0.00401	0.00101	mg/Kg		01/06/22 12:58	01/06/22 19:42	1
<b>Surrogate</b>									
4-Bromofluorobenzene (Surr)	115		70 - 130				01/06/22 12:58	01/06/22 19:42	1
1,4-Difluorobenzene (Surr)	103		70 - 130				01/06/22 12:58	01/06/22 19:42	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00399	J	0.00401	0.00101	mg/Kg			01/07/22 08:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.9	15.0	mg/Kg			01/07/22 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U *1	49.9	15.0	mg/Kg		01/06/22 13:57	01/06/22 20:08	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	49.9	15.0	mg/Kg		01/06/22 13:57	01/06/22 20:08	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		01/06/22 13:57	01/06/22 20:08	1
<b>Surrogate</b>									
1-Chlorooctane	76		70 - 130				01/06/22 13:57	01/06/22 20:08	1
o-Terphenyl	80		70 - 130				01/06/22 13:57	01/06/22 20:08	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.5		4.97	0.853	mg/Kg			01/08/22 01:26	1

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**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9906-1  
SDG: Eddy County, NM

**Client Sample ID: SW-17**  
Date Collected: 01/04/22 13:45  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-9**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		01/06/22 12:58	01/06/22 20:02	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg		01/06/22 12:58	01/06/22 20:02	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg		01/06/22 12:58	01/06/22 20:02	1
m-Xylene & p-Xylene	<0.00101	U	0.00402	0.00101	mg/Kg		01/06/22 12:58	01/06/22 20:02	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		01/06/22 12:58	01/06/22 20:02	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		01/06/22 12:58	01/06/22 20:02	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	128		70 - 130				01/06/22 12:58	01/06/22 20:02	1
1,4-Difluorobenzene (Surr)	115		70 - 130				01/06/22 12:58	01/06/22 20:02	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00402	0.00101	mg/Kg			01/07/22 08:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			01/07/22 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U *1	50.0	15.0	mg/Kg		01/06/22 13:57	01/06/22 20:30	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	50.0	15.0	mg/Kg		01/06/22 13:57	01/06/22 20:30	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/06/22 13:57	01/06/22 20:30	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	74		70 - 130				01/06/22 13:57	01/06/22 20:30	1
o-Terphenyl	77		70 - 130				01/06/22 13:57	01/06/22 20:30	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.5		4.95	0.850	mg/Kg			01/08/22 17:09	1

**Client Sample ID: SW-18****Lab Sample ID: 880-9906-10**

Date Collected: 01/04/22 13:50  
Date Received: 01/06/22 00:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		01/06/22 12:58	01/06/22 20:23	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		01/06/22 12:58	01/06/22 20:23	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		01/06/22 12:58	01/06/22 20:23	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		01/06/22 12:58	01/06/22 20:23	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		01/06/22 12:58	01/06/22 20:23	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		01/06/22 12:58	01/06/22 20:23	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	118		70 - 130				01/06/22 12:58	01/06/22 20:23	1
1,4-Difluorobenzene (Surr)	103		70 - 130				01/06/22 12:58	01/06/22 20:23	1

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## Client Sample Results

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9906-1  
SDG: Eddy County, NM

**Client Sample ID: SW-18**  
Date Collected: 01/04/22 13:50  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-10**  
Matrix: Solid

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00400	0.00101	mg/Kg			01/07/22 08:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	77.2		49.9	15.0	mg/Kg			01/07/22 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U *1	49.9	15.0	mg/Kg		01/06/22 13:57	01/06/22 20:51	1
<b>Diesel Range Organics (Over C10-C28)</b>	<b>77.2 *1</b>		49.9	15.0	mg/Kg		01/06/22 13:57	01/06/22 20:51	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		01/06/22 13:57	01/06/22 20:51	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	79		70 - 130				01/06/22 13:57	01/06/22 20:51	1
<i>o</i> -Terphenyl	83		70 - 130				01/06/22 13:57	01/06/22 20:51	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.7		4.99	0.857	mg/Kg			01/08/22 17:17	1

**Client Sample ID: SW-19**

Date Collected: 01/04/22 13:55  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-11**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		01/06/22 12:58	01/06/22 22:13	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		01/06/22 12:58	01/06/22 22:13	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		01/06/22 12:58	01/06/22 22:13	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		01/06/22 12:58	01/06/22 22:13	1
<i>o</i> -Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		01/06/22 12:58	01/06/22 22:13	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		01/06/22 12:58	01/06/22 22:13	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	117		70 - 130				01/06/22 12:58	01/06/22 22:13	1
1,4-Difluorobenzene (Surr)	103		70 - 130				01/06/22 12:58	01/06/22 22:13	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00399	0.00101	mg/Kg			01/07/22 08:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	59.3		50.0	15.0	mg/Kg			01/07/22 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U *1	50.0	15.0	mg/Kg		01/06/22 13:57	01/06/22 21:34	1
<b>Diesel Range Organics (Over C10-C28)</b>	<b>59.3 *1</b>		50.0	15.0	mg/Kg		01/06/22 13:57	01/06/22 21:34	1

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**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9906-1  
SDG: Eddy County, NM

**Client Sample ID: SW-19**  
Date Collected: 01/04/22 13:55  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-11**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/06/22 13:57	01/06/22 21:34	1
<b>Surrogate</b>									
1-Chlorooctane	72		70 - 130				01/06/22 13:57	01/06/22 21:34	1
o-Terphenyl	76		70 - 130				01/06/22 13:57	01/06/22 21:34	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.3		5.00	0.858	mg/Kg			01/08/22 17:25	1

**Client Sample ID: SW-20**

**Lab Sample ID: 880-9906-12**  
Matrix: Solid

Date Collected: 01/04/22 14:00  
Date Received: 01/06/22 00:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00202	0.000389	mg/Kg		01/06/22 12:58	01/06/22 22:34	1
Toluene	<0.000461	U	0.00202	0.000461	mg/Kg		01/06/22 12:58	01/06/22 22:34	1
Ethylbenzene	<0.000571	U	0.00202	0.000571	mg/Kg		01/06/22 12:58	01/06/22 22:34	1
m-Xylene & p-Xylene	<0.00102	U	0.00404	0.00102	mg/Kg		01/06/22 12:58	01/06/22 22:34	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		01/06/22 12:58	01/06/22 22:34	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg		01/06/22 12:58	01/06/22 22:34	1
<b>Surrogate</b>									
4-Bromofluorobenzene (Surr)	108		70 - 130				01/06/22 12:58	01/06/22 22:34	1
1,4-Difluorobenzene (Surr)	99		70 - 130				01/06/22 12:58	01/06/22 22:34	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00404	0.00102	mg/Kg			01/07/22 08:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			01/07/22 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U *1	50.0	15.0	mg/Kg		01/06/22 13:57	01/06/22 21:56	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	50.0	15.0	mg/Kg		01/06/22 13:57	01/06/22 21:56	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/06/22 13:57	01/06/22 21:56	1
<b>Surrogate</b>									
1-Chlorooctane	77		70 - 130				01/06/22 13:57	01/06/22 21:56	1
o-Terphenyl	80		70 - 130				01/06/22 13:57	01/06/22 21:56	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.46		4.98	0.855	mg/Kg			01/08/22 17:50	1

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**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9906-1  
SDG: Eddy County, NM

**Client Sample ID: SW-21**  
Date Collected: 01/04/22 14:05  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-13**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00103	J	0.00199	0.000383	mg/Kg		01/06/22 12:58	01/06/22 22:54	1
Toluene	0.00178	J	0.00199	0.000453	mg/Kg		01/06/22 12:58	01/06/22 22:54	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		01/06/22 12:58	01/06/22 22:54	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		01/06/22 12:58	01/06/22 22:54	1
<b>o-Xylene</b>	<b>0.000977</b>	<b>J</b>	0.00199	0.000342	mg/Kg		01/06/22 12:58	01/06/22 22:54	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		01/06/22 12:58	01/06/22 22:54	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	107		70 - 130				01/06/22 12:58	01/06/22 22:54	1
1,4-Difluorobenzene (Surr)	101		70 - 130				01/06/22 12:58	01/06/22 22:54	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00379	J	0.00398	0.00100	mg/Kg			01/07/22 08:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			01/07/22 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U *1	50.0	15.0	mg/Kg		01/06/22 13:57	01/06/22 22:17	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	50.0	15.0	mg/Kg		01/06/22 13:57	01/06/22 22:17	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/06/22 13:57	01/06/22 22:17	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	72		70 - 130				01/06/22 13:57	01/06/22 22:17	1
<i>o-Terphenyl</i>	76		70 - 130				01/06/22 13:57	01/06/22 22:17	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.5		4.95	0.850	mg/Kg			01/08/22 17:59	1

**Client Sample ID: SW-22****Lab Sample ID: 880-9906-14**

Date Collected: 01/04/22 14:10  
Date Received: 01/06/22 00:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		01/06/22 12:58	01/06/22 23:15	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		01/06/22 12:58	01/06/22 23:15	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		01/06/22 12:58	01/06/22 23:15	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		01/06/22 12:58	01/06/22 23:15	1
<b>o-Xylene</b>	<b>0.00104</b>	<b>J</b>	0.00199	0.000342	mg/Kg		01/06/22 12:58	01/06/22 23:15	1
Xylenes, Total	<b>0.00104</b>	<b>J</b>	0.00398	0.00100	mg/Kg		01/06/22 12:58	01/06/22 23:15	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	113		70 - 130				01/06/22 12:58	01/06/22 23:15	1
1,4-Difluorobenzene (Surr)	104		70 - 130				01/06/22 12:58	01/06/22 23:15	1

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**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9906-1  
SDG: Eddy County, NM

**Client Sample ID: SW-22**  
Date Collected: 01/04/22 14:10  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-14**  
Matrix: Solid

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00104	J	0.00398	0.00100	mg/Kg			01/07/22 08:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	66.1		49.9	15.0	mg/Kg			01/07/22 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U *1	49.9	15.0	mg/Kg		01/06/22 13:57	01/06/22 22:39	1
Diesel Range Organics (Over C10-C28)	66.1 *1		49.9	15.0	mg/Kg		01/06/22 13:57	01/06/22 22:39	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		01/06/22 13:57	01/06/22 22:39	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	71		70 - 130				01/06/22 13:57	01/06/22 22:39	1
<i>o</i> -Terphenyl	75		70 - 130				01/06/22 13:57	01/06/22 22:39	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.93		4.95	0.850	mg/Kg			01/08/22 18:24	1

**Client Sample ID: SW-23****Lab Sample ID: 880-9906-15**

Date Collected: 01/04/22 14:15  
Date Received: 01/06/22 00:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000387	U	0.00201	0.000387	mg/Kg		01/06/22 12:58	01/06/22 23:35	1
Toluene	0.00105	J	0.00201	0.000459	mg/Kg		01/06/22 12:58	01/06/22 23:35	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		01/06/22 12:58	01/06/22 23:35	1
m-Xylene & p-Xylene	0.00103	J	0.00402	0.00102	mg/Kg		01/06/22 12:58	01/06/22 23:35	1
<i>o</i> -Xylene	0.000593	J	0.00201	0.000346	mg/Kg		01/06/22 12:58	01/06/22 23:35	1
Xylenes, Total	0.00162	J	0.00402	0.00102	mg/Kg		01/06/22 12:58	01/06/22 23:35	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	113		70 - 130				01/06/22 12:58	01/06/22 23:35	1
1,4-Difluorobenzene (Surr)	104		70 - 130				01/06/22 12:58	01/06/22 23:35	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00267	J	0.00402	0.00102	mg/Kg			01/07/22 08:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.9	15.0	mg/Kg			01/07/22 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U *1	49.9	15.0	mg/Kg		01/06/22 13:57	01/06/22 23:00	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	49.9	15.0	mg/Kg		01/06/22 13:57	01/06/22 23:00	1

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**Client Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9906-1  
 SDG: Eddy County, NM

**Client Sample ID: SW-23**  
 Date Collected: 01/04/22 14:15  
 Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-15**  
 Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		01/06/22 13:57	01/06/22 23:00	1
<b>Surrogate</b>									
1-Chlorooctane	73		70 - 130				01/06/22 13:57	01/06/22 23:00	1
o-Terphenyl	76		70 - 130				01/06/22 13:57	01/06/22 23:00	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.7		5.04	0.865	mg/Kg			01/08/22 18:32	1

**Client Sample ID: SW-24**

**Lab Sample ID: 880-9906-16**  
 Matrix: Solid

Date Collected: 01/04/22 14:20  
 Date Received: 01/06/22 00:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00136	J	0.00200	0.000386	mg/Kg		01/06/22 12:58	01/06/22 23:55	1
Toluene	0.00103	J	0.00200	0.000457	mg/Kg		01/06/22 12:58	01/06/22 23:55	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		01/06/22 12:58	01/06/22 23:55	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		01/06/22 12:58	01/06/22 23:55	1
o-Xylene	0.000516	J	0.00200	0.000345	mg/Kg		01/06/22 12:58	01/06/22 23:55	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		01/06/22 12:58	01/06/22 23:55	1
<b>Surrogate</b>									
4-Bromofluorobenzene (Surr)	117		70 - 130				01/06/22 12:58	01/06/22 23:55	1
1,4-Difluorobenzene (Surr)	106		70 - 130				01/06/22 12:58	01/06/22 23:55	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00291	J	0.00401	0.00101	mg/Kg			01/07/22 08:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			01/07/22 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U *1	50.0	15.0	mg/Kg		01/06/22 13:57	01/06/22 23:22	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	50.0	15.0	mg/Kg		01/06/22 13:57	01/06/22 23:22	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/06/22 13:57	01/06/22 23:22	1
<b>Surrogate</b>									
1-Chlorooctane	88		70 - 130				01/06/22 13:57	01/06/22 23:22	1
o-Terphenyl	92		70 - 130				01/06/22 13:57	01/06/22 23:22	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.4		5.00	0.858	mg/Kg			01/08/22 18:41	1

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## Client Sample Results

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9906-1  
SDG: Eddy County, NM

**Client Sample ID: SW-25**  
Date Collected: 01/04/22 14:25  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-17**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg		01/06/22 12:58	01/07/22 00:16	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		01/06/22 12:58	01/07/22 00:16	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		01/06/22 12:58	01/07/22 00:16	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		01/06/22 12:58	01/07/22 00:16	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		01/06/22 12:58	01/07/22 00:16	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		01/06/22 12:58	01/07/22 00:16	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	111		70 - 130				01/06/22 12:58	01/07/22 00:16	1
1,4-Difluorobenzene (Surr)	97		70 - 130				01/06/22 12:58	01/07/22 00:16	1

### Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00396	0.00100	mg/Kg			01/07/22 08:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.9	15.0	mg/Kg			01/07/22 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U *1	49.9	15.0	mg/Kg		01/06/22 13:57	01/06/22 23:43	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	49.9	15.0	mg/Kg		01/06/22 13:57	01/06/22 23:43	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		01/06/22 13:57	01/06/22 23:43	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	75		70 - 130				01/06/22 13:57	01/06/22 23:43	1
o-Terphenyl	78		70 - 130				01/06/22 13:57	01/06/22 23:43	1

### Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.81		5.00	0.858	mg/Kg			01/08/22 18:49	1

**Client Sample ID: SW-26**

**Lab Sample ID: 880-9906-18**

Date Collected: 01/04/22 14:30  
Date Received: 01/06/22 00:00

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>0.00117 J</b>		0.00198	0.000382	mg/Kg		01/06/22 12:58	01/07/22 00:36	1
Toluene	<0.000452	U	0.00198	0.000452	mg/Kg		01/06/22 12:58	01/07/22 00:36	1
Ethylbenzene	<0.000561	U	0.00198	0.000561	mg/Kg		01/06/22 12:58	01/07/22 00:36	1
<b>m-Xylene &amp; p-Xylene</b>	<b>0.00178 J</b>		0.00397	0.00100	mg/Kg		01/06/22 12:58	01/07/22 00:36	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		01/06/22 12:58	01/07/22 00:36	1
<b>Xylenes, Total</b>	<b>0.00178 J</b>		0.00397	0.00100	mg/Kg		01/06/22 12:58	01/07/22 00:36	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	120		70 - 130				01/06/22 12:58	01/07/22 00:36	1
1,4-Difluorobenzene (Surr)	118		70 - 130				01/06/22 12:58	01/07/22 00:36	1

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**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9906-1  
SDG: Eddy County, NM

**Client Sample ID: SW-26**  
Date Collected: 01/04/22 14:30  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-18**  
Matrix: Solid

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00295	J	0.00397	0.00100	mg/Kg			01/07/22 08:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.9	15.0	mg/Kg			01/07/22 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U *1	49.9	15.0	mg/Kg		01/06/22 13:57	01/07/22 00:04	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	49.9	15.0	mg/Kg		01/06/22 13:57	01/07/22 00:04	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		01/06/22 13:57	01/07/22 00:04	1

**Surrogate**

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130	01/06/22 13:57	01/07/22 00:04	1
<i>o</i> -Terphenyl	78		70 - 130	01/06/22 13:57	01/07/22 00:04	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.1		4.96	0.851	mg/Kg			01/08/22 18:57	1

**Client Sample ID: Ramp-1**

Date Collected: 01/04/22 14:35  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-19**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		01/06/22 12:58	01/07/22 00:57	1
Toluene	0.00119	J	0.00199	0.000454	mg/Kg		01/06/22 12:58	01/07/22 00:57	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		01/06/22 12:58	01/07/22 00:57	1
<i>m</i> -Xylene & <i>p</i> -Xylene	0.00103	J	0.00398	0.00101	mg/Kg		01/06/22 12:58	01/07/22 00:57	1
<i>o</i> -Xylene	0.000428	J	0.00199	0.000343	mg/Kg		01/06/22 12:58	01/07/22 00:57	1
Xylenes, Total	0.00146	J	0.00398	0.00101	mg/Kg		01/06/22 12:58	01/07/22 00:57	1

**Surrogate**

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	01/06/22 12:58	01/07/22 00:57	1
1,4-Difluorobenzene (Surr)	96		70 - 130	01/06/22 12:58	01/07/22 00:57	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00265	J	0.00398	0.00101	mg/Kg			01/07/22 08:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	180		50.0	15.0	mg/Kg			01/07/22 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U *1	50.0	15.0	mg/Kg		01/06/22 13:57	01/07/22 00:26	1
<i>Diesel Range Organics (Over C10-C28)</i>	180	*1	50.0	15.0	mg/Kg		01/06/22 13:57	01/07/22 00:26	1

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**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9906-1  
SDG: Eddy County, NM

**Client Sample ID: Ramp-1**

Date Collected: 01/04/22 14:35  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-19**

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/06/22 13:57	01/07/22 00:26	1
<b>Surrogate</b>									
1-Chlorooctane	73		70 - 130				01/06/22 13:57	01/07/22 00:26	1
o-Terphenyl	77		70 - 130				01/06/22 13:57	01/07/22 00:26	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.65	J	5.02	0.862	mg/Kg			01/08/22 19:06	1

**Client Sample ID: Ramp-2**

Date Collected: 01/04/22 14:40  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-20**

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000513	J	0.00201	0.000387	mg/Kg		01/06/22 12:58	01/07/22 01:17	1
Toluene	0.000989	J	0.00201	0.000459	mg/Kg		01/06/22 12:58	01/07/22 01:17	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		01/06/22 12:58	01/07/22 01:17	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		01/06/22 12:58	01/07/22 01:17	1
o-Xylene	0.00140	J	0.00201	0.000346	mg/Kg		01/06/22 12:58	01/07/22 01:17	1
Xylenes, Total	0.00140	J	0.00402	0.00102	mg/Kg		01/06/22 12:58	01/07/22 01:17	1
<b>Surrogate</b>									
4-Bromofluorobenzene (Surr)	114		70 - 130				01/06/22 12:58	01/07/22 01:17	1
1,4-Difluorobenzene (Surr)	102		70 - 130				01/06/22 12:58	01/07/22 01:17	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00290	J	0.00402	0.00102	mg/Kg			01/07/22 08:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	170		49.8	14.9	mg/Kg			01/07/22 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.9	U *1	49.8	14.9	mg/Kg		01/06/22 13:57	01/07/22 00:47	1
<b>Diesel Range Organics (Over C10-C28)</b>	170	*1	49.8	14.9	mg/Kg		01/06/22 13:57	01/07/22 00:47	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		01/06/22 13:57	01/07/22 00:47	1
<b>Surrogate</b>									
1-Chlorooctane	87		70 - 130				01/06/22 13:57	01/07/22 00:47	1
o-Terphenyl	87		70 - 130				01/06/22 13:57	01/07/22 00:47	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.55	J	4.98	0.855	mg/Kg			01/08/22 19:14	1

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**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9906-1  
SDG: Eddy County, NM

**Client Sample ID: Ramp-3**  
Date Collected: 01/04/22 14:45  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-21**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00202	0.000389	mg/Kg		01/06/22 16:00	01/06/22 21:46	1
Toluene	0.00131	J	0.00202	0.000461	mg/Kg		01/06/22 16:00	01/06/22 21:46	1
Ethylbenzene	<0.000571	U	0.00202	0.000571	mg/Kg		01/06/22 16:00	01/06/22 21:46	1
m-Xylene & p-Xylene	<0.00102	U	0.00404	0.00102	mg/Kg		01/06/22 16:00	01/06/22 21:46	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		01/06/22 16:00	01/06/22 21:46	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg		01/06/22 16:00	01/06/22 21:46	1
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	218	S1+		70 - 130			01/06/22 16:00	01/06/22 21:46	1
1,4-Difluorobenzene (Surr)	95			70 - 130			01/06/22 16:00	01/06/22 21:46	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00131	J	0.00404	0.00102	mg/Kg			01/07/22 08:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	166		50.0	15.0	mg/Kg			01/07/22 12:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		01/06/22 13:00	01/06/22 22:56	1
Diesel Range Organics (Over C10-C28)	166		50.0	15.0	mg/Kg		01/06/22 13:00	01/06/22 22:56	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/06/22 13:00	01/06/22 22:56	1
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	110		70 - 130				01/06/22 13:00	01/06/22 22:56	1
o-Terphenyl	112		70 - 130				01/06/22 13:00	01/06/22 22:56	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.1	F1	5.04	0.865	mg/Kg			01/10/22 11:08	1

**Client Sample ID: Ramp-4****Lab Sample ID: 880-9906-22**

Date Collected: 01/04/22 14:50  
Date Received: 01/06/22 00:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		01/06/22 16:00	01/06/22 22:13	1
Toluene	0.000616	J	0.00199	0.000453	mg/Kg		01/06/22 16:00	01/06/22 22:13	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		01/06/22 16:00	01/06/22 22:13	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		01/06/22 16:00	01/06/22 22:13	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		01/06/22 16:00	01/06/22 22:13	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		01/06/22 16:00	01/06/22 22:13	1
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	210	S1+	70 - 130				01/06/22 16:00	01/06/22 22:13	1
1,4-Difluorobenzene (Surr)	104		70 - 130				01/06/22 16:00	01/06/22 22:13	1

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**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9906-1  
SDG: Eddy County, NM

**Client Sample ID: Ramp-4**

Date Collected: 01/04/22 14:50  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-22**

Matrix: Solid

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			01/07/22 08:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	129		49.9	15.0	mg/Kg			01/07/22 12:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		01/06/22 13:00	01/06/22 23:17	1
<b>Diesel Range Organics (Over C10-C28)</b>	<b>129</b>		49.9	15.0	mg/Kg		01/06/22 13:00	01/06/22 23:17	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		01/06/22 13:00	01/06/22 23:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				01/06/22 13:00	01/06/22 23:17	1
<i>o</i> -Terphenyl	103		70 - 130				01/06/22 13:00	01/06/22 23:17	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.85		4.98	0.855	mg/Kg			01/10/22 11:34	1

**Client Sample ID: Ramp-5**

Date Collected: 01/04/22 14:55  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-23**

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		01/06/22 16:00	01/06/22 22:40	1
<b>Toluene</b>	<b>0.000599 J</b>		0.00199	0.000454	mg/Kg		01/06/22 16:00	01/06/22 22:40	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		01/06/22 16:00	01/06/22 22:40	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		01/06/22 16:00	01/06/22 22:40	1
<i>o</i> -Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		01/06/22 16:00	01/06/22 22:40	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		01/06/22 16:00	01/06/22 22:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	206	S1+	70 - 130				01/06/22 16:00	01/06/22 22:40	1
1,4-Difluorobenzene (Surr)	93		70 - 130				01/06/22 16:00	01/06/22 22:40	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg			01/07/22 08:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	137		50.0	15.0	mg/Kg			01/07/22 12:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		01/06/22 13:00	01/06/22 23:38	1
<b>Diesel Range Organics (Over C10-C28)</b>	<b>137</b>		50.0	15.0	mg/Kg		01/06/22 13:00	01/06/22 23:38	1

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**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9906-1  
SDG: Eddy County, NM

**Client Sample ID: Ramp-5**  
Date Collected: 01/04/22 14:55  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-23**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/06/22 13:00	01/06/22 23:38	1
<b>Surrogate</b>									
1-Chlorooctane	105		70 - 130				01/06/22 13:00	01/06/22 23:38	1
o-Terphenyl	108		70 - 130				01/06/22 13:00	01/06/22 23:38	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.4		4.95	0.850	mg/Kg			01/10/22 11:42	1

**Client Sample ID: Ramp-6**

**Lab Sample ID: 880-9906-24**  
Matrix: Solid

Date Collected: 01/04/22 15:00  
Date Received: 01/06/22 00:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U	0.00202	0.000388	mg/Kg		01/06/22 16:00	01/06/22 23:07	1
Toluene	<0.000460	U	0.00202	0.000460	mg/Kg		01/06/22 16:00	01/06/22 23:07	1
Ethylbenzene	<0.000570	U	0.00202	0.000570	mg/Kg		01/06/22 16:00	01/06/22 23:07	1
m-Xylene & p-Xylene	<0.00102	U	0.00403	0.00102	mg/Kg		01/06/22 16:00	01/06/22 23:07	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		01/06/22 16:00	01/06/22 23:07	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg		01/06/22 16:00	01/06/22 23:07	1
<b>Surrogate</b>									
4-Bromofluorobenzene (Surr)	195	S1+	70 - 130				01/06/22 16:00	01/06/22 23:07	1
1,4-Difluorobenzene (Surr)	88		70 - 130				01/06/22 16:00	01/06/22 23:07	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00403	0.00102	mg/Kg			01/07/22 08:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	76.7		50.0	15.0	mg/Kg			01/07/22 12:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		01/06/22 13:00	01/06/22 23:59	1
<b>Diesel Range Organics (Over C10-C28)</b>	<b>76.7</b>		50.0	15.0	mg/Kg		01/06/22 13:00	01/06/22 23:59	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/06/22 13:00	01/06/22 23:59	1
<b>Surrogate</b>									
1-Chlorooctane	102		70 - 130				01/06/22 13:00	01/06/22 23:59	1
o-Terphenyl	108		70 - 130				01/06/22 13:00	01/06/22 23:59	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.60		5.05	0.867	mg/Kg			01/10/22 11:51	1

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**Surrogate Summary**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9906-1  
 SDG: Eddy County, NM

**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)
880-9906-1	SW-9	115	114
880-9906-1 MS	SW-9	113	104
880-9906-1 MSD	SW-9	114	104
880-9906-2	SW-10	122	103
880-9906-3	SW-11	113	106
880-9906-4	SW-12	118	102
880-9906-5	SW-13	119	104
880-9906-6	SW-14	118	104
880-9906-7	SW-15	109	97
880-9906-8	SW-16	115	103
880-9906-9	SW-17	128	115
880-9906-10	SW-18	118	103
880-9906-11	SW-19	117	103
880-9906-12	SW-20	108	99
880-9906-13	SW-21	107	101
880-9906-14	SW-22	113	104
880-9906-15	SW-23	113	104
880-9906-16	SW-24	117	106
880-9906-17	SW-25	111	97
880-9906-18	SW-26	120	118
880-9906-19	Ramp-1	106	96
880-9906-20	Ramp-2	114	102
880-9906-21	Ramp-3	218 S1+	95
880-9906-22	Ramp-4	210 S1+	104
880-9906-23	Ramp-5	206 S1+	93
880-9906-24	Ramp-6	195 S1+	88
LCS 880-16093/1-A	Lab Control Sample	206 S1+	74
LCS 880-16149/1-A	Lab Control Sample	96	87
LCSD 880-16093/2-A	Lab Control Sample Dup	171 S1+	115
LCSD 880-16149/2-A	Lab Control Sample Dup	105	97
MB 880-16093/5-A	Method Blank	104	96
MB 880-16149/5-A	Method Blank	123	102

**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)
880-9906-1	SW-9	74	79
880-9906-1 MS	SW-9	75	73
880-9906-1 MSD	SW-9	76	74
880-9906-2	SW-10	76	80
880-9906-3	SW-11	85	85
880-9906-4	SW-12	77	82
880-9906-5	SW-13	77	84

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**Surrogate Summary**

Client: GHD Services Inc.

Job ID: 880-9906-1

Project/Site: Snapping Pumps

SDG: Eddy County, NM

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		1CO1 (70-130)	OTPH1 (70-130)	
880-9906-6	SW-14	89	93	
880-9906-7	SW-15	78	83	
880-9906-8	SW-16	76	80	
880-9906-9	SW-17	74	77	
880-9906-10	SW-18	79	83	
880-9906-11	SW-19	72	76	
880-9906-12	SW-20	77	80	
880-9906-13	SW-21	72	76	
880-9906-14	SW-22	71	75	
880-9906-15	SW-23	73	76	
880-9906-16	SW-24	88	92	
880-9906-17	SW-25	75	78	
880-9906-18	SW-26	74	78	
880-9906-19	Ramp-1	73	77	
880-9906-20	Ramp-2	87	87	
880-9906-21	Ramp-3	110	112	
880-9906-22	Ramp-4	102	103	
880-9906-23	Ramp-5	105	108	
880-9906-24	Ramp-6	102	108	
LCS 880-16164/2-A	Lab Control Sample	103	105	
LCSD 880-16164/3-A	Lab Control Sample Dup	135 S1+	135 S1+	
MB 880-16164/1-A	Method Blank	82	92	

**Surrogate Legend**

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

**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)		
		1CO2 (70-130)	OTPH2 (70-130)	
LCS 880-16124/2-A	Lab Control Sample	100	103	
LCSD 880-16124/3-A	Lab Control Sample Dup	103	104	
MB 880-16124/1-A	Method Blank	110	114	

**Surrogate Legend**

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9906-1  
SDG: Eddy County, NM

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

**Lab Sample ID: MB 880-16093/5-A**

**Matrix: Solid**

**Analysis Batch: 16114**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 16093**

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Benzene	<0.000385	U			0.00200	0.000385	mg/Kg		01/06/22 07:45	01/06/22 12:37	1
Toluene	<0.000456	U			0.00200	0.000456	mg/Kg		01/06/22 07:45	01/06/22 12:37	1
Ethylbenzene	<0.000565	U			0.00200	0.000565	mg/Kg		01/06/22 07:45	01/06/22 12:37	1
m-Xylene & p-Xylene	<0.00101	U			0.00400	0.00101	mg/Kg		01/06/22 07:45	01/06/22 12:37	1
o-Xylene	<0.000344	U			0.00200	0.000344	mg/Kg		01/06/22 07:45	01/06/22 12:37	1
Xylenes, Total	<0.00101	U			0.00400	0.00101	mg/Kg		01/06/22 07:45	01/06/22 12:37	1
Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
4-Bromofluorobenzene (Surr)	104		70 - 130			01/06/22 07:45	01/06/22 12:37				1
1,4-Difluorobenzene (Surr)	96		70 - 130			01/06/22 07:45	01/06/22 12:37				1

**Lab Sample ID: LCS 880-16093/1-A**

**Matrix: Solid**

**Analysis Batch: 16114**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 16093**

Analyte	Spikes	LCS	LCS	Result	Qualifier	Unit	D	%Rec	%Rec.	
	Added	Result	Qualifier						Limits	Limits
Benzene	0.100	0.09961		mg/Kg			100	70 - 130		
Toluene	0.100	0.1069		mg/Kg			107	70 - 130		
Ethylbenzene	0.100	0.1041		mg/Kg			104	70 - 130		
m-Xylene & p-Xylene	0.200	0.2119		mg/Kg			106	70 - 130		
o-Xylene	0.100	0.09340		mg/Kg			93	70 - 130		
Surrogate	LCS	LCS	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	Prepared	Analyzed
	Result	Qualifier								
4-Bromofluorobenzene (Surr)	206	S1+	70 - 130							
1,4-Difluorobenzene (Surr)	74		70 - 130							

**Lab Sample ID: LCSD 880-16093/2-A**

**Matrix: Solid**

**Analysis Batch: 16114**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 16093**

Analyte	Spikes	LCSD	LCSD	Result	Qualifier	Unit	D	%Rec	%Rec.	
	Added	Result	Qualifier						Limits	RPD
Benzene	0.100	0.1111		mg/Kg			111	70 - 130	11	35
Toluene	0.100	0.1028		mg/Kg			103	70 - 130	4	35
Ethylbenzene	0.100	0.1003		mg/Kg			100	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2033		mg/Kg			102	70 - 130	4	35
o-Xylene	0.100	0.09628		mg/Kg			96	70 - 130	3	35
Surrogate	LCSD	LCSD	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	Prepared	Analyzed
	Result	Qualifier								
4-Bromofluorobenzene (Surr)	171	S1+	70 - 130							
1,4-Difluorobenzene (Surr)	115		70 - 130							

**Lab Sample ID: MB 880-16149/5-A**

**Matrix: Solid**

**Analysis Batch: 16151**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 16149**

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Benzene	<0.000385	U			0.00200	0.000385	mg/Kg		01/06/22 12:58	01/06/22 16:49	1
Toluene	<0.000456	U			0.00200	0.000456	mg/Kg		01/06/22 12:58	01/06/22 16:49	1

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**QC Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9906-1  
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-16149/5-A

Matrix: Solid

Analysis Batch: 16151

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16149

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		01/06/22 12:58	01/06/22 16:49	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		01/06/22 12:58	01/06/22 16:49	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		01/06/22 12:58	01/06/22 16:49	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		01/06/22 12:58	01/06/22 16:49	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	123		70 - 130	01/06/22 12:58	01/06/22 16:49	1
1,4-Difluorobenzene (Surr)	102		70 - 130	01/06/22 12:58	01/06/22 16:49	1

Lab Sample ID: LCS 880-16149/1-A

Matrix: Solid

Analysis Batch: 16151

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16149

Analyte	Spike		LCS	LCS	Unit	D	%Rec	Limits	RPD
	Added	Result							
Benzene	0.100	0.08607	mg/Kg		86	70 - 130			
Toluene	0.100	0.08965	mg/Kg		90	70 - 130			
Ethylbenzene	0.100	0.09815	mg/Kg		98	70 - 130			
m-Xylene & p-Xylene	0.200	0.1882	mg/Kg		94	70 - 130			
o-Xylene	0.100	0.08899	mg/Kg		89	70 - 130			

Surrogate	LCS		LCS	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier					
4-Bromofluorobenzene (Surr)	96		70 - 130				
1,4-Difluorobenzene (Surr)	87		70 - 130				

Lab Sample ID: LCSD 880-16149/2-A

Matrix: Solid

Analysis Batch: 16151

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16149

Analyte	Spike		LCSD	LCSD	Unit	D	%Rec	Limits	RPD	Limit
	Added	Result								
Benzene	0.100	0.09272	mg/Kg		93	70 - 130			7	35
Toluene	0.100	0.1062	mg/Kg		106	70 - 130			17	35
Ethylbenzene	0.100	0.1065	mg/Kg		106	70 - 130			8	35
m-Xylene & p-Xylene	0.200	0.2085	mg/Kg		104	70 - 130			10	35
o-Xylene	0.100	0.09736	mg/Kg		97	70 - 130			9	35

Surrogate	LCSD		LCS	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier					
4-Bromofluorobenzene (Surr)	105		70 - 130				
1,4-Difluorobenzene (Surr)	97		70 - 130				

Lab Sample ID: 880-9906-1 MS

Matrix: Solid

Analysis Batch: 16151

Client Sample ID: SW-9

Prep Type: Total/NA

Prep Batch: 16149

Analyte	Sample		Spike	MS		Unit	D	%Rec	Limits	RPD
	Result	Qualifier		Added	Result					
Benzene	<0.000383	U	0.0998	0.08669		mg/Kg		87	70 - 130	
Toluene	<0.000453	U	0.0998	0.08765		mg/Kg		88	70 - 130	
Ethylbenzene	<0.000562	U	0.0998	0.09299		mg/Kg		93	70 - 130	
m-Xylene & p-Xylene	<0.00100	U	0.200	0.1775		mg/Kg		89	70 - 130	

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**QC Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9906-1  
SDG: Eddy County, NM

**Method: 8021B - Volatile Organic Compounds (GC) (Continued)****Lab Sample ID: 880-9906-1 MS****Matrix: Solid****Analysis Batch: 16151**

**Client Sample ID: SW-9**  
**Prep Type: Total/NA**  
**Prep Batch: 16149**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec.	Limits		
	Result	Qualifier	Added	Result	Qualifier						
o-Xylene	<0.000342	U	0.0998	0.08719		mg/Kg		87	70 - 130		
<b>Surrogate</b>											
4-Bromofluorobenzene (Surr)	113			70 - 130							
1,4-Difluorobenzene (Surr)	104			70 - 130							

**Lab Sample ID: 880-9906-1 MSD****Matrix: Solid****Analysis Batch: 16151**

**Client Sample ID: SW-9**  
**Prep Type: Total/NA**  
**Prep Batch: 16149**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Benzene	<0.000383	U	0.100	0.09017		mg/Kg		90	70 - 130	4	35
Toluene	<0.000453	U	0.100	0.09997		mg/Kg		100	70 - 130	13	35
Ethylbenzene	<0.000562	U	0.100	0.09771		mg/Kg		97	70 - 130	5	35
m-Xylene & p-Xylene	<0.00100	U	0.201	0.1936		mg/Kg		96	70 - 130	9	35
o-Xylene	<0.000342	U	0.100	0.09390		mg/Kg		94	70 - 130	7	35
<b>Surrogate</b>											
4-Bromofluorobenzene (Surr)	114		70 - 130								
1,4-Difluorobenzene (Surr)	104		70 - 130								

**Method: 8015B NM - Diesel Range Organics (DRO) (GC)****Lab Sample ID: MB 880-16124/1-A****Matrix: Solid****Analysis Batch: 16116**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 16124**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		01/06/22 11:08	01/06/22 19:45	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		01/06/22 11:08	01/06/22 19:45	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/06/22 11:08	01/06/22 19:45	1
<b>Surrogate</b>									
1-Chlorooctane	110		70 - 130				01/06/22 11:08	01/06/22 19:45	1
o-Terphenyl	114		70 - 130				01/06/22 11:08	01/06/22 19:45	1

**Lab Sample ID: LCS 880-16124/2-A****Matrix: Solid****Analysis Batch: 16116**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 16124**

Analyte	Spike	LCS	LCS	Unit	D	%Rec.	Limits
	Added	Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	1000	920.2		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	977.5		mg/Kg		98	70 - 130

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**QC Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9906-1  
SDG: Eddy County, NM

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

Lab Sample ID: LCS 880-16124/2-A

Matrix: Solid

Analysis Batch: 16116

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16124

Surrogate	LCS	LCS	
	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
<i>o</i> -Terphenyl	103		70 - 130

Lab Sample ID: LCSD 880-16124/3-A

Matrix: Solid

Analysis Batch: 16116

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16124

Analyte	Spike	LCSD	LCSD		%Rec.	RPD
	Added	Result	Qualifier	Unit	D	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	927.2		mg/Kg	93	70 - 130
Diesel Range Organics (Over C10-C28)	1000	973.5		mg/Kg	97	70 - 130

Surrogate	LCS	LCS	
	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
<i>o</i> -Terphenyl	104		70 - 130

Lab Sample ID: MB 880-16164/1-A

Matrix: Solid

Analysis Batch: 16119

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16164

Analyte	MB	MB							
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		01/06/22 13:57	01/06/22 15:37	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		01/06/22 13:57	01/06/22 15:37	1
OII Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/06/22 13:57	01/06/22 15:37	1

Surrogate	MB	MB							
	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				01/06/22 13:57	01/06/22 15:37	1
<i>o</i> -Terphenyl	92		70 - 130				01/06/22 13:57	01/06/22 15:37	1

Lab Sample ID: LCS 880-16164/2-A

Matrix: Solid

Analysis Batch: 16119

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16164

Analyte	Spike	LCS	LCS		%Rec.	
	Added	Result	Qualifier	Unit	D	Limits
Gasoline Range Organics (GRO)-C6-C10	1000	877.7		mg/Kg	88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	849.8		mg/Kg	85	70 - 130

Surrogate	LCS	LCS	
	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
<i>o</i> -Terphenyl	105		70 - 130

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**QC Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9906-1  
SDG: Eddy County, NM

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

**Lab Sample ID: LCSD 880-16164/3-A** **Client Sample ID: Lab Control Sample Dup**  
**Matrix: Solid** **Prep Type: Total/NA**  
**Analysis Batch: 16119** **Prep Batch: 16164**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1142	*1	mg/Kg		114	70 - 130	26	20
Diesel Range Organics (Over C10-C28)	1000	1150	*1	mg/Kg		115	70 - 130	30	20
<b>Surrogate</b>									
<b>1-Chlorooctane</b>									
135		S1+	70 - 130						
<i>o-Terphenyl</i>		135	S1+	70 - 130					

**Lab Sample ID: 880-9906-1 MS** **Client Sample ID: SW-9**  
**Matrix: Solid** **Prep Type: Total/NA**  
**Analysis Batch: 16119** **Prep Batch: 16164**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics (GRO)-C6-C10	19.0	J *1	996	838.4		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	60.9	*1	996	799.3		mg/Kg		74	70 - 130
<b>Surrogate</b>									
<b>1-Chlorooctane</b>		75	70 - 130						
<i>o-Terphenyl</i>		73	70 - 130						

**Lab Sample ID: 880-9906-1 MSD** **Client Sample ID: SW-9**  
**Matrix: Solid** **Prep Type: Total/NA**  
**Analysis Batch: 16119** **Prep Batch: 16164**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	19.0	J *1	999	875.2		mg/Kg		86	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	60.9	*1	999	838.6		mg/Kg		78	70 - 130	5	20
<b>Surrogate</b>											
<b>1-Chlorooctane</b>		76	70 - 130								
<i>o-Terphenyl</i>		74	70 - 130								

**Method: 300.0 - Anions, Ion Chromatography**

**Lab Sample ID: MB 880-16227/1-A** **Client Sample ID: Method Blank**  
**Matrix: Solid** **Prep Type: Soluble**  
**Analysis Batch: 16331**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.858	U	5.00	0.858	mg/Kg			01/07/22 23:29	1

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**QC Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9906-1  
SDG: Eddy County, NM

**Method: 300.0 - Anions, Ion Chromatography (Continued)****Lab Sample ID: LCS 880-16227/2-A****Matrix: Solid****Analysis Batch: 16331**

Analyte		Spike	LCS	LCS	Unit	D	%Rec	%Rec.	RPD	Limit
		Added	Result	Qualifier				mg/Kg		
Chloride		250	240.4				96	90 - 110		

**Lab Sample ID: LCSD 880-16227/3-A****Matrix: Solid****Analysis Batch: 16331**

Analyte		Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	Limit
		Added	Result	Qualifier				mg/Kg		
Chloride		250	226.0				90	90 - 110	6	20

**Lab Sample ID: 880-9906-1 MS****Matrix: Solid****Analysis Batch: 16331**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				mg/Kg		
Chloride	16.7	F1	253	210.9	F1			77	90 - 110		

**Lab Sample ID: 880-9906-1 MSD****Matrix: Solid****Analysis Batch: 16331**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				mg/Kg		
Chloride	16.7	F1	253	202.5	F1			74	90 - 110	4	20

**Lab Sample ID: 880-9906-11 MS****Matrix: Solid****Analysis Batch: 16331**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				mg/Kg		
Chloride	15.3		250	285.6				108	90 - 110		

**Lab Sample ID: 880-9906-11 MSD****Matrix: Solid****Analysis Batch: 16331**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				mg/Kg		
Chloride	15.3		250	288.6				109	90 - 110	1	20

**Lab Sample ID: MB 880-16230/1-A****Matrix: Solid****Analysis Batch: 16332**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<0.858	U	5.00	0.858	mg/Kg			01/10/22 10:15	1

**Lab Sample ID: LCS 880-16230/2-A****Matrix: Solid****Analysis Batch: 16332**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
Chloride	250	244.2				98	90 - 110

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**QC Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9906-1  
 SDG: Eddy County, NM

**Method: 300.0 - Anions, Ion Chromatography**

**Lab Sample ID: LCSD 880-16230/3-A** **Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Soluble**  
**Matrix: Solid**  
**Analysis Batch: 16332**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec.	RPD
		mg/Kg				Limits	Limit
Chloride	250	261.9			105	90 - 110	7

**Lab Sample ID: 880-9906-21 MS** **Client Sample ID: Ramp-3**  
**Prep Type: Soluble**  
**Matrix: Solid**  
**Analysis Batch: 16332**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec.
	F1			F1		mg/Kg		Limits
Chloride	11.1		252	291.4			111	90 - 110

**Lab Sample ID: 880-9906-21 MSD** **Client Sample ID: Ramp-3**  
**Prep Type: Soluble**  
**Matrix: Solid**  
**Analysis Batch: 16332**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec.
	F1			F1		mg/Kg		RPD
Chloride	11.1		252	300.3			115	90 - 110

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**QC Association Summary**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9906-1  
SDG: Eddy County, NM

**GC VOA****Prep Batch: 16093**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9906-21	Ramp-3	Total/NA	Solid	5035	
880-9906-22	Ramp-4	Total/NA	Solid	5035	
880-9906-23	Ramp-5	Total/NA	Solid	5035	
880-9906-24	Ramp-6	Total/NA	Solid	5035	
MB 880-16093/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-16093/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-16093/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

**Analysis Batch: 16114**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9906-21	Ramp-3	Total/NA	Solid	8021B	16093
880-9906-22	Ramp-4	Total/NA	Solid	8021B	16093
880-9906-23	Ramp-5	Total/NA	Solid	8021B	16093
880-9906-24	Ramp-6	Total/NA	Solid	8021B	16093
MB 880-16093/5-A	Method Blank	Total/NA	Solid	8021B	16093
LCS 880-16093/1-A	Lab Control Sample	Total/NA	Solid	8021B	16093
LCSD 880-16093/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	16093

**Prep Batch: 16149**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9906-1	SW-9	Total/NA	Solid	5035	
880-9906-2	SW-10	Total/NA	Solid	5035	
880-9906-3	SW-11	Total/NA	Solid	5035	
880-9906-4	SW-12	Total/NA	Solid	5035	
880-9906-5	SW-13	Total/NA	Solid	5035	
880-9906-6	SW-14	Total/NA	Solid	5035	
880-9906-7	SW-15	Total/NA	Solid	5035	
880-9906-8	SW-16	Total/NA	Solid	5035	
880-9906-9	SW-17	Total/NA	Solid	5035	
880-9906-10	SW-18	Total/NA	Solid	5035	
880-9906-11	SW-19	Total/NA	Solid	5035	
880-9906-12	SW-20	Total/NA	Solid	5035	
880-9906-13	SW-21	Total/NA	Solid	5035	
880-9906-14	SW-22	Total/NA	Solid	5035	
880-9906-15	SW-23	Total/NA	Solid	5035	
880-9906-16	SW-24	Total/NA	Solid	5035	
880-9906-17	SW-25	Total/NA	Solid	5035	
880-9906-18	SW-26	Total/NA	Solid	5035	
880-9906-19	Ramp-1	Total/NA	Solid	5035	
880-9906-20	Ramp-2	Total/NA	Solid	5035	
MB 880-16149/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-16149/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-16149/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9906-1 MS	SW-9	Total/NA	Solid	5035	
880-9906-1 MSD	SW-9	Total/NA	Solid	5035	

**Analysis Batch: 16151**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9906-1	SW-9	Total/NA	Solid	8021B	16149
880-9906-2	SW-10	Total/NA	Solid	8021B	16149
880-9906-3	SW-11	Total/NA	Solid	8021B	16149

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**QC Association Summary**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9906-1  
 SDG: Eddy County, NM

**GC VOA (Continued)****Analysis Batch: 16151 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9906-4	SW-12	Total/NA	Solid	8021B	16149
880-9906-5	SW-13	Total/NA	Solid	8021B	16149
880-9906-6	SW-14	Total/NA	Solid	8021B	16149
880-9906-7	SW-15	Total/NA	Solid	8021B	16149
880-9906-8	SW-16	Total/NA	Solid	8021B	16149
880-9906-9	SW-17	Total/NA	Solid	8021B	16149
880-9906-10	SW-18	Total/NA	Solid	8021B	16149
880-9906-11	SW-19	Total/NA	Solid	8021B	16149
880-9906-12	SW-20	Total/NA	Solid	8021B	16149
880-9906-13	SW-21	Total/NA	Solid	8021B	16149
880-9906-14	SW-22	Total/NA	Solid	8021B	16149
880-9906-15	SW-23	Total/NA	Solid	8021B	16149
880-9906-16	SW-24	Total/NA	Solid	8021B	16149
880-9906-17	SW-25	Total/NA	Solid	8021B	16149
880-9906-18	SW-26	Total/NA	Solid	8021B	16149
880-9906-19	Ramp-1	Total/NA	Solid	8021B	16149
880-9906-20	Ramp-2	Total/NA	Solid	8021B	16149
MB 880-16149/5-A	Method Blank	Total/NA	Solid	8021B	16149
LCS 880-16149/1-A	Lab Control Sample	Total/NA	Solid	8021B	16149
LCSD 880-16149/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	16149
880-9906-1 MS	SW-9	Total/NA	Solid	8021B	16149
880-9906-1 MSD	SW-9	Total/NA	Solid	8021B	16149

**Analysis Batch: 16205**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9906-1	SW-9	Total/NA	Solid	Total BTEX	
880-9906-2	SW-10	Total/NA	Solid	Total BTEX	
880-9906-3	SW-11	Total/NA	Solid	Total BTEX	
880-9906-4	SW-12	Total/NA	Solid	Total BTEX	
880-9906-5	SW-13	Total/NA	Solid	Total BTEX	
880-9906-6	SW-14	Total/NA	Solid	Total BTEX	
880-9906-7	SW-15	Total/NA	Solid	Total BTEX	
880-9906-8	SW-16	Total/NA	Solid	Total BTEX	
880-9906-9	SW-17	Total/NA	Solid	Total BTEX	
880-9906-10	SW-18	Total/NA	Solid	Total BTEX	
880-9906-11	SW-19	Total/NA	Solid	Total BTEX	
880-9906-12	SW-20	Total/NA	Solid	Total BTEX	
880-9906-13	SW-21	Total/NA	Solid	Total BTEX	
880-9906-14	SW-22	Total/NA	Solid	Total BTEX	
880-9906-15	SW-23	Total/NA	Solid	Total BTEX	
880-9906-16	SW-24	Total/NA	Solid	Total BTEX	
880-9906-17	SW-25	Total/NA	Solid	Total BTEX	
880-9906-18	SW-26	Total/NA	Solid	Total BTEX	
880-9906-19	Ramp-1	Total/NA	Solid	Total BTEX	
880-9906-20	Ramp-2	Total/NA	Solid	Total BTEX	

**Analysis Batch: 16207**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9906-21	Ramp-3	Total/NA	Solid	Total BTEX	
880-9906-22	Ramp-4	Total/NA	Solid	Total BTEX	
880-9906-23	Ramp-5	Total/NA	Solid	Total BTEX	

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**QC Association Summary**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9906-1  
 SDG: Eddy County, NM

**GC VOA (Continued)****Analysis Batch: 16207 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9906-24	Ramp-6	Total/NA	Solid	Total BTEX	

**GC Semi VOA****Analysis Batch: 16116**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9906-21	Ramp-3	Total/NA	Solid	8015B NM	16124
880-9906-22	Ramp-4	Total/NA	Solid	8015B NM	16124
880-9906-23	Ramp-5	Total/NA	Solid	8015B NM	16124
880-9906-24	Ramp-6	Total/NA	Solid	8015B NM	16124
MB 880-16124/1-A	Method Blank	Total/NA	Solid	8015B NM	16124
LCS 880-16124/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	16124
LCSD 880-16124/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	16124

**Analysis Batch: 16119**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9906-1	SW-9	Total/NA	Solid	8015B NM	16164
880-9906-2	SW-10	Total/NA	Solid	8015B NM	16164
880-9906-3	SW-11	Total/NA	Solid	8015B NM	16164
880-9906-4	SW-12	Total/NA	Solid	8015B NM	16164
880-9906-5	SW-13	Total/NA	Solid	8015B NM	16164
880-9906-6	SW-14	Total/NA	Solid	8015B NM	16164
880-9906-7	SW-15	Total/NA	Solid	8015B NM	16164
880-9906-8	SW-16	Total/NA	Solid	8015B NM	16164
880-9906-9	SW-17	Total/NA	Solid	8015B NM	16164
880-9906-10	SW-18	Total/NA	Solid	8015B NM	16164
880-9906-11	SW-19	Total/NA	Solid	8015B NM	16164
880-9906-12	SW-20	Total/NA	Solid	8015B NM	16164
880-9906-13	SW-21	Total/NA	Solid	8015B NM	16164
880-9906-14	SW-22	Total/NA	Solid	8015B NM	16164
880-9906-15	SW-23	Total/NA	Solid	8015B NM	16164
880-9906-16	SW-24	Total/NA	Solid	8015B NM	16164
880-9906-17	SW-25	Total/NA	Solid	8015B NM	16164
880-9906-18	SW-26	Total/NA	Solid	8015B NM	16164
880-9906-19	Ramp-1	Total/NA	Solid	8015B NM	16164
880-9906-20	Ramp-2	Total/NA	Solid	8015B NM	16164
MB 880-16164/1-A	Method Blank	Total/NA	Solid	8015B NM	16164
LCS 880-16164/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	16164
LCSD 880-16164/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	16164
880-9906-1 MS	SW-9	Total/NA	Solid	8015B NM	16164
880-9906-1 MSD	SW-9	Total/NA	Solid	8015B NM	16164

**Prep Batch: 16124**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9906-21	Ramp-3	Total/NA	Solid	8015NM Prep	
880-9906-22	Ramp-4	Total/NA	Solid	8015NM Prep	
880-9906-23	Ramp-5	Total/NA	Solid	8015NM Prep	
880-9906-24	Ramp-6	Total/NA	Solid	8015NM Prep	
MB 880-16124/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-16124/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-16124/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

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**QC Association Summary**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9906-1  
 SDG: Eddy County, NM

**GC Semi VOA****Prep Batch: 16164**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9906-1	SW-9	Total/NA	Solid	8015NM Prep	1
880-9906-2	SW-10	Total/NA	Solid	8015NM Prep	2
880-9906-3	SW-11	Total/NA	Solid	8015NM Prep	3
880-9906-4	SW-12	Total/NA	Solid	8015NM Prep	4
880-9906-5	SW-13	Total/NA	Solid	8015NM Prep	5
880-9906-6	SW-14	Total/NA	Solid	8015NM Prep	6
880-9906-7	SW-15	Total/NA	Solid	8015NM Prep	7
880-9906-8	SW-16	Total/NA	Solid	8015NM Prep	8
880-9906-9	SW-17	Total/NA	Solid	8015NM Prep	9
880-9906-10	SW-18	Total/NA	Solid	8015NM Prep	10
880-9906-11	SW-19	Total/NA	Solid	8015NM Prep	11
880-9906-12	SW-20	Total/NA	Solid	8015NM Prep	12
880-9906-13	SW-21	Total/NA	Solid	8015NM Prep	13
880-9906-14	SW-22	Total/NA	Solid	8015NM Prep	14
880-9906-15	SW-23	Total/NA	Solid	8015NM Prep	
880-9906-16	SW-24	Total/NA	Solid	8015NM Prep	
880-9906-17	SW-25	Total/NA	Solid	8015NM Prep	
880-9906-18	SW-26	Total/NA	Solid	8015NM Prep	
880-9906-19	Ramp-1	Total/NA	Solid	8015NM Prep	
880-9906-20	Ramp-2	Total/NA	Solid	8015NM Prep	
MB 880-16164/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-16164/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-16164/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-9906-1 MS	SW-9	Total/NA	Solid	8015NM Prep	
880-9906-1 MSD	SW-9	Total/NA	Solid	8015NM Prep	

**Analysis Batch: 16246**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9906-1	SW-9	Total/NA	Solid	8015 NM	1
880-9906-2	SW-10	Total/NA	Solid	8015 NM	2
880-9906-3	SW-11	Total/NA	Solid	8015 NM	3
880-9906-4	SW-12	Total/NA	Solid	8015 NM	4
880-9906-5	SW-13	Total/NA	Solid	8015 NM	5
880-9906-6	SW-14	Total/NA	Solid	8015 NM	6
880-9906-7	SW-15	Total/NA	Solid	8015 NM	7
880-9906-8	SW-16	Total/NA	Solid	8015 NM	8
880-9906-9	SW-17	Total/NA	Solid	8015 NM	9
880-9906-10	SW-18	Total/NA	Solid	8015 NM	10
880-9906-11	SW-19	Total/NA	Solid	8015 NM	11
880-9906-12	SW-20	Total/NA	Solid	8015 NM	12
880-9906-13	SW-21	Total/NA	Solid	8015 NM	13
880-9906-14	SW-22	Total/NA	Solid	8015 NM	14
880-9906-15	SW-23	Total/NA	Solid	8015 NM	
880-9906-16	SW-24	Total/NA	Solid	8015 NM	
880-9906-17	SW-25	Total/NA	Solid	8015 NM	
880-9906-18	SW-26	Total/NA	Solid	8015 NM	
880-9906-19	Ramp-1	Total/NA	Solid	8015 NM	
880-9906-20	Ramp-2	Total/NA	Solid	8015 NM	
880-9906-21	Ramp-3	Total/NA	Solid	8015 NM	
880-9906-22	Ramp-4	Total/NA	Solid	8015 NM	
880-9906-23	Ramp-5	Total/NA	Solid	8015 NM	

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**QC Association Summary**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9906-1  
 SDG: Eddy County, NM

**GC Semi VOA (Continued)****Analysis Batch: 16246 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9906-24	Ramp-6	Total/NA	Solid	8015 NM	

**HPLC/IC****Leach Batch: 16227**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9906-1	SW-9	Soluble	Solid	DI Leach	
880-9906-2	SW-10	Soluble	Solid	DI Leach	
880-9906-3	SW-11	Soluble	Solid	DI Leach	
880-9906-4	SW-12	Soluble	Solid	DI Leach	
880-9906-5	SW-13	Soluble	Solid	DI Leach	
880-9906-6	SW-14	Soluble	Solid	DI Leach	
880-9906-7	SW-15	Soluble	Solid	DI Leach	
880-9906-8	SW-16	Soluble	Solid	DI Leach	
880-9906-9	SW-17	Soluble	Solid	DI Leach	
880-9906-10	SW-18	Soluble	Solid	DI Leach	
880-9906-11	SW-19	Soluble	Solid	DI Leach	
880-9906-12	SW-20	Soluble	Solid	DI Leach	
880-9906-13	SW-21	Soluble	Solid	DI Leach	
880-9906-14	SW-22	Soluble	Solid	DI Leach	
880-9906-15	SW-23	Soluble	Solid	DI Leach	
880-9906-16	SW-24	Soluble	Solid	DI Leach	
880-9906-17	SW-25	Soluble	Solid	DI Leach	
880-9906-18	SW-26	Soluble	Solid	DI Leach	
880-9906-19	Ramp-1	Soluble	Solid	DI Leach	
880-9906-20	Ramp-2	Soluble	Solid	DI Leach	
MB 880-16227/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-16227/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-16227/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-9906-1 MS	SW-9	Soluble	Solid	DI Leach	
880-9906-1 MSD	SW-9	Soluble	Solid	DI Leach	
880-9906-11 MS	SW-19	Soluble	Solid	DI Leach	
880-9906-11 MSD	SW-19	Soluble	Solid	DI Leach	

**Leach Batch: 16230**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9906-21	Ramp-3	Soluble	Solid	DI Leach	
880-9906-22	Ramp-4	Soluble	Solid	DI Leach	
880-9906-23	Ramp-5	Soluble	Solid	DI Leach	
880-9906-24	Ramp-6	Soluble	Solid	DI Leach	
MB 880-16230/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-16230/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-16230/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-9906-21 MS	Ramp-3	Soluble	Solid	DI Leach	
880-9906-21 MSD	Ramp-3	Soluble	Solid	DI Leach	

**Analysis Batch: 16331**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9906-1	SW-9	Soluble	Solid	300.0	16227
880-9906-2	SW-10	Soluble	Solid	300.0	16227
880-9906-3	SW-11	Soluble	Solid	300.0	16227

Eurofins Midland

**QC Association Summary**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9906-1  
 SDG: Eddy County, NM

**HPLC/IC (Continued)****Analysis Batch: 16331 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9906-4	SW-12	Soluble	Solid	300.0	16227
880-9906-5	SW-13	Soluble	Solid	300.0	16227
880-9906-6	SW-14	Soluble	Solid	300.0	16227
880-9906-7	SW-15	Soluble	Solid	300.0	16227
880-9906-8	SW-16	Soluble	Solid	300.0	16227
880-9906-9	SW-17	Soluble	Solid	300.0	16227
880-9906-10	SW-18	Soluble	Solid	300.0	16227
880-9906-11	SW-19	Soluble	Solid	300.0	16227
880-9906-12	SW-20	Soluble	Solid	300.0	16227
880-9906-13	SW-21	Soluble	Solid	300.0	16227
880-9906-14	SW-22	Soluble	Solid	300.0	16227
880-9906-15	SW-23	Soluble	Solid	300.0	16227
880-9906-16	SW-24	Soluble	Solid	300.0	16227
880-9906-17	SW-25	Soluble	Solid	300.0	16227
880-9906-18	SW-26	Soluble	Solid	300.0	16227
880-9906-19	Ramp-1	Soluble	Solid	300.0	16227
880-9906-20	Ramp-2	Soluble	Solid	300.0	16227
MB 880-16227/1-A	Method Blank	Soluble	Solid	300.0	16227
LCS 880-16227/2-A	Lab Control Sample	Soluble	Solid	300.0	16227
LCSD 880-16227/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	16227
880-9906-1 MS	SW-9	Soluble	Solid	300.0	16227
880-9906-1 MSD	SW-9	Soluble	Solid	300.0	16227
880-9906-11 MS	SW-19	Soluble	Solid	300.0	16227
880-9906-11 MSD	SW-19	Soluble	Solid	300.0	16227

**Analysis Batch: 16332**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9906-21	Ramp-3	Soluble	Solid	300.0	16230
880-9906-22	Ramp-4	Soluble	Solid	300.0	16230
880-9906-23	Ramp-5	Soluble	Solid	300.0	16230
880-9906-24	Ramp-6	Soluble	Solid	300.0	16230
MB 880-16230/1-A	Method Blank	Soluble	Solid	300.0	16230
LCS 880-16230/2-A	Lab Control Sample	Soluble	Solid	300.0	16230
LCSD 880-16230/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	16230
880-9906-21 MS	Ramp-3	Soluble	Solid	300.0	16230
880-9906-21 MSD	Ramp-3	Soluble	Solid	300.0	16230

**Lab Chronicle**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9906-1  
SDG: Eddy County, NM

**Client Sample ID: SW-9**

Date Collected: 01/04/22 13:00  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-1**

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	16149	01/06/22 12:58	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16151	01/06/22 17:18	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16205	01/07/22 08:34	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16246	01/07/22 12:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16164	01/06/22 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16119	01/06/22 16:58	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	16227	01/07/22 10:06	CH	XEN MID
Soluble	Analysis	300.0		1			16331	01/07/22 23:54	CH	XEN MID

**Client Sample ID: SW-10**

Date Collected: 01/04/22 13:05  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-2**

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			5.00 g	5 mL	16149	01/06/22 12:58	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16151	01/06/22 17:39	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16205	01/07/22 08:34	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16246	01/07/22 12:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16164	01/06/22 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16119	01/06/22 18:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	16227	01/07/22 10:06	CH	XEN MID
Soluble	Analysis	300.0		1			16331	01/08/22 00:19	CH	XEN MID

**Client Sample ID: SW-11**

Date Collected: 01/04/22 13:10  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-3**

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			5.00 g	5 mL	16149	01/06/22 12:58	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16151	01/06/22 17:59	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16205	01/07/22 08:34	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16246	01/07/22 12:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16164	01/06/22 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16119	01/06/22 18:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	16227	01/07/22 10:06	CH	XEN MID
Soluble	Analysis	300.0		1			16331	01/08/22 00:27	CH	XEN MID

**Client Sample ID: SW-12**

Date Collected: 01/04/22 13:15  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-4**

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			5.05 g	5 mL	16149	01/06/22 12:58	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16151	01/06/22 18:20	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16205	01/07/22 08:34	KL	XEN MID

Eurofins Midland

**Lab Chronicle**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9906-1  
SDG: Eddy County, NM

**Client Sample ID: SW-12**

Date Collected: 01/04/22 13:15

Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-4**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			16246	01/07/22 12:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	16164	01/06/22 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16119	01/06/22 18:42	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	16227	01/07/22 10:06	CH	XEN MID
Soluble	Analysis	300.0		1			16331	01/08/22 00:36	CH	XEN MID

**Client Sample ID: SW-13**

Date Collected: 01/04/22 13:20

Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-5**

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	16149	01/06/22 12:58	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16151	01/06/22 18:40	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16205	01/07/22 08:34	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16246	01/07/22 12:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16164	01/06/22 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16119	01/06/22 19:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	16227	01/07/22 10:06	CH	XEN MID
Soluble	Analysis	300.0		1			16331	01/08/22 00:44	CH	XEN MID

**Client Sample ID: SW-14**

Date Collected: 01/04/22 13:25

Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-6**

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			5.01 g	5 mL	16149	01/06/22 12:58	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16151	01/06/22 19:01	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16205	01/07/22 08:34	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16246	01/07/22 12:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16164	01/06/22 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16119	01/06/22 19:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	16227	01/07/22 10:06	CH	XEN MID
Soluble	Analysis	300.0		1			16331	01/08/22 01:09	CH	XEN MID

**Client Sample ID: SW-15**

Date Collected: 01/04/22 13:30

Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-7**

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			4.98 g	5 mL	16149	01/06/22 12:58	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16151	01/06/22 19:21	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16205	01/07/22 08:34	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16246	01/07/22 12:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16164	01/06/22 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16119	01/06/22 19:47	AJ	XEN MID

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**Lab Chronicle**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9906-1  
SDG: Eddy County, NM

**Client Sample ID: SW-15**  
Date Collected: 01/04/22 13:30  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-7**  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	16227	01/07/22 10:06	CH	XEN MID
Soluble	Analysis	300.0		1			16331	01/08/22 01:17	CH	XEN MID

**Client Sample ID: SW-16**  
Date Collected: 01/04/22 13:40  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-8**  
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			4.99 g	5 mL	16149	01/06/22 12:58	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16151	01/06/22 19:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16205	01/07/22 08:34	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16246	01/07/22 12:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	16164	01/06/22 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16119	01/06/22 20:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	16227	01/07/22 10:06	CH	XEN MID
Soluble	Analysis	300.0		1			16331	01/08/22 01:26	CH	XEN MID

**Client Sample ID: SW-17**  
Date Collected: 01/04/22 13:45  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-9**  
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			4.98 g	5 mL	16149	01/06/22 12:58	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16151	01/06/22 20:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16205	01/07/22 08:34	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16246	01/07/22 12:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16164	01/06/22 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16119	01/06/22 20:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	16227	01/07/22 10:06	CH	XEN MID
Soluble	Analysis	300.0		1			16331	01/08/22 17:09	CH	XEN MID

**Client Sample ID: SW-18**  
Date Collected: 01/04/22 13:50  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-10**  
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			5.00 g	5 mL	16149	01/06/22 12:58	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16151	01/06/22 20:23	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16205	01/07/22 08:34	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16246	01/07/22 12:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16164	01/06/22 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16119	01/06/22 20:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	16227	01/07/22 10:06	CH	XEN MID
Soluble	Analysis	300.0		1			16331	01/08/22 17:17	CH	XEN MID

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**Lab Chronicle**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9906-1  
 SDG: Eddy County, NM

**Client Sample ID: SW-19**

Date Collected: 01/04/22 13:55

Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-11**

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			5.01 g	5 mL	16149	01/06/22 12:58	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16151	01/06/22 22:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16205	01/07/22 08:34	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16246	01/07/22 12:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16164	01/06/22 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16119	01/06/22 21:34	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	16227	01/07/22 10:06	CH	XEN MID
Soluble	Analysis	300.0		1			16331	01/08/22 17:25	CH	XEN MID

**Client Sample ID: SW-20**

Date Collected: 01/04/22 14:00

Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-12**

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			4.95 g	5 mL	16149	01/06/22 12:58	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16151	01/06/22 22:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16205	01/07/22 08:34	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16246	01/07/22 12:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16164	01/06/22 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16119	01/06/22 21:56	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	16227	01/07/22 10:06	CH	XEN MID
Soluble	Analysis	300.0		1			16331	01/08/22 17:50	CH	XEN MID

**Client Sample ID: SW-21**

Date Collected: 01/04/22 14:05

Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-13**

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	16149	01/06/22 12:58	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16151	01/06/22 22:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16205	01/07/22 08:34	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16246	01/07/22 12:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16164	01/06/22 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16119	01/06/22 22:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	16227	01/07/22 10:06	CH	XEN MID
Soluble	Analysis	300.0		1			16331	01/08/22 17:59	CH	XEN MID

**Client Sample ID: SW-22**

Date Collected: 01/04/22 14:10

Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-14**

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	16149	01/06/22 12:58	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16151	01/06/22 23:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16205	01/07/22 08:34	KL	XEN MID

Eurofins Midland

**Lab Chronicle**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9906-1  
SDG: Eddy County, NM

**Client Sample ID: SW-22**

Date Collected: 01/04/22 14:10  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-14**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			16246	01/07/22 12:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16164	01/06/22 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16119	01/06/22 22:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	16227	01/07/22 10:06	CH	XEN MID
Soluble	Analysis	300.0		1			16331	01/08/22 18:24	CH	XEN MID

**Client Sample ID: SW-23**

Date Collected: 01/04/22 14:15  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-15**

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			4.97 g	5 mL	16149	01/06/22 12:58	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16151	01/06/22 23:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16205	01/07/22 08:34	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16246	01/07/22 12:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	16164	01/06/22 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16119	01/06/22 23:00	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	16227	01/07/22 10:06	CH	XEN MID
Soluble	Analysis	300.0		1			16331	01/08/22 18:32	CH	XEN MID

**Client Sample ID: SW-24**

Date Collected: 01/04/22 14:20  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-16**

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			4.99 g	5 mL	16149	01/06/22 12:58	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16151	01/06/22 23:55	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16205	01/07/22 08:34	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16246	01/07/22 12:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16164	01/06/22 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16119	01/06/22 23:22	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	16227	01/07/22 10:06	CH	XEN MID
Soluble	Analysis	300.0		1			16331	01/08/22 18:41	CH	XEN MID

**Client Sample ID: SW-25**

Date Collected: 01/04/22 14:25  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-17**

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			5.05 g	5 mL	16149	01/06/22 12:58	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16151	01/07/22 00:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16205	01/07/22 08:34	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16246	01/07/22 12:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16164	01/06/22 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16119	01/06/22 23:43	AJ	XEN MID

Eurofins Midland

**Lab Chronicle**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9906-1  
SDG: Eddy County, NM

**Client Sample ID: SW-25**  
Date Collected: 01/04/22 14:25  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-17**  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	16227	01/07/22 10:06	CH	XEN MID
Soluble	Analysis	300.0		1			16331	01/08/22 18:49	CH	XEN MID

**Client Sample ID: SW-26**  
Date Collected: 01/04/22 14:30  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-18**  
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			5.04 g	5 mL	16149	01/06/22 12:58	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16151	01/07/22 00:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16205	01/07/22 08:34	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16246	01/07/22 12:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	16164	01/06/22 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16119	01/07/22 00:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	16227	01/07/22 10:06	CH	XEN MID
Soluble	Analysis	300.0		1			16331	01/08/22 18:57	CH	XEN MID

**Client Sample ID: Ramp-1**  
Date Collected: 01/04/22 14:35  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-19**  
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	16149	01/06/22 12:58	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16151	01/07/22 00:57	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16205	01/07/22 08:34	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16246	01/07/22 12:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16164	01/06/22 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16119	01/07/22 00:26	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	16227	01/07/22 10:06	CH	XEN MID
Soluble	Analysis	300.0		1			16331	01/08/22 19:06	CH	XEN MID

**Client Sample ID: Ramp-2**  
Date Collected: 01/04/22 14:40  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-20**  
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			4.97 g	5 mL	16149	01/06/22 12:58	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16151	01/07/22 01:17	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16205	01/07/22 08:34	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16246	01/07/22 12:24	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	16164	01/06/22 13:57	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16119	01/07/22 00:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	16227	01/07/22 10:06	CH	XEN MID
Soluble	Analysis	300.0		1			16331	01/08/22 19:14	CH	XEN MID

Eurofins Midland

**Lab Chronicle**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9906-1  
 SDG: Eddy County, NM

**Client Sample ID: Ramp-3**  
**Date Collected: 01/04/22 14:45**  
**Date Received: 01/06/22 00:00**

**Lab Sample ID: 880-9906-21**  
**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			4.95 g	5 mL	16093	01/06/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16114	01/06/22 21:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16207	01/07/22 08:42	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16246	01/07/22 12:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16124	01/06/22 13:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16116	01/06/22 22:56	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	16230	01/07/22 10:08	CH	XEN MID
Soluble	Analysis	300.0		1			16332	01/10/22 11:08	CH	XEN MID

**Client Sample ID: Ramp-4**  
**Date Collected: 01/04/22 14:50**  
**Date Received: 01/06/22 00:00**

**Lab Sample ID: 880-9906-22**  
**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	16093	01/06/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16114	01/06/22 22:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16207	01/07/22 08:42	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16246	01/07/22 12:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16124	01/06/22 13:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16116	01/06/22 23:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	16230	01/07/22 10:08	CH	XEN MID
Soluble	Analysis	300.0		1			16332	01/10/22 11:34	CH	XEN MID

**Client Sample ID: Ramp-5**  
**Date Collected: 01/04/22 14:55**  
**Date Received: 01/06/22 00:00**

**Lab Sample ID: 880-9906-23**  
**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	16093	01/06/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16114	01/06/22 22:40	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16207	01/07/22 08:42	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16246	01/07/22 12:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16124	01/06/22 13:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16116	01/06/22 23:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	16230	01/07/22 10:08	CH	XEN MID
Soluble	Analysis	300.0		1			16332	01/10/22 11:42	CH	XEN MID

**Client Sample ID: Ramp-6**  
**Date Collected: 01/04/22 15:00**  
**Date Received: 01/06/22 00:00**

**Lab Sample ID: 880-9906-24**  
**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	16093	01/06/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16114	01/06/22 23:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16207	01/07/22 08:42	KL	XEN MID

Eurofins Midland

**Lab Chronicle**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9906-1  
 SDG: Eddy County, NM

**Client Sample ID: Ramp-6**

Date Collected: 01/04/22 15:00

Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9906-24**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			16246	01/07/22 12:49	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16124	01/06/22 13:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16116	01/06/22 23:59	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	16230	01/07/22 10:08	CH	XEN MID
Soluble	Analysis	300.0		1			16332	01/10/22 11:51	CH	XEN MID

**Laboratory References:**

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

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Eurofins Midland

## Accreditation/Certification Summary

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9906-1  
SDG: Eddy County, NM

### **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

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Eurofins Midland

## Method Summary

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9906-1  
SDG: Eddy County, NM

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

Eurofins Midland

**Sample Summary**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9906-1  
 SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
880-9906-1	SW-9	Solid	01/04/22 13:00	01/06/22 00:00	1
880-9906-2	SW-10	Solid	01/04/22 13:05	01/06/22 00:00	2
880-9906-3	SW-11	Solid	01/04/22 13:10	01/06/22 00:00	3
880-9906-4	SW-12	Solid	01/04/22 13:15	01/06/22 00:00	4
880-9906-5	SW-13	Solid	01/04/22 13:20	01/06/22 00:00	5
880-9906-6	SW-14	Solid	01/04/22 13:25	01/06/22 00:00	6
880-9906-7	SW-15	Solid	01/04/22 13:30	01/06/22 00:00	7
880-9906-8	SW-16	Solid	01/04/22 13:40	01/06/22 00:00	8
880-9906-9	SW-17	Solid	01/04/22 13:45	01/06/22 00:00	9
880-9906-10	SW-18	Solid	01/04/22 13:50	01/06/22 00:00	10
880-9906-11	SW-19	Solid	01/04/22 13:55	01/06/22 00:00	11
880-9906-12	SW-20	Solid	01/04/22 14:00	01/06/22 00:00	12
880-9906-13	SW-21	Solid	01/04/22 14:05	01/06/22 00:00	13
880-9906-14	SW-22	Solid	01/04/22 14:10	01/06/22 00:00	14
880-9906-15	SW-23	Solid	01/04/22 14:15	01/06/22 00:00	
880-9906-16	SW-24	Solid	01/04/22 14:20	01/06/22 00:00	
880-9906-17	SW-25	Solid	01/04/22 14:25	01/06/22 00:00	
880-9906-18	SW-26	Solid	01/04/22 14:30	01/06/22 00:00	
880-9906-19	Ramp-1	Solid	01/04/22 14:35	01/06/22 00:00	
880-9906-20	Ramp-2	Solid	01/04/22 14:40	01/06/22 00:00	
880-9906-21	Ramp-3	Solid	01/04/22 14:45	01/06/22 00:00	
880-9906-22	Ramp-4	Solid	01/04/22 14:50	01/06/22 00:00	
880-9906-23	Ramp-5	Solid	01/04/22 14:55	01/06/22 00:00	
880-9906-24	Ramp-6	Solid	01/04/22 15:00	01/06/22 00:00	



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## Chain of Custody

Work Order No.: 9900

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

Project Manager	<u>Becky</u>	Bill to (if different)	<u>Direct to Plans</u>
Company Name	<u>GHD</u>	Company Name	
Address		Address	
City/State ZIP		City/State ZIP	
Phone		Email:	<u>Becky_ALGroves</u>

Project Name	<u>Mapping Pumps</u>	Turn Around	
Project Number	<u>12565619</u>	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush
Project Location	<u>Eddy County, NM</u>	Due Date	<u>3 Day</u>
Sampler's Name	<u>Heath Boyd</u>	TAT starts the day received by the lab if received by 4:30pm	
PO #:			

<b>SAMPLE RECEIPT</b>	Temp Blank.	<input checked="" type="radio"/> Yes <input type="radio"/> No	Wet Ice	<input checked="" type="radio"/> Yes <input type="radio"/> No
Samples Received Intact.	(Yes) <input checked="" type="radio"/> No <input type="radio"/> N/A	Thermometer ID	<u>128</u>	
Cooler Custody Seals	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	Correction Factor	<u>.10</u>	
Sample Custody Seals	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A	Temperature Reading	<u>33</u>	
Total Containers.		Corrected Temperature	<u>34</u>	

Parameters  
TPH 8015M  
BTEX 8021B  
Chloride 300

ANALYSIS REQUEST							Preservative Codes	
<b>Work Order Comments</b>							None NO	DI Water H <sub>2</sub> O
Program: UST/PST	<input type="checkbox"/>	PRT	<input type="checkbox"/>	Brownfields	<input type="checkbox"/>	RRD	<input type="checkbox"/>	Superfund
State of Project:								
Reporting Level II	<input type="checkbox"/>	I Level III	<input type="checkbox"/>	PST/UST	<input type="checkbox"/>	TRRP	<input type="checkbox"/>	Level IV
Deliverables	EDD	<input type="checkbox"/>	ADAPT	<input type="checkbox"/>	Other			

Sample Identification							Sample Comments	
	Matrix	Date Sampled	Time Sampled	Depth	Grab Comp	# of Cont		
<u>SW-19</u>	<u>S</u>	<u>1/4</u>	<u>1355</u>	<u>Comp</u>	<u>1</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>SW-20</u>	<u>S</u>	<u>1400</u>		<u>1</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>SW-21</u>	<u>S</u>	<u>1405</u>		<u>1</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>SW-22</u>	<u>S</u>	<u>1410</u>		<u>1</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>SW-23</u>	<u>S</u>	<u>1415</u>		<u>1</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>SW-24</u>	<u>S</u>	<u>1420</u>		<u>1</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>SW-25</u>	<u>S</u>	<u>1425</u>		<u>1</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>SW-26</u>	<u>S</u>	<u>1430</u>		<u>1</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>Camp-1</u>	<u>S</u>	<u>1435</u>		<u>1</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
<u>Camp-2</u>	<u>S</u>	<u>1440</u>		<u>1</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>

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 K Se Ag SiO<sub>2</sub> 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 / 2451 / 7470 / 7471

Notice: Signature of this document and relinquishment or samples constitutes a valid purchase order from client company to Eurofins Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno will be liable only for the costs of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xeno. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
<u>Becky</u>	<u>M. J. Groves</u>	<u>1/5/22 12:02</u>	<u>Becky</u>	<u>1-6-22 11:40</u>	

CHAIN OF CUSTODY REPORT

Pg. 3 of 3

## Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 880-9906-1  
SDG Number: Eddy County, NM**Login Number:** 9906**List Source:** Eurofins Midland**List Number:** 1**Creator:** Teel, Brianna

Question	Answer	Comment	
The cooler's custody seal, if present, is intact.	N/A		1
Sample custody seals, if present, are intact.	N/A		2
The cooler or samples do not appear to have been compromised or tampered with.	True		3
Samples were received on ice.	True		4
Cooler Temperature is acceptable.	True		5
Cooler Temperature is recorded.	True		6
COC is present.	True		7
COC is filled out in ink and legible.	True		8
COC is filled out with all pertinent information.	True		9
Is the Field Sampler's name present on COC?	True		10
There are no discrepancies between the containers received and the COC.	True		11
Samples are received within Holding Time (excluding tests with immediate HTs)	True		12
Sample containers have legible labels.	True		13
Containers are not broken or leaking.	True		14
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		



Environment Testing  
America



## ANALYTICAL REPORT

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

Laboratory Job ID: 880-9907-1

Laboratory Sample Delivery Group: Eddy County, NM  
Client Project/Site: Snapping Pumps

For:  
GHD Services Inc.  
2135 South Loop 250 West  
Midland, Texas 79703

Attn: Becky Haskell

Authorized for release by:  
1/11/2022 3:34:37 PM

Debbie Simmons, Project Manager  
(832)986-6768  
[debbie.simmons@eurofinset.com](mailto:debbie.simmons@eurofinset.com)

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The  
Expert

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[www.eurofinsus.com/Env](http://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.

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Laboratory Job ID: 880-9907-1  
SDG: Eddy County, NM

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## Definitions/Glossary

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9907-1  
SDG: Eddy County, NM

### Qualifiers

#### GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

#### HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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.
¤	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: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9907-1  
SDG: Eddy County, NM

### Job ID: 880-9907-1

#### Laboratory: Eurofins Midland

##### Narrative

##### Job Narrative 880-9907-1

##### Comments

No additional comments.

##### Receipt

The samples were received on 1/6/2022 11:40 AM. 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 3.4° C.

##### GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-16150 and analytical batch 880-16113 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-16142 and analytical batch 880-16117 recovered outside control limits for the following analytes: <AffectedAnalytes>.

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

##### General Chemistry

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-16230 and analytical batch 880-16332 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or 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: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9907-1  
SDG: Eddy County, NM

**Client Sample ID: BH-14**  
Date Collected: 01/05/22 07:50  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9907-1**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		01/06/22 13:04	01/06/22 22:31	1
Toluene	<b>0.000469</b>	J	0.00199	0.000453	mg/Kg		01/06/22 13:04	01/06/22 22:31	1
Ethylbenzene	<0.000562	U F1	0.00199	0.000562	mg/Kg		01/06/22 13:04	01/06/22 22:31	1
m-Xylene & p-Xylene	<0.00100	U F1	0.00398	0.00100	mg/Kg		01/06/22 13:04	01/06/22 22:31	1
o-Xylene	<0.000342	U F1	0.00199	0.000342	mg/Kg		01/06/22 13:04	01/06/22 22:31	1
Xylenes, Total	<0.00100	U F1	0.00398	0.00100	mg/Kg		01/06/22 13:04	01/06/22 22:31	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	98		70 - 130				01/06/22 13:04	01/06/22 22:31	1
1,4-Difluorobenzene (Surr)	117		70 - 130				01/06/22 13:04	01/06/22 22:31	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			01/07/22 08:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<b>108</b>		49.9	15.0	mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<b>22.3</b>	J	49.9	15.0	mg/Kg		01/06/22 13:00	01/06/22 21:34	1
Diesel Range Organics (Over C10-C28)	<b>85.9</b> *1		49.9	15.0	mg/Kg		01/06/22 13:00	01/06/22 21:34	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		01/06/22 13:00	01/06/22 21:34	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	82		70 - 130				01/06/22 13:00	01/06/22 21:34	1
o-Terphenyl	96		70 - 130				01/06/22 13:00	01/06/22 21:34	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<b>12.9</b>		4.99	0.857	mg/Kg			01/10/22 11:59	1

**Client Sample ID: BH-15**  
Date Collected: 01/05/22 08:00  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9907-2**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<b>0.000625</b>	J	0.00201	0.000387	mg/Kg		01/06/22 13:04	01/06/22 22:52	1
Toluene	<b>0.000623</b>	J	0.00201	0.000458	mg/Kg		01/06/22 13:04	01/06/22 22:52	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg		01/06/22 13:04	01/06/22 22:52	1
m-Xylene & p-Xylene	<0.00101	U	0.00402	0.00101	mg/Kg		01/06/22 13:04	01/06/22 22:52	1
<b>o-Xylene</b>	<b>0.000926</b>	J	0.00201	0.000345	mg/Kg		01/06/22 13:04	01/06/22 22:52	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		01/06/22 13:04	01/06/22 22:52	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	113		70 - 130				01/06/22 13:04	01/06/22 22:52	1
1,4-Difluorobenzene (Surr)	106		70 - 130				01/06/22 13:04	01/06/22 22:52	1

Eurofins Midland

**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9907-1  
SDG: Eddy County, NM

**Client Sample ID: BH-15**  
Date Collected: 01/05/22 08:00  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9907-2**  
Matrix: Solid

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00217	J	0.00402	0.00101	mg/Kg			01/07/22 08:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	32.3	J	49.9	15.0	mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		01/06/22 13:00	01/06/22 21:56	1
Diesel Range Organics (Over C10-C28)	32.3	J *1	49.9	15.0	mg/Kg		01/06/22 13:00	01/06/22 21:56	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		01/06/22 13:00	01/06/22 21:56	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	69	S1-	70 - 130				01/06/22 13:00	01/06/22 21:56	1
<i>o</i> -Terphenyl	80		70 - 130				01/06/22 13:00	01/06/22 21:56	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.38		4.98	0.855	mg/Kg			01/10/22 12:24	1

**Client Sample ID: BH-16****Lab Sample ID: 880-9907-3**

Date Collected: 01/05/22 08:05  
Date Received: 01/06/22 00:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00153	J	0.00200	0.000384	mg/Kg		01/06/22 13:04	01/06/22 23:12	1
Toluene	0.0487		0.00200	0.000455	mg/Kg		01/06/22 13:04	01/06/22 23:12	1
Ethylbenzene	0.0889		0.00200	0.000564	mg/Kg		01/06/22 13:04	01/06/22 23:12	1
m-Xylene & p-Xylene	0.427		0.00399	0.00101	mg/Kg		01/06/22 13:04	01/06/22 23:12	1
<i>o</i> -Xylene	0.143		0.00200	0.000343	mg/Kg		01/06/22 13:04	01/06/22 23:12	1
Xylenes, Total	0.570		0.00399	0.00101	mg/Kg		01/06/22 13:04	01/06/22 23:12	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	201	S1+	70 - 130				01/06/22 13:04	01/06/22 23:12	1
1,4-Difluorobenzene (Surr)	105		70 - 130				01/06/22 13:04	01/06/22 23:12	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.709		0.00399	0.00101	mg/Kg			01/07/22 08:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	656		50.0	15.0	mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	36.2	J	50.0	15.0	mg/Kg		01/06/22 13:00	01/06/22 22:17	1
Diesel Range Organics (Over C10-C28)	570	*1	50.0	15.0	mg/Kg		01/06/22 13:00	01/06/22 22:17	1

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**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9907-1  
SDG: Eddy County, NM

**Client Sample ID: BH-16**  
Date Collected: 01/05/22 08:05  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9907-3**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	49.6	J	50.0	15.0	mg/Kg		01/06/22 13:00	01/06/22 22:17	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	72		70 - 130				01/06/22 13:00	01/06/22 22:17	1
o-Terphenyl	84		70 - 130				01/06/22 13:00	01/06/22 22:17	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.92		4.95	0.850	mg/Kg			01/10/22 12:33	1

**Client Sample ID: BH-17**

**Lab Sample ID: 880-9907-4**  
Matrix: Solid

Date Collected: 01/05/22 08:10  
Date Received: 01/06/22 00:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00211		0.00200	0.000384	mg/Kg		01/06/22 13:04	01/06/22 23:33	1
Toluene	0.0357		0.00200	0.000455	mg/Kg		01/06/22 13:04	01/06/22 23:33	1
Ethylbenzene	0.0641		0.00200	0.000564	mg/Kg		01/06/22 13:04	01/06/22 23:33	1
m-Xylene & p-Xylene	0.395		0.00399	0.00101	mg/Kg		01/06/22 13:04	01/06/22 23:33	1
o-Xylene	0.109		0.00200	0.000343	mg/Kg		01/06/22 13:04	01/06/22 23:33	1
Xylenes, Total	0.504		0.00399	0.00101	mg/Kg		01/06/22 13:04	01/06/22 23:33	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	173	S1+	70 - 130				01/06/22 13:04	01/06/22 23:33	1
1,4-Difluorobenzene (Surr)	103		70 - 130				01/06/22 13:04	01/06/22 23:33	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.606		0.00399	0.00101	mg/Kg			01/07/22 08:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	527		50.0	15.0	mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	45.2	J	50.0	15.0	mg/Kg		01/06/22 13:00	01/06/22 22:39	1
Diesel Range Organics (Over C10-C28)	439 *1		50.0	15.0	mg/Kg		01/06/22 13:00	01/06/22 22:39	1
Oil Range Organics (Over C28-C36)	42.7	J	50.0	15.0	mg/Kg		01/06/22 13:00	01/06/22 22:39	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	84		70 - 130				01/06/22 13:00	01/06/22 22:39	1
o-Terphenyl	93		70 - 130				01/06/22 13:00	01/06/22 22:39	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.96		5.01	0.860	mg/Kg			01/10/22 12:41	1

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**Client Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9907-1  
 SDG: Eddy County, NM

**Client Sample ID: BH-18**  
 Date Collected: 01/05/22 08:15  
 Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9907-5**  
 Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00143	J	0.00199	0.000383	mg/Kg		01/06/22 13:04	01/06/22 23:53	1
Toluene	0.0814		0.00199	0.000454	mg/Kg		01/06/22 13:04	01/06/22 23:53	1
Ethylbenzene	0.0862		0.00199	0.000563	mg/Kg		01/06/22 13:04	01/06/22 23:53	1
m-Xylene & p-Xylene	0.557		0.00398	0.00101	mg/Kg		01/06/22 13:04	01/06/22 23:53	1
o-Xylene	0.156		0.00199	0.000343	mg/Kg		01/06/22 13:04	01/06/22 23:53	1
Xylenes, Total	0.713		0.00398	0.00101	mg/Kg		01/06/22 13:04	01/06/22 23:53	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	202	S1+	70 - 130				01/06/22 13:04	01/06/22 23:53	1
1,4-Difluorobenzene (Surr)	101		70 - 130				01/06/22 13:04	01/06/22 23:53	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.882		0.00398	0.00101	mg/Kg			01/07/22 08:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1140		50.0	15.0	mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	59.0		50.0	15.0	mg/Kg		01/06/22 13:00	01/06/22 23:00	1
Diesel Range Organics (Over C10-C28)	1000 *1		50.0	15.0	mg/Kg		01/06/22 13:00	01/06/22 23:00	1
Oil Range Organics (Over C28-C36)	80.0		50.0	15.0	mg/Kg		01/06/22 13:00	01/06/22 23:00	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	81		70 - 130				01/06/22 13:00	01/06/22 23:00	1
o-Terphenyl	85		70 - 130				01/06/22 13:00	01/06/22 23:00	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.1		4.97	0.853	mg/Kg			01/10/22 12:49	1

**Client Sample ID: BH-19**  
 Date Collected: 01/05/22 08:20  
 Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9907-6**  
 Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg		01/06/22 13:04	01/07/22 00:14	1
Toluene	0.00342		0.00198	0.000451	mg/Kg		01/06/22 13:04	01/07/22 00:14	1
Ethylbenzene	0.000679 *J		0.00198	0.000559	mg/Kg		01/06/22 13:04	01/07/22 00:14	1
m-Xylene & p-Xylene	0.00750		0.00396	0.00100	mg/Kg		01/06/22 13:04	01/07/22 00:14	1
o-Xylene	0.00251		0.00198	0.000341	mg/Kg		01/06/22 13:04	01/07/22 00:14	1
Xylenes, Total	0.0100		0.00396	0.00100	mg/Kg		01/06/22 13:04	01/07/22 00:14	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	106		70 - 130				01/06/22 13:04	01/07/22 00:14	1
1,4-Difluorobenzene (Surr)	110		70 - 130				01/06/22 13:04	01/07/22 00:14	1

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**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9907-1  
SDG: Eddy County, NM

**Client Sample ID: BH-19**  
Date Collected: 01/05/22 08:20  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9907-6**  
Matrix: Solid

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0141		0.00396	0.00100	mg/Kg			01/07/22 08:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	21.0	J	49.9	15.0	mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.0	J	49.9	15.0	mg/Kg		01/06/22 13:00	01/06/22 23:22	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	49.9	15.0	mg/Kg		01/06/22 13:00	01/06/22 23:22	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		01/06/22 13:00	01/06/22 23:22	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	76		70 - 130				01/06/22 13:00	01/06/22 23:22	1
<i>o</i> -Terphenyl	88		70 - 130				01/06/22 13:00	01/06/22 23:22	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.4		4.95	0.850	mg/Kg			01/10/22 12:57	1

**Client Sample ID: BH-20****Lab Sample ID: 880-9907-7**

Date Collected: 01/05/22 08:25  
Date Received: 01/06/22 00:00

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		01/06/22 13:04	01/07/22 00:34	1
Toluene	0.000575	J	0.00200	0.000455	mg/Kg		01/06/22 13:04	01/07/22 00:34	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		01/06/22 13:04	01/07/22 00:34	1
m-Xylene & p-Xylene	0.00185	J	0.00399	0.00101	mg/Kg		01/06/22 13:04	01/07/22 00:34	1
<i>o</i> -Xylene	0.000946	J	0.00200	0.000343	mg/Kg		01/06/22 13:04	01/07/22 00:34	1
Xylenes, Total	0.00280	J	0.00399	0.00101	mg/Kg		01/06/22 13:04	01/07/22 00:34	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	102		70 - 130				01/06/22 13:04	01/07/22 00:34	1
1,4-Difluorobenzene (Surr)	113		70 - 130				01/06/22 13:04	01/07/22 00:34	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00337	J	0.00399	0.00101	mg/Kg			01/07/22 08:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		01/06/22 13:00	01/06/22 23:43	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	50.0	15.0	mg/Kg		01/06/22 13:00	01/06/22 23:43	1

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**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9907-1  
SDG: Eddy County, NM

**Client Sample ID: BH-20**  
Date Collected: 01/05/22 08:25  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9907-7**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/06/22 13:00	01/06/22 23:43	1
<b>Surrogate</b>									
1-Chlorooctane	65	S1-	70 - 130				01/06/22 13:00	01/06/22 23:43	1
o-Terphenyl	73		70 - 130				01/06/22 13:00	01/06/22 23:43	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.54	F1	4.99	0.857	mg/Kg			01/10/22 13:05	1

**Client Sample ID: BH-21**

**Lab Sample ID: 880-9907-8**  
Matrix: Solid

Date Collected: 01/05/22 08:30  
Date Received: 01/06/22 00:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00202	0.000389	mg/Kg		01/06/22 13:04	01/07/22 00:54	1
Toluene	0.000847	J	0.00202	0.000461	mg/Kg		01/06/22 13:04	01/07/22 00:54	1
Ethylbenzene	0.000629	J	0.00202	0.000571	mg/Kg		01/06/22 13:04	01/07/22 00:54	1
m-Xylene & p-Xylene	<0.00102	U	0.00404	0.00102	mg/Kg		01/06/22 13:04	01/07/22 00:54	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		01/06/22 13:04	01/07/22 00:54	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg		01/06/22 13:04	01/07/22 00:54	1
<b>Surrogate</b>									
4-Bromofluorobenzene (Surr)	114		70 - 130				01/06/22 13:04	01/07/22 00:54	1
1,4-Difluorobenzene (Surr)	105		70 - 130				01/06/22 13:04	01/07/22 00:54	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00148	J	0.00404	0.00102	mg/Kg			01/07/22 08:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	30.7	J	49.9	15.0	mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	30.7	J	49.9	15.0	mg/Kg		01/06/22 13:00	01/07/22 00:04	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	49.9	15.0	mg/Kg		01/06/22 13:00	01/07/22 00:04	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		01/06/22 13:00	01/07/22 00:04	1
<b>Surrogate</b>									
1-Chlorooctane	87		70 - 130				01/06/22 13:00	01/07/22 00:04	1
o-Terphenyl	96		70 - 130				01/06/22 13:00	01/07/22 00:04	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.11		5.05	0.867	mg/Kg			01/10/22 13:30	1

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**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9907-1  
SDG: Eddy County, NM

**Client Sample ID: BH-22**  
Date Collected: 01/05/22 08:35  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9907-9**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		01/06/22 13:04	01/07/22 01:15	1
Toluene	0.00120	J	0.00199	0.000453	mg/Kg		01/06/22 13:04	01/07/22 01:15	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		01/06/22 13:04	01/07/22 01:15	1
m-Xylene & p-Xylene	0.00111	J	0.00398	0.00100	mg/Kg		01/06/22 13:04	01/07/22 01:15	1
o-Xylene	0.000597	J	0.00199	0.000342	mg/Kg		01/06/22 13:04	01/07/22 01:15	1
Xylenes, Total	0.00171	J	0.00398	0.00100	mg/Kg		01/06/22 13:04	01/07/22 01:15	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	115		70 - 130				01/06/22 13:04	01/07/22 01:15	1
1,4-Difluorobenzene (Surr)	108		70 - 130				01/06/22 13:04	01/07/22 01:15	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00291	J	0.00398	0.00100	mg/Kg			01/07/22 08:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	15.4	J	50.0	15.0	mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	15.4	J	50.0	15.0	mg/Kg		01/06/22 13:00	01/07/22 00:26	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	50.0	15.0	mg/Kg		01/06/22 13:00	01/07/22 00:26	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/06/22 13:00	01/07/22 00:26	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	75		70 - 130				01/06/22 13:00	01/07/22 00:26	1
o-Terphenyl	86		70 - 130				01/06/22 13:00	01/07/22 00:26	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.22		4.98	0.855	mg/Kg			01/10/22 13:38	1

**Client Sample ID: BH-23****Lab Sample ID: 880-9907-10**

Date Collected: 01/05/22 08:40  
Date Received: 01/06/22 00:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000403	J	0.00202	0.000388	mg/Kg		01/06/22 13:04	01/07/22 01:35	1
Toluene	0.000580	J	0.00202	0.000460	mg/Kg		01/06/22 13:04	01/07/22 01:35	1
Ethylbenzene	0.000591	J	0.00202	0.000570	mg/Kg		01/06/22 13:04	01/07/22 01:35	1
m-Xylene & p-Xylene	<0.00102	U	0.00403	0.00102	mg/Kg		01/06/22 13:04	01/07/22 01:35	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		01/06/22 13:04	01/07/22 01:35	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg		01/06/22 13:04	01/07/22 01:35	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	106		70 - 130				01/06/22 13:04	01/07/22 01:35	1
1,4-Difluorobenzene (Surr)	110		70 - 130				01/06/22 13:04	01/07/22 01:35	1

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## Client Sample Results

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9907-1  
SDG: Eddy County, NM

**Client Sample ID: BH-23**  
Date Collected: 01/05/22 08:40  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9907-10**  
Matrix: Solid

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00157	J	0.00403	0.00102	mg/Kg			01/07/22 08:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		01/06/22 13:00	01/07/22 00:47	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	50.0	15.0	mg/Kg		01/06/22 13:00	01/07/22 00:47	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/06/22 13:00	01/07/22 00:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				01/06/22 13:00	01/07/22 00:47	1
<i>o</i> -Terphenyl	86		70 - 130				01/06/22 13:00	01/07/22 00:47	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.9		5.02	0.862	mg/Kg			01/10/22 14:12	1

**Client Sample ID: BH-24**

Date Collected: 01/05/22 08:45  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9907-11**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00359		0.00200	0.000385	mg/Kg		01/06/22 13:04	01/07/22 02:58	1
Toluene	0.00245		0.00200	0.000456	mg/Kg		01/06/22 13:04	01/07/22 02:58	1
Ethylbenzene	0.000691	J	0.00200	0.000565	mg/Kg		01/06/22 13:04	01/07/22 02:58	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		01/06/22 13:04	01/07/22 02:58	1
<i>o</i> -Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		01/06/22 13:04	01/07/22 02:58	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		01/06/22 13:04	01/07/22 02:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				01/06/22 13:04	01/07/22 02:58	1
1,4-Difluorobenzene (Surr)	112		70 - 130				01/06/22 13:04	01/07/22 02:58	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00673		0.00400	0.00101	mg/Kg			01/07/22 08:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		01/06/22 13:00	01/06/22 21:52	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		01/06/22 13:00	01/06/22 21:52	1

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**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9907-1  
SDG: Eddy County, NM

**Client Sample ID: BH-24**  
Date Collected: 01/05/22 08:45  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9907-11**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/06/22 13:00	01/06/22 21:52	1
<b>Surrogate</b>									
1-Chlorooctane	107		70 - 130				01/06/22 13:00	01/06/22 21:52	1
o-Terphenyl	114		70 - 130				01/06/22 13:00	01/06/22 21:52	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.5		4.98	0.855	mg/Kg			01/10/22 14:20	1

**Client Sample ID: BH-25**

**Lab Sample ID: 880-9907-12**  
Matrix: Solid

Date Collected: 01/05/22 08:50  
Date Received: 01/06/22 00:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg		01/06/22 13:04	01/07/22 03:18	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		01/06/22 13:04	01/07/22 03:18	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		01/06/22 13:04	01/07/22 03:18	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		01/06/22 13:04	01/07/22 03:18	1
<b>o-Xylene</b>	<b>0.000445</b>	<b>J</b>		0.00198	0.000341	mg/Kg	01/06/22 13:04	01/07/22 03:18	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		01/06/22 13:04	01/07/22 03:18	1
<b>Surrogate</b>									
4-Bromofluorobenzene (Surr)	116		70 - 130				01/06/22 13:04	01/07/22 03:18	1
1,4-Difluorobenzene (Surr)	111		70 - 130				01/06/22 13:04	01/07/22 03:18	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00396	0.00100	mg/Kg			01/07/22 08:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.9	15.0	mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		01/06/22 13:00	01/06/22 22:13	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		01/06/22 13:00	01/06/22 22:13	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		01/06/22 13:00	01/06/22 22:13	1
<b>Surrogate</b>									
1-Chlorooctane	100		70 - 130				01/06/22 13:00	01/06/22 22:13	1
o-Terphenyl	107		70 - 130				01/06/22 13:00	01/06/22 22:13	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.8		5.04	0.865	mg/Kg			01/10/22 14:29	1

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**Client Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9907-1  
 SDG: Eddy County, NM

**Client Sample ID: BH-26**  
 Date Collected: 01/05/22 08:55  
 Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9907-13**  
 Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000382	U	0.00198	0.000382	mg/Kg		01/06/22 13:04	01/07/22 03:39	1
Toluene	<0.000452	U	0.00198	0.000452	mg/Kg		01/06/22 13:04	01/07/22 03:39	1
Ethylbenzene	<0.000561	U	0.00198	0.000561	mg/Kg		01/06/22 13:04	01/07/22 03:39	1
m-Xylene & p-Xylene	<0.00100	U	0.00397	0.00100	mg/Kg		01/06/22 13:04	01/07/22 03:39	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		01/06/22 13:04	01/07/22 03:39	1
Xylenes, Total	<0.00100	U	0.00397	0.00100	mg/Kg		01/06/22 13:04	01/07/22 03:39	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	110		70 - 130				01/06/22 13:04	01/07/22 03:39	1
1,4-Difluorobenzene (Surr)	111		70 - 130				01/06/22 13:04	01/07/22 03:39	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00397	0.00100	mg/Kg			01/07/22 08:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.9	15.0	mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		01/06/22 13:00	01/06/22 22:34	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		01/06/22 13:00	01/06/22 22:34	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		01/06/22 13:00	01/06/22 22:34	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	100		70 - 130				01/06/22 13:00	01/06/22 22:34	1
o-Terphenyl	106		70 - 130				01/06/22 13:00	01/06/22 22:34	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.2		4.97	0.853	mg/Kg			01/10/22 14:37	1

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**Surrogate Summary**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9907-1  
 SDG: Eddy County, NM

**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)
880-9907-1	BH-14	98	117
880-9907-1 MS	BH-14	102	105
880-9907-1 MSD	BH-14	90	107
880-9907-2	BH-15	113	106
880-9907-3	BH-16	201 S1+	105
880-9907-4	BH-17	173 S1+	103
880-9907-5	BH-18	202 S1+	101
880-9907-6	BH-19	106	110
880-9907-7	BH-20	102	113
880-9907-8	BH-21	114	105
880-9907-9	BH-22	115	108
880-9907-10	BH-23	106	110
880-9907-11	BH-24	106	112
880-9907-12	BH-25	116	111
880-9907-13	BH-26	110	111
LCS 880-16150/1-A	Lab Control Sample	101	96
LCSD 880-16150/2-A	Lab Control Sample Dup	105	106
MB 880-16112/5-A	Method Blank	127	130
MB 880-16150/5-A	Method Blank	115	106

**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)
880-9907-1	BH-14	82	96
880-9907-2	BH-15	69 S1-	80
880-9907-3	BH-16	72	84
880-9907-4	BH-17	84	93
880-9907-5	BH-18	81	85
880-9907-6	BH-19	76	88
880-9907-7	BH-20	65 S1-	73
880-9907-8	BH-21	87	96
880-9907-9	BH-22	75	86
880-9907-10	BH-23	77	86
880-9907-11	BH-24	107	114
880-9907-12	BH-25	100	107
880-9907-13	BH-26	100	106
LCS 880-16142/2-A	Lab Control Sample	104	107
LCSD 880-16142/3-A	Lab Control Sample Dup	110	119
MB 880-16142/1-A	Method Blank	74	85

**Surrogate Legend**

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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**Surrogate Summary**

Client: GHD Services Inc.

Job ID: 880-9907-1

Project/Site: Snapping Pumps

SDG: Eddy County, NM

**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)		
		1CO2 (70-130)	OTPH2 (70-130)	
LCS 880-16124/2-A	Lab Control Sample	100	103	
LCSD 880-16124/3-A	Lab Control Sample Dup	103	104	
MB 880-16124/1-A	Method Blank	110	114	

**Surrogate Legend**

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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## QC Sample Results

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9907-1  
SDG: Eddy County, NM

**Method: 8021B - Volatile Organic Compounds (GC)****Lab Sample ID: MB 880-16112/5-A****Matrix: Solid****Analysis Batch: 16113****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 16112**

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Benzene	<0.000385	U			0.00200	0.000385	mg/Kg		01/06/22 07:32	01/06/22 10:55	1
Toluene	<0.000456	U			0.00200	0.000456	mg/Kg		01/06/22 07:32	01/06/22 10:55	1
Ethylbenzene	<0.000565	U			0.00200	0.000565	mg/Kg		01/06/22 07:32	01/06/22 10:55	1
m-Xylene & p-Xylene	<0.00101	U			0.00400	0.00101	mg/Kg		01/06/22 07:32	01/06/22 10:55	1
o-Xylene	<0.000344	U			0.00200	0.000344	mg/Kg		01/06/22 07:32	01/06/22 10:55	1
Xylenes, Total	<0.00101	U			0.00400	0.00101	mg/Kg		01/06/22 07:32	01/06/22 10:55	1
<b>Surrogate</b>											
4-Bromofluorobenzene (Surr)	127		%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	130				70 - 130				01/06/22 07:32	01/06/22 10:55	1
									01/06/22 07:32	01/06/22 10:55	1

**Lab Sample ID: MB 880-16150/5-A****Matrix: Solid****Analysis Batch: 16113****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 16150**

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Benzene	<0.000385	U			0.00200	0.000385	mg/Kg		01/06/22 13:04	01/06/22 22:10	1
Toluene	<0.000456	U			0.00200	0.000456	mg/Kg		01/06/22 13:04	01/06/22 22:10	1
Ethylbenzene	<0.000565	U			0.00200	0.000565	mg/Kg		01/06/22 13:04	01/06/22 22:10	1
m-Xylene & p-Xylene	<0.00101	U			0.00400	0.00101	mg/Kg		01/06/22 13:04	01/06/22 22:10	1
o-Xylene	<0.000344	U			0.00200	0.000344	mg/Kg		01/06/22 13:04	01/06/22 22:10	1
Xylenes, Total	<0.00101	U			0.00400	0.00101	mg/Kg		01/06/22 13:04	01/06/22 22:10	1
<b>Surrogate</b>											
4-Bromofluorobenzene (Surr)	115		%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	106				70 - 130				01/06/22 13:04	01/06/22 22:10	1
									01/06/22 13:04	01/06/22 22:10	1

**Lab Sample ID: LCS 880-16150/1-A****Matrix: Solid****Analysis Batch: 16113****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 16150**

Analyte	Spike	LCS		LCS		D	%Rec.	Limits			
	Added	Result	Qualifier	Unit							
Benzene	0.100	0.09616		mg/Kg		96	70 - 130				
Toluene	0.100	0.08859		mg/Kg		89	70 - 130				
Ethylbenzene	0.100	0.08705		mg/Kg		87	70 - 130				
m-Xylene & p-Xylene	0.200	0.1824		mg/Kg		91	70 - 130				
o-Xylene	0.100	0.09032		mg/Kg		90	70 - 130				
<b>Surrogate</b>											
4-Bromofluorobenzene (Surr)	101		Qualifier	Limits							
1,4-Difluorobenzene (Surr)	96			70 - 130							

**Lab Sample ID: LCSD 880-16150/2-A****Matrix: Solid****Analysis Batch: 16113****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 16150**

Analyte	Spike	LCSD		LCSD		D	%Rec.	Limits	RPD
	Added	Result	Qualifier	Unit					
Benzene	0.100	0.09878		mg/Kg		99	70 - 130		3

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**QC Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9907-1  
SDG: Eddy County, NM

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

**Lab Sample ID: LCSD 880-16150/2-A** **Client Sample ID: Lab Control Sample Dup**

**Matrix: Solid**

**Analysis Batch: 16113**

Analyte		Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	RPD	Limit
		Added	Result	Qualifier							
Toluene		0.100	0.09362		mg/Kg		94	70 - 130	6	35	
Ethylbenzene		0.100	0.09167		mg/Kg		92	70 - 130	5	35	
m-Xylene & p-Xylene		0.200	0.1882		mg/Kg		94	70 - 130	3	35	
o-Xylene		0.100	0.09347		mg/Kg		93	70 - 130	3	35	

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

**Lab Sample ID: 880-9907-1 MS**

**Matrix: Solid**

**Analysis Batch: 16113**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						
Benzene	<0.000383	U	0.0996	0.08443		mg/Kg		85	70 - 130		
Toluene	0.000469	J	0.0996	0.07332		mg/Kg		73	70 - 130		
Ethylbenzene	<0.000562	U F1	0.0996	0.06304	F1	mg/Kg		63	70 - 130		
m-Xylene & p-Xylene	<0.00100	U F1	0.199	0.1303	F1	mg/Kg		65	70 - 130		
o-Xylene	<0.000342	U F1	0.0996	0.06593	F1	mg/Kg		66	70 - 130		

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

**Lab Sample ID: 880-9907-1 MSD**

**Matrix: Solid**

**Analysis Batch: 16113**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						
Benzene	<0.000383	U	0.100	0.08798		mg/Kg		88	70 - 130	4	35
Toluene	0.000469	J	0.100	0.07665		mg/Kg		76	70 - 130	4	35
Ethylbenzene	<0.000562	U F1	0.100	0.06703	F1	mg/Kg		67	70 - 130	6	35
m-Xylene & p-Xylene	<0.00100	U F1	0.200	0.1359	F1	mg/Kg		68	70 - 130	4	35
o-Xylene	<0.000342	U F1	0.100	0.06898	F1	mg/Kg		69	70 - 130	5	35

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

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

**Lab Sample ID: MB 880-16124/1-A**

**Matrix: Solid**

**Analysis Batch: 16116**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		01/06/22 11:08	01/06/22 19:45	1

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 16124**

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## QC Sample Results

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9907-1  
SDG: Eddy County, NM

**Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)****Lab Sample ID: MB 880-16124/1-A****Matrix: Solid****Analysis Batch: 16116****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 16124**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	Result	Qualifier								
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		01/06/22 11:08	01/06/22 19:45	1	
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/06/22 11:08	01/06/22 19:45	1	
<b>Surrogate</b>										
	MB		MB		Limits		Prepared		Dil Fac	
1-Chlorooctane	%Recovery	Qualifier			Limits		01/06/22 11:08	01/06/22 19:45	1	
	110				70 - 130					
o-Terphenyl			114		70 - 130		01/06/22 11:08	01/06/22 19:45	1	

**Lab Sample ID: LCS 880-16124/2-A****Matrix: Solid****Analysis Batch: 16116****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 16124**

Analyte	Spike		LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	%Rec.	
	Added									
Gasoline Range Organics (GRO)-C6-C10		1000	920.2		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)		1000	977.5		mg/Kg		98	70 - 130		
<b>Surrogate</b>										
	LCS		LCS		Limits		%Rec.		RPD	
1-Chlorooctane	%Recovery	Qualifier			Limits					
	100				70 - 130					
o-Terphenyl			103		70 - 130					

**Lab Sample ID: LCSD 880-16124/3-A****Matrix: Solid****Analysis Batch: 16116****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 16124**

Analyte	Spike		LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	%Rec.	RPD
	Added									
Gasoline Range Organics (GRO)-C6-C10		1000	927.2		mg/Kg		93	70 - 130	1	20
Diesel Range Organics (Over C10-C28)		1000	973.5		mg/Kg		97	70 - 130	0	20
<b>Surrogate</b>										
	LCSD		LCSD		Limits		RPD		Limit	
1-Chlorooctane	%Recovery	Qualifier			Limits					
	103				70 - 130					
o-Terphenyl			104		70 - 130					

**Lab Sample ID: MB 880-16142/1-A****Matrix: Solid****Analysis Batch: 16117****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 16142**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	Result	Qualifier								
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		01/06/22 12:43	01/06/22 15:37	1	
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		01/06/22 12:43	01/06/22 15:37	1	
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/06/22 12:43	01/06/22 15:37	1	
<b>Surrogate</b>										
	MB		MB		Limits		Dil Fac		Limit	
1-Chlorooctane	%Recovery	Qualifier			Limits					
	74				70 - 130					

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**QC Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9907-1  
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-16142/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 16117

Prep Batch: 16142

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl			85		70 - 130	01/06/22 12:43	01/06/22 15:37	1

Lab Sample ID: LCS 880-16142/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 16117

Prep Batch: 16142

Analyte	Spike	LCS	LCS	%Rec.				
	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	773.3		mg/Kg		77	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	895.8		mg/Kg		90	70 - 130	

Surrogate	LCSD	LCSD	%Recovery	Qualifier	Limits
1-Chlorooctane	104				70 - 130
o-Terphenyl	107				70 - 130

Lab Sample ID: LCSD 880-16142/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 16117

Prep Batch: 16142

Analyte	Spike	LCSD	LCSD	%Rec.		
	Added	Result	Qualifier	Unit	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	917.7		mg/Kg	92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1151 *1		mg/Kg	115	70 - 130

Surrogate	LCSD	LCSD	%Recovery	Qualifier	Limits
1-Chlorooctane	110				70 - 130
o-Terphenyl	119				70 - 130

**Method: 300.0 - Anions, Ion Chromatography**

Lab Sample ID: MB 880-16230/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 16332

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride			<0.858	U	5.00	0.858	mg/Kg		01/10/22 10:15		1

Lab Sample ID: LCS 880-16230/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 16332

Analyte	Spike	LCS	LCS	%Rec.				
	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	244.2		mg/Kg		98	90 - 110	

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**QC Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9907-1  
 SDG: Eddy County, NM

**Method: 300.0 - Anions, Ion Chromatography (Continued)**

**Lab Sample ID: LCSD 880-16230/3-A** **Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 16332

Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec.	RPD
			250	261.9	mg/Kg	105	Limits	Limit
Chloride							90 - 110	7

**Lab Sample ID: 880-9907-7 MS** **Client Sample ID: BH-20**  
**Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 16332

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec.
	F1	F1	250	298.6	F1	mg/Kg	117	Limits
Chloride	7.54							90 - 110

**Lab Sample ID: 880-9907-7 MSD** **Client Sample ID: BH-20**  
**Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 16332

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec.
	F1	F1	250	303.6	F1	mg/Kg	119	Limits
Chloride	7.54							90 - 110

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**QC Association Summary**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9907-1  
SDG: Eddy County, NM

**GC VOA****Prep Batch: 16112**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-16112/5-A	Method Blank	Total/NA	Solid	5035	

**Analysis Batch: 16113**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9907-1	BH-14	Total/NA	Solid	8021B	16150
880-9907-2	BH-15	Total/NA	Solid	8021B	16150
880-9907-3	BH-16	Total/NA	Solid	8021B	16150
880-9907-4	BH-17	Total/NA	Solid	8021B	16150
880-9907-5	BH-18	Total/NA	Solid	8021B	16150
880-9907-6	BH-19	Total/NA	Solid	8021B	16150
880-9907-7	BH-20	Total/NA	Solid	8021B	16150
880-9907-8	BH-21	Total/NA	Solid	8021B	16150
880-9907-9	BH-22	Total/NA	Solid	8021B	16150
880-9907-10	BH-23	Total/NA	Solid	8021B	16150
880-9907-11	BH-24	Total/NA	Solid	8021B	16150
880-9907-12	BH-25	Total/NA	Solid	8021B	16150
880-9907-13	BH-26	Total/NA	Solid	8021B	16150
MB 880-16112/5-A	Method Blank	Total/NA	Solid	8021B	16112
MB 880-16150/5-A	Method Blank	Total/NA	Solid	8021B	16150
LCS 880-16150/1-A	Lab Control Sample	Total/NA	Solid	8021B	16150
LCSD 880-16150/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	16150
880-9907-1 MS	BH-14	Total/NA	Solid	8021B	16150
880-9907-1 MSD	BH-14	Total/NA	Solid	8021B	16150

**Prep Batch: 16150**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9907-1	BH-14	Total/NA	Solid	5035	
880-9907-2	BH-15	Total/NA	Solid	5035	
880-9907-3	BH-16	Total/NA	Solid	5035	
880-9907-4	BH-17	Total/NA	Solid	5035	
880-9907-5	BH-18	Total/NA	Solid	5035	
880-9907-6	BH-19	Total/NA	Solid	5035	
880-9907-7	BH-20	Total/NA	Solid	5035	
880-9907-8	BH-21	Total/NA	Solid	5035	
880-9907-9	BH-22	Total/NA	Solid	5035	
880-9907-10	BH-23	Total/NA	Solid	5035	
880-9907-11	BH-24	Total/NA	Solid	5035	
880-9907-12	BH-25	Total/NA	Solid	5035	
880-9907-13	BH-26	Total/NA	Solid	5035	
MB 880-16150/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-16150/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-16150/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9907-1 MS	BH-14	Total/NA	Solid	5035	
880-9907-1 MSD	BH-14	Total/NA	Solid	5035	

**Analysis Batch: 16206**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9907-1	BH-14	Total/NA	Solid	Total BTEX	
880-9907-2	BH-15	Total/NA	Solid	Total BTEX	
880-9907-3	BH-16	Total/NA	Solid	Total BTEX	
880-9907-4	BH-17	Total/NA	Solid	Total BTEX	

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**QC Association Summary**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9907-1  
 SDG: Eddy County, NM

**GC VOA (Continued)****Analysis Batch: 16206 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9907-5	BH-18	Total/NA	Solid	Total BTEX	
880-9907-6	BH-19	Total/NA	Solid	Total BTEX	
880-9907-7	BH-20	Total/NA	Solid	Total BTEX	
880-9907-8	BH-21	Total/NA	Solid	Total BTEX	
880-9907-9	BH-22	Total/NA	Solid	Total BTEX	
880-9907-10	BH-23	Total/NA	Solid	Total BTEX	
880-9907-11	BH-24	Total/NA	Solid	Total BTEX	
880-9907-12	BH-25	Total/NA	Solid	Total BTEX	
880-9907-13	BH-26	Total/NA	Solid	Total BTEX	

**GC Semi VOA****Analysis Batch: 16116**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9907-11	BH-24	Total/NA	Solid	8015B NM	16124
880-9907-12	BH-25	Total/NA	Solid	8015B NM	16124
880-9907-13	BH-26	Total/NA	Solid	8015B NM	16124
MB 880-16124/1-A	Method Blank	Total/NA	Solid	8015B NM	16124
LCS 880-16124/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	16124
LCSD 880-16124/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	16124

**Analysis Batch: 16117**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9907-1	BH-14	Total/NA	Solid	8015B NM	16142
880-9907-2	BH-15	Total/NA	Solid	8015B NM	16142
880-9907-3	BH-16	Total/NA	Solid	8015B NM	16142
880-9907-4	BH-17	Total/NA	Solid	8015B NM	16142
880-9907-5	BH-18	Total/NA	Solid	8015B NM	16142
880-9907-6	BH-19	Total/NA	Solid	8015B NM	16142
880-9907-7	BH-20	Total/NA	Solid	8015B NM	16142
880-9907-8	BH-21	Total/NA	Solid	8015B NM	16142
880-9907-9	BH-22	Total/NA	Solid	8015B NM	16142
880-9907-10	BH-23	Total/NA	Solid	8015B NM	16142
MB 880-16142/1-A	Method Blank	Total/NA	Solid	8015B NM	16142
LCS 880-16142/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	16142
LCSD 880-16142/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	16142

**Prep Batch: 16124**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9907-11	BH-24	Total/NA	Solid	8015NM Prep	
880-9907-12	BH-25	Total/NA	Solid	8015NM Prep	
880-9907-13	BH-26	Total/NA	Solid	8015NM Prep	
MB 880-16124/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-16124/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-16124/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

**Prep Batch: 16142**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9907-1	BH-14	Total/NA	Solid	8015NM Prep	
880-9907-2	BH-15	Total/NA	Solid	8015NM Prep	
880-9907-3	BH-16	Total/NA	Solid	8015NM Prep	

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**QC Association Summary**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9907-1  
SDG: Eddy County, NM

**GC Semi VOA (Continued)****Prep Batch: 16142 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9907-4	BH-17	Total/NA	Solid	8015NM Prep	
880-9907-5	BH-18	Total/NA	Solid	8015NM Prep	
880-9907-6	BH-19	Total/NA	Solid	8015NM Prep	
880-9907-7	BH-20	Total/NA	Solid	8015NM Prep	
880-9907-8	BH-21	Total/NA	Solid	8015NM Prep	
880-9907-9	BH-22	Total/NA	Solid	8015NM Prep	
880-9907-10	BH-23	Total/NA	Solid	8015NM Prep	
MB 880-16142/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-16142/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-16142/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

**Analysis Batch: 16428**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9907-1	BH-14	Total/NA	Solid	8015 NM	
880-9907-2	BH-15	Total/NA	Solid	8015 NM	
880-9907-3	BH-16	Total/NA	Solid	8015 NM	
880-9907-4	BH-17	Total/NA	Solid	8015 NM	
880-9907-5	BH-18	Total/NA	Solid	8015 NM	
880-9907-6	BH-19	Total/NA	Solid	8015 NM	
880-9907-7	BH-20	Total/NA	Solid	8015 NM	
880-9907-8	BH-21	Total/NA	Solid	8015 NM	
880-9907-9	BH-22	Total/NA	Solid	8015 NM	
880-9907-10	BH-23	Total/NA	Solid	8015 NM	
880-9907-11	BH-24	Total/NA	Solid	8015 NM	
880-9907-12	BH-25	Total/NA	Solid	8015 NM	
880-9907-13	BH-26	Total/NA	Solid	8015 NM	

**HPLC/IC****Leach Batch: 16230**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9907-1	BH-14	Soluble	Solid	DI Leach	
880-9907-2	BH-15	Soluble	Solid	DI Leach	
880-9907-3	BH-16	Soluble	Solid	DI Leach	
880-9907-4	BH-17	Soluble	Solid	DI Leach	
880-9907-5	BH-18	Soluble	Solid	DI Leach	
880-9907-6	BH-19	Soluble	Solid	DI Leach	
880-9907-7	BH-20	Soluble	Solid	DI Leach	
880-9907-8	BH-21	Soluble	Solid	DI Leach	
880-9907-9	BH-22	Soluble	Solid	DI Leach	
880-9907-10	BH-23	Soluble	Solid	DI Leach	
880-9907-11	BH-24	Soluble	Solid	DI Leach	
880-9907-12	BH-25	Soluble	Solid	DI Leach	
880-9907-13	BH-26	Soluble	Solid	DI Leach	
MB 880-16230/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-16230/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-16230/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-9907-7 MS	BH-20	Soluble	Solid	DI Leach	
880-9907-7 MSD	BH-20	Soluble	Solid	DI Leach	

**QC Association Summary**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9907-1  
 SDG: Eddy County, NM

**HPLC/IC****Analysis Batch: 16332**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9907-1	BH-14	Soluble	Solid	300.0	16230
880-9907-2	BH-15	Soluble	Solid	300.0	16230
880-9907-3	BH-16	Soluble	Solid	300.0	16230
880-9907-4	BH-17	Soluble	Solid	300.0	16230
880-9907-5	BH-18	Soluble	Solid	300.0	16230
880-9907-6	BH-19	Soluble	Solid	300.0	16230
880-9907-7	BH-20	Soluble	Solid	300.0	16230
880-9907-8	BH-21	Soluble	Solid	300.0	16230
880-9907-9	BH-22	Soluble	Solid	300.0	16230
880-9907-10	BH-23	Soluble	Solid	300.0	16230
880-9907-11	BH-24	Soluble	Solid	300.0	16230
880-9907-12	BH-25	Soluble	Solid	300.0	16230
880-9907-13	BH-26	Soluble	Solid	300.0	16230
MB 880-16230/1-A	Method Blank	Soluble	Solid	300.0	16230
LCS 880-16230/2-A	Lab Control Sample	Soluble	Solid	300.0	16230
LCSD 880-16230/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	16230
880-9907-7 MS	BH-20	Soluble	Solid	300.0	16230
880-9907-7 MSD	BH-20	Soluble	Solid	300.0	16230

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**Lab Chronicle**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9907-1  
 SDG: Eddy County, NM

**Client Sample ID: BH-14**  
 Date Collected: 01/05/22 07:50  
 Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9907-1**  
 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	16150	01/06/22 13:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16113	01/06/22 22:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16206	01/07/22 08:36	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16142	01/06/22 13:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16117	01/06/22 21:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	16230	01/07/22 10:08	CH	XEN MID
Soluble	Analysis	300.0		1			16332	01/10/22 11:59	CH	XEN MID

**Client Sample ID: BH-15**  
 Date Collected: 01/05/22 08:00  
 Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9907-2**  
 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			4.98 g	5 mL	16150	01/06/22 13:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16113	01/06/22 22:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16206	01/07/22 08:36	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	16142	01/06/22 13:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16117	01/06/22 21:56	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	16230	01/07/22 10:08	CH	XEN MID
Soluble	Analysis	300.0		1			16332	01/10/22 12:24	CH	XEN MID

**Client Sample ID: BH-16**  
 Date Collected: 01/05/22 08:05  
 Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9907-3**  
 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			5.01 g	5 mL	16150	01/06/22 13:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16113	01/06/22 23:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16206	01/07/22 08:36	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16142	01/06/22 13:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16117	01/06/22 22:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	16230	01/07/22 10:08	CH	XEN MID
Soluble	Analysis	300.0		1			16332	01/10/22 12:33	CH	XEN MID

**Client Sample ID: BH-17**  
 Date Collected: 01/05/22 08:10  
 Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9907-4**  
 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			5.01 g	5 mL	16150	01/06/22 13:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16113	01/06/22 23:33	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16206	01/07/22 08:36	KL	XEN MID

Eurofins Midland

**Lab Chronicle**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9907-1  
SDG: Eddy County, NM

**Client Sample ID: BH-17**  
Date Collected: 01/05/22 08:10  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9907-4**  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16142	01/06/22 13:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16117	01/06/22 22:39	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	16230	01/07/22 10:08	CH	XEN MID
Soluble	Analysis	300.0		1			16332	01/10/22 12:41	CH	XEN MID

**Client Sample ID: BH-18**  
Date Collected: 01/05/22 08:15  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9907-5**  
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	16150	01/06/22 13:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16113	01/06/22 23:53	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16206	01/07/22 08:36	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16142	01/06/22 13:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16117	01/06/22 23:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	16230	01/07/22 10:08	CH	XEN MID
Soluble	Analysis	300.0		1			16332	01/10/22 12:49	CH	XEN MID

**Client Sample ID: BH-19**  
Date Collected: 01/05/22 08:20  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9907-6**  
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			5.05 g	5 mL	16150	01/06/22 13:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16113	01/07/22 00:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16206	01/07/22 08:36	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16142	01/06/22 13:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16117	01/06/22 23:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	16230	01/07/22 10:08	CH	XEN MID
Soluble	Analysis	300.0		1			16332	01/10/22 12:57	CH	XEN MID

**Client Sample ID: BH-20**  
Date Collected: 01/05/22 08:25  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9907-7**  
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			5.01 g	5 mL	16150	01/06/22 13:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16113	01/07/22 00:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16206	01/07/22 08:36	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16142	01/06/22 13:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16117	01/06/22 23:43	AJ	XEN MID

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**Lab Chronicle**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9907-1  
SDG: Eddy County, NM

**Client Sample ID: BH-20**  
Date Collected: 01/05/22 08:25  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9907-7**  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	16230	01/07/22 10:08	CH	XEN MID
Soluble	Analysis	300.0		1			16332	01/10/22 13:05	CH	XEN MID

**Client Sample ID: BH-21**  
Date Collected: 01/05/22 08:30  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9907-8**  
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			4.95 g	5 mL	16150	01/06/22 13:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16113	01/07/22 00:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16206	01/07/22 08:36	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16142	01/06/22 13:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16117	01/07/22 00:04	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	16230	01/07/22 10:08	CH	XEN MID
Soluble	Analysis	300.0		1			16332	01/10/22 13:30	CH	XEN MID

**Client Sample ID: BH-22**  
Date Collected: 01/05/22 08:35  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9907-9**  
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	16150	01/06/22 13:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16113	01/07/22 01:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16206	01/07/22 08:36	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16142	01/06/22 13:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16117	01/07/22 00:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	16230	01/07/22 10:08	CH	XEN MID
Soluble	Analysis	300.0		1			16332	01/10/22 13:38	CH	XEN MID

**Client Sample ID: BH-23**  
Date Collected: 01/05/22 08:40  
Date Received: 01/06/22 00:00

**Lab Sample ID: 880-9907-10**  
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	16150	01/06/22 13:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16113	01/07/22 01:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16206	01/07/22 08:36	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16142	01/06/22 13:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16117	01/07/22 00:47	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	16230	01/07/22 10:08	CH	XEN MID
Soluble	Analysis	300.0		1			16332	01/10/22 14:12	CH	XEN MID

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**Lab Chronicle**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9907-1  
 SDG: Eddy County, NM

**Client Sample ID: BH-24**  
**Date Collected: 01/05/22 08:45**  
**Date Received: 01/06/22 00:00**

**Lab Sample ID: 880-9907-11**  
**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			5.00 g	5 mL	16150	01/06/22 13:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16113	01/07/22 02:58	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16206	01/07/22 08:36	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16124	01/06/22 13:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16116	01/06/22 21:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	16230	01/07/22 10:08	CH	XEN MID
Soluble	Analysis	300.0		1			16332	01/10/22 14:20	CH	XEN MID

**Client Sample ID: BH-25**  
**Date Collected: 01/05/22 08:50**  
**Date Received: 01/06/22 00:00**

**Lab Sample ID: 880-9907-12**  
**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			5.05 g	5 mL	16150	01/06/22 13:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16113	01/07/22 03:18	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16206	01/07/22 08:36	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16124	01/06/22 13:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16116	01/06/22 22:13	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	16230	01/07/22 10:08	CH	XEN MID
Soluble	Analysis	300.0		1			16332	01/10/22 14:29	CH	XEN MID

**Client Sample ID: BH-26**  
**Date Collected: 01/05/22 08:55**  
**Date Received: 01/06/22 00:00**

**Lab Sample ID: 880-9907-13**  
**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			5.04 g	5 mL	16150	01/06/22 13:04	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16113	01/07/22 03:39	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16206	01/07/22 08:36	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	16124	01/06/22 13:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16116	01/06/22 22:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	16230	01/07/22 10:08	CH	XEN MID
Soluble	Analysis	300.0		1			16332	01/10/22 14:37	CH	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: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9907-1  
SDG: Eddy County, NM

### **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  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14

Eurofins Midland

## Method Summary

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-9907-1  
SDG: Eddy County, NM

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

Eurofins Midland

**Sample Summary**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-9907-1  
 SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
880-9907-1	BH-14	Solid	01/05/22 07:50	01/06/22 00:00	1
880-9907-2	BH-15	Solid	01/05/22 08:00	01/06/22 00:00	2
880-9907-3	BH-16	Solid	01/05/22 08:05	01/06/22 00:00	3
880-9907-4	BH-17	Solid	01/05/22 08:10	01/06/22 00:00	4
880-9907-5	BH-18	Solid	01/05/22 08:15	01/06/22 00:00	5
880-9907-6	BH-19	Solid	01/05/22 08:20	01/06/22 00:00	6
880-9907-7	BH-20	Solid	01/05/22 08:25	01/06/22 00:00	7
880-9907-8	BH-21	Solid	01/05/22 08:30	01/06/22 00:00	8
880-9907-9	BH-22	Solid	01/05/22 08:35	01/06/22 00:00	9
880-9907-10	BH-23	Solid	01/05/22 08:40	01/06/22 00:00	10
880-9907-11	BH-24	Solid	01/05/22 08:45	01/06/22 00:00	11
880-9907-12	BH-25	Solid	01/05/22 08:50	01/06/22 00:00	12
880-9907-13	BH-26	Solid	01/05/22 08:55	01/06/22 00:00	13

**CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST**

880-9907 Chain of Custody  
Odessa, Texas 79765

Pg 2 of 2  
9907

12600 West I-20 East  
Odessa, Texas 79765

Phone: 432-563-4100  
Fax: 432-563-1713

### CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager Becky Haskell @ EHD.com  
Company Name EHD  
Company Address \_\_\_\_\_  
City/State/Zip \_\_\_\_\_

Telephone No \_\_\_\_\_  
Sampler Signature BB  
(lab use only) \_\_\_\_\_  
Order #. \_\_\_\_\_

Fax No \_\_\_\_\_  
e-mail "Becky", "HLS"  
PO #: \_\_\_\_\_  
Project Loc. \_\_\_\_\_

Report Format:  Standard  TRRP  NPDES

Rush 3-day

(lab use only)

Order #. \_\_\_\_\_

Beginning Depth \_\_\_\_\_  
Ending Depth \_\_\_\_\_  
Date Sampled \_\_\_\_\_  
Time Sampled \_\_\_\_\_  
Field Filtered \_\_\_\_\_  
Total # of Containers \_\_\_\_\_  
Ice \_\_\_\_\_  
HNO<sub>3</sub> \_\_\_\_\_  
HCl \_\_\_\_\_  
H<sub>2</sub>SO<sub>4</sub> \_\_\_\_\_  
NaOH \_\_\_\_\_  
Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> \_\_\_\_\_  
None \_\_\_\_\_  
Other (Specify) \_\_\_\_\_  
DW=Drinking Water SL=Sludge  
GW=Groundwater S=Soil/Solid  
NP=Non-Potable Specify Other \_\_\_\_\_  
Preservation & # of Containers \_\_\_\_\_  
Matrix \_\_\_\_\_

		Analyze For	
		TCLP	TOTAL
TPH	418 1	8015M	8015B
TPH	TX 1005	TX 1006	
Cations (Ca Mg Na K)			
Anions (Cl SO <sub>4</sub> Alkalinity)			
SAR / ESP / CEC			
Metals As Ag Ba Cd Cr Pb Hg Se			
Volatiles			
Semivolatiles			
BTEX 8021B/5030 or BTEX 8260			
RCI			
N O R M			
<i>Chloride 300</i>			
RUSH TAT (Pre-Schedule) 24 48 72 hrs			
Standard TAT			

Special Instructions.

Received by OCD: 4/5/2022 11:59:10 AM

Reinquished by	<i>BB</i>	Date	1/5/22	Time	1126	Received by	<i>BB</i>	Date	1/5/22	Time	1126	Received by	<i>BB</i>
Reinstituted by	<i>BB</i>	Date	1/5/22	Time	1130	Received by	<i>BB</i>	Date	1/5/22	Time	1140	Received by ELOT	<i>BB</i>
Released by	<i>BB</i>	Date		Time		Received by ELOT		Date		Time			

Laboratory Comments.	
Sample Containers Inact?	Y
VOCs Free of Headspace?	Y
Labels on container(s)	Y
Custody seals on container(s)	Y
Sample Hand Delivered	Y
by Sampler/Client Rep?	Y
by Courier?	N
UPS	Y
DHL	Y
FedEx	N
Lone Star	N
Temperature Upon Receipt	As Read
33	34°C

## Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 880-9907-1  
SDG Number: Eddy County, NM**Login Number:** 9907**List Source:** Eurofins Midland**List Number:** 1**Creator:** Teel, Brianna

Question	Answer	Comment	
The cooler's custody seal, if present, is intact.	N/A		1
Sample custody seals, if present, are intact.	N/A		2
The cooler or samples do not appear to have been compromised or tampered with.	True		3
Samples were received on ice.	True		4
Cooler Temperature is acceptable.	True		5
Cooler Temperature is recorded.	True		6
COC is present.	True		7
COC is filled out in ink and legible.	True		8
COC is filled out with all pertinent information.	True		9
Is the Field Sampler's name present on COC?	True		10
There are no discrepancies between the containers received and the COC.	True		11
Samples are received within Holding Time (excluding tests with immediate HTs)	True		12
Sample containers have legible labels.	True		13
Containers are not broken or leaking.	True		14
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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Environment Testing  
America



## ANALYTICAL REPORT

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

Laboratory Job ID: 880-10347-1

Laboratory Sample Delivery Group: Eddy County, NM  
Client Project/Site: Snapping Pumps

For:  
GHD Services Inc.  
2135 South Loop 250 West  
Midland, Texas 79703

Attn: Becky Haskell

*Debbie Simmons*

Authorized for release by:  
1/24/2022 5:14:33 PM

Debbie Simmons, Project Manager  
(832)986-6768  
[debbie.simmons@eurofinset.com](mailto:debbie.simmons@eurofinset.com)

### LINKS

Review your project  
results through

**TotalAccess**

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Ask  
The  
Expert

Visit us at:

[www.eurofinsus.com/Env](http://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.

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Laboratory Job ID: 880-10347-1  
SDG: Eddy County, NM

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## Definitions/Glossary

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10347-1  
SDG: Eddy County, NM

### Qualifiers

#### GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

#### HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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.
□	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)

**Definitions/Glossary**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10347-1  
SDG: Eddy County, NM

**Glossary (Continued)**

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

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

Eurofins Midland

**Case Narrative**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-10347-1  
 SDG: Eddy County, NM

**Job ID: 880-10347-1****Laboratory: Eurofins Midland****Narrative****Job Narrative  
880-10347-1****Receipt**

The samples were received on 1/19/2022 1:15 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 time was 2.2°C

**GC VOA**

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-17238 and analytical batch 880-17324 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.

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

**GC Semi VOA**

Method 8015MOD\_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-17332 and analytical batch 880-17331 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28)

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-17332 and analytical batch 880-17331 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.

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

**HPLC/IC**

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-17255 and 880-17255 and analytical batch 880-17322 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

**Client Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-10347-1  
 SDG: Eddy County, NM

**Client Sample ID: SW-7****Lab Sample ID: 880-10347-1**

Date Collected: 01/17/22 11:50  
 Date Received: 01/19/22 13:15

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg		01/19/22 13:45	01/21/22 06:53	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		01/19/22 13:45	01/21/22 06:53	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		01/19/22 13:45	01/21/22 06:53	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		01/19/22 13:45	01/21/22 06:53	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		01/19/22 13:45	01/21/22 06:53	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		01/19/22 13:45	01/21/22 06:53	1
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	121			70 - 130			01/19/22 13:45	01/21/22 06:53	1
1,4-Difluorobenzene (Surr)	89			70 - 130			01/19/22 13:45	01/21/22 06:53	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00396	0.00100	mg/Kg			01/24/22 16:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	22.0	J	49.9	15.0	mg/Kg			01/24/22 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline Range Organics (GRO)-C6-C10</b>	22.0	J F1	49.9	15.0	mg/Kg		01/20/22 08:47	01/20/22 20:46	1
Diesel Range Organics (Over C10-C28)	<15.0	U F1 *1	49.9	15.0	mg/Kg		01/20/22 08:47	01/20/22 20:46	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		01/20/22 08:47	01/20/22 20:46	1
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	88			70 - 130			01/20/22 08:47	01/20/22 20:46	1
o-Terphenyl	89			70 - 130			01/20/22 08:47	01/20/22 20:46	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.26	F1	4.95	0.850	mg/Kg			01/19/22 19:20	1

**Client Sample ID: SW-8****Lab Sample ID: 880-10347-2**

Date Collected: 01/17/22 11:55  
 Date Received: 01/19/22 13:15

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U	0.00202	0.000388	mg/Kg		01/19/22 13:45	01/21/22 07:13	1
Toluene	<0.000460	U	0.00202	0.000460	mg/Kg		01/19/22 13:45	01/21/22 07:13	1
Ethylbenzene	<0.000570	U	0.00202	0.000570	mg/Kg		01/19/22 13:45	01/21/22 07:13	1
m-Xylene & p-Xylene	<0.00102	U	0.00403	0.00102	mg/Kg		01/19/22 13:45	01/21/22 07:13	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		01/19/22 13:45	01/21/22 07:13	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg		01/19/22 13:45	01/21/22 07:13	1
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	132	S1+		70 - 130			01/19/22 13:45	01/21/22 07:13	1
1,4-Difluorobenzene (Surr)	104			70 - 130			01/19/22 13:45	01/21/22 07:13	1

Eurofins Midland

**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10347-1  
SDG: Eddy County, NM

**Client Sample ID: SW-8**

Date Collected: 01/17/22 11:55  
Date Received: 01/19/22 13:15

**Lab Sample ID: 880-10347-2**

Matrix: Solid

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00102	U	0.00403	0.00102	mg/Kg			01/24/22 16:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	19.7	J	49.9	15.0	mg/Kg			01/24/22 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	19.7	J	49.9	15.0	mg/Kg		01/20/22 08:47	01/20/22 21:47	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	49.9	15.0	mg/Kg		01/20/22 08:47	01/20/22 21:47	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		01/20/22 08:47	01/20/22 21:47	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	89		70 - 130				01/20/22 08:47	01/20/22 21:47	1
<i>o</i> -Terphenyl	89		70 - 130				01/20/22 08:47	01/20/22 21:47	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.50		4.95	0.850	mg/Kg			01/19/22 19:43	1

**Client Sample ID: SW-26**

Date Collected: 01/17/22 12:55  
Date Received: 01/19/22 13:15

**Lab Sample ID: 880-10347-3**

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U F1	0.00199	0.000383	mg/Kg		01/20/22 07:30	01/20/22 11:20	1
Toluene	<0.000454	U F1	0.00199	0.000454	mg/Kg		01/20/22 07:30	01/20/22 11:20	1
Ethylbenzene	<0.000563	U F2 F1	0.00199	0.000563	mg/Kg		01/20/22 07:30	01/20/22 11:20	1
m-Xylene & p-Xylene	<0.00101	U F1	0.00398	0.00101	mg/Kg		01/20/22 07:30	01/20/22 11:20	1
<i>o</i> -Xylene	<0.000343	U F1	0.00199	0.000343	mg/Kg		01/20/22 07:30	01/20/22 11:20	1
Xylenes, Total	<0.00101	U F1	0.00398	0.00101	mg/Kg		01/20/22 07:30	01/20/22 11:20	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	115		70 - 130				01/20/22 07:30	01/20/22 11:20	1
1,4-Difluorobenzene (Surr)	96		70 - 130				01/20/22 07:30	01/20/22 11:20	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg			01/20/22 15:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	23.3	J	50.0	15.0	mg/Kg			01/24/22 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.3	J	50.0	15.0	mg/Kg		01/20/22 08:47	01/20/22 22:08	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	50.0	15.0	mg/Kg		01/20/22 08:47	01/20/22 22:08	1

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**Client Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-10347-1  
 SDG: Eddy County, NM

**Client Sample ID: SW-26**  
 Date Collected: 01/17/22 12:55  
 Date Received: 01/19/22 13:15

**Lab Sample ID: 880-10347-3**  
 Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/20/22 08:47	01/20/22 22:08	1
<b>Surrogate</b>									
1-Chlorooctane	104		70 - 130				01/20/22 08:47	01/20/22 22:08	1
o-Terphenyl	104		70 - 130				01/20/22 08:47	01/20/22 22:08	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.69		5.04	0.865	mg/Kg			01/19/22 19:50	1

**Client Sample ID: SW-27**

**Lab Sample ID: 880-10347-4**  
 Matrix: Solid

Date Collected: 01/17/22 13:00  
 Date Received: 01/19/22 13:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg		01/20/22 07:30	01/20/22 11:41	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		01/20/22 07:30	01/20/22 11:41	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		01/20/22 07:30	01/20/22 11:41	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		01/20/22 07:30	01/20/22 11:41	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		01/20/22 07:30	01/20/22 11:41	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		01/20/22 07:30	01/20/22 11:41	1
<b>Surrogate</b>									
4-Bromofluorobenzene (Surr)	110		70 - 130				01/20/22 07:30	01/20/22 11:41	1
1,4-Difluorobenzene (Surr)	102		70 - 130				01/20/22 07:30	01/20/22 11:41	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00396	0.00100	mg/Kg			01/20/22 15:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18.7	J	50.0	15.0	mg/Kg			01/24/22 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	18.7	J	50.0	15.0	mg/Kg		01/20/22 08:47	01/20/22 22:28	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	50.0	15.0	mg/Kg		01/20/22 08:47	01/20/22 22:28	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/20/22 08:47	01/20/22 22:28	1
<b>Surrogate</b>									
1-Chlorooctane	88		70 - 130				01/20/22 08:47	01/20/22 22:28	1
o-Terphenyl	91		70 - 130				01/20/22 08:47	01/20/22 22:28	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.99		4.97	0.853	mg/Kg			01/19/22 19:58	1

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**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10347-1  
SDG: Eddy County, NM

**Client Sample ID: BH-27**  
Date Collected: 01/17/22 12:00  
Date Received: 01/19/22 13:15

**Lab Sample ID: 880-10347-5**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		01/20/22 07:30	01/20/22 12:01	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		01/20/22 07:30	01/20/22 12:01	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		01/20/22 07:30	01/20/22 12:01	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		01/20/22 07:30	01/20/22 12:01	1
<b>o-Xylene</b>	<b>0.000617</b>	<b>J</b>	0.00199	0.000343	mg/Kg		01/20/22 07:30	01/20/22 12:01	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		01/20/22 07:30	01/20/22 12:01	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	117		70 - 130				01/20/22 07:30	01/20/22 12:01	1
1,4-Difluorobenzene (Surr)	75		70 - 130				01/20/22 07:30	01/20/22 12:01	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg			01/20/22 15:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	21.3	J	49.9	15.0	mg/Kg			01/24/22 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline Range Organics (GRO)-C6-C10</b>	<b>21.3</b>	<b>J</b>	49.9	15.0	mg/Kg		01/20/22 08:47	01/20/22 22:49	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	49.9	15.0	mg/Kg		01/20/22 08:47	01/20/22 22:49	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		01/20/22 08:47	01/20/22 22:49	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	88		70 - 130				01/20/22 08:47	01/20/22 22:49	1
o-Terphenyl	90		70 - 130				01/20/22 08:47	01/20/22 22:49	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.88		5.01	0.860	mg/Kg			01/19/22 20:05	1

**Client Sample ID: BH-28**  
Date Collected: 01/17/22 12:05  
Date Received: 01/19/22 13:15

**Lab Sample ID: 880-10347-6**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00474		0.00202	0.000388	mg/Kg		01/20/22 07:30	01/20/22 12:22	1
Toluene	0.00346		0.00202	0.000460	mg/Kg		01/20/22 07:30	01/20/22 12:22	1
Ethylbenzene	0.000648	J	0.00202	0.000570	mg/Kg		01/20/22 07:30	01/20/22 12:22	1
m-Xylene & p-Xylene	<0.00102	U	0.00403	0.00102	mg/Kg		01/20/22 07:30	01/20/22 12:22	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		01/20/22 07:30	01/20/22 12:22	1
Xylenes, Total	<0.00102	U	0.00403	0.00102	mg/Kg		01/20/22 07:30	01/20/22 12:22	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	121		70 - 130				01/20/22 07:30	01/20/22 12:22	1
1,4-Difluorobenzene (Surr)	107		70 - 130				01/20/22 07:30	01/20/22 12:22	1

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**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10347-1  
SDG: Eddy County, NM

**Client Sample ID: BH-28**  
Date Collected: 01/17/22 12:05  
Date Received: 01/19/22 13:15

**Lab Sample ID: 880-10347-6**  
Matrix: Solid

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00885		0.00403	0.00102	mg/Kg			01/20/22 15:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	23.7	J	50.0	15.0	mg/Kg			01/24/22 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.7	J	50.0	15.0	mg/Kg		01/20/22 08:47	01/20/22 23:09	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	50.0	15.0	mg/Kg		01/20/22 08:47	01/20/22 23:09	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/20/22 08:47	01/20/22 23:09	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	110		70 - 130				01/20/22 08:47	01/20/22 23:09	1
<i>o</i> -Terphenyl	114		70 - 130				01/20/22 08:47	01/20/22 23:09	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3.37	J	4.99	0.857	mg/Kg			01/19/22 20:28	1

**Client Sample ID: BH-29**

Date Collected: 01/17/22 12:15  
Date Received: 01/19/22 13:15

**Lab Sample ID: 880-10347-7**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		01/20/22 07:30	01/20/22 12:42	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		01/20/22 07:30	01/20/22 12:42	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		01/20/22 07:30	01/20/22 12:42	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		01/20/22 07:30	01/20/22 12:42	1
<i>o</i> -Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		01/20/22 07:30	01/20/22 12:42	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		01/20/22 07:30	01/20/22 12:42	1

**Surrogate**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	01/20/22 07:30	01/20/22 12:42	1
1,4-Difluorobenzene (Surr)	77		70 - 130	01/20/22 07:30	01/20/22 12:42	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00398	0.00100	mg/Kg			01/20/22 15:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	16.1	J	49.9	15.0	mg/Kg			01/24/22 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	16.1	J	49.9	15.0	mg/Kg		01/20/22 08:47	01/20/22 23:29	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	49.9	15.0	mg/Kg		01/20/22 08:47	01/20/22 23:29	1

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**Client Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-10347-1  
 SDG: Eddy County, NM

**Client Sample ID: BH-29**  
 Date Collected: 01/17/22 12:15  
 Date Received: 01/19/22 13:15

**Lab Sample ID: 880-10347-7**  
 Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		01/20/22 08:47	01/20/22 23:29	1
<b>Surrogate</b>									
1-Chlorooctane	88		70 - 130				01/20/22 08:47	01/20/22 23:29	1
o-Terphenyl	89		70 - 130				01/20/22 08:47	01/20/22 23:29	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.71		5.00	0.858	mg/Kg			01/19/22 20:35	1

**Client Sample ID: BH-30**

**Lab Sample ID: 880-10347-8**  
 Matrix: Solid

Date Collected: 01/17/22 12:20

Date Received: 01/19/22 13:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		01/20/22 07:30	01/20/22 13:02	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		01/20/22 07:30	01/20/22 13:02	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		01/20/22 07:30	01/20/22 13:02	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		01/20/22 07:30	01/20/22 13:02	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		01/20/22 07:30	01/20/22 13:02	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		01/20/22 07:30	01/20/22 13:02	1
<b>Surrogate</b>									
4-Bromofluorobenzene (Surr)	120		70 - 130				01/20/22 07:30	01/20/22 13:02	1
1,4-Difluorobenzene (Surr)	103		70 - 130				01/20/22 07:30	01/20/22 13:02	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg			01/20/22 15:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	22.1	J	50.0	15.0	mg/Kg			01/24/22 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	22.1	J	50.0	15.0	mg/Kg		01/20/22 08:47	01/20/22 23:50	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	50.0	15.0	mg/Kg		01/20/22 08:47	01/20/22 23:50	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/20/22 08:47	01/20/22 23:50	1
<b>Surrogate</b>									
1-Chlorooctane	100		70 - 130				01/20/22 08:47	01/20/22 23:50	1
o-Terphenyl	98		70 - 130				01/20/22 08:47	01/20/22 23:50	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.2		4.98	0.855	mg/Kg			01/20/22 12:43	1

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**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10347-1  
SDG: Eddy County, NM

**Client Sample ID: BH-31**  
Date Collected: 01/17/22 12:25  
Date Received: 01/19/22 13:15

**Lab Sample ID: 880-10347-9**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000386	U	0.00200	0.000386	mg/Kg		01/20/22 07:30	01/20/22 13:23	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		01/20/22 07:30	01/20/22 13:23	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		01/20/22 07:30	01/20/22 13:23	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		01/20/22 07:30	01/20/22 13:23	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		01/20/22 07:30	01/20/22 13:23	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		01/20/22 07:30	01/20/22 13:23	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	114		70 - 130				01/20/22 07:30	01/20/22 13:23	1
1,4-Difluorobenzene (Surr)	96		70 - 130				01/20/22 07:30	01/20/22 13:23	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00401	0.00101	mg/Kg			01/20/22 15:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	23.2	J	50.0	15.0	mg/Kg			01/24/22 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline Range Organics (GRO)-C6-C10</b>	<b>23.2</b>	<b>J</b>	50.0	15.0	mg/Kg		01/20/22 08:47	01/21/22 00:10	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	50.0	15.0	mg/Kg		01/20/22 08:47	01/21/22 00:10	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/20/22 08:47	01/21/22 00:10	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	91		70 - 130				01/20/22 08:47	01/21/22 00:10	1
o-Terphenyl	91		70 - 130				01/20/22 08:47	01/21/22 00:10	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.6		5.01	0.860	mg/Kg			01/20/22 12:52	1

**Client Sample ID: BH-32**

Date Collected: 01/17/22 12:30  
Date Received: 01/19/22 13:15

**Lab Sample ID: 880-10347-10**

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000824	J	0.00198	0.000382	mg/Kg		01/20/22 07:30	01/20/22 15:47	1
Toluene	0.000935	J	0.00198	0.000452	mg/Kg		01/20/22 07:30	01/20/22 15:47	1
Ethylbenzene	<0.000561	U	0.00198	0.000561	mg/Kg		01/20/22 07:30	01/20/22 15:47	1
m-Xylene & p-Xylene	<0.00100	U	0.00397	0.00100	mg/Kg		01/20/22 07:30	01/20/22 15:47	1
o-Xylene	0.000947	J	0.00198	0.000341	mg/Kg		01/20/22 07:30	01/20/22 15:47	1
Xylenes, Total	<0.00100	U	0.00397	0.00100	mg/Kg		01/20/22 07:30	01/20/22 15:47	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	95		70 - 130				01/20/22 07:30	01/20/22 15:47	1
1,4-Difluorobenzene (Surr)	105		70 - 130				01/20/22 07:30	01/20/22 15:47	1

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**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10347-1  
SDG: Eddy County, NM

**Client Sample ID: BH-32**  
Date Collected: 01/17/22 12:30  
Date Received: 01/19/22 13:15

**Lab Sample ID: 880-10347-10**  
Matrix: Solid

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00271	J	0.00397	0.00100	mg/Kg			01/24/22 16:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	15.9	J	49.9	15.0	mg/Kg			01/24/22 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	15.9	J	49.9	15.0	mg/Kg		01/20/22 08:47	01/21/22 00:30	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	49.9	15.0	mg/Kg		01/20/22 08:47	01/21/22 00:30	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		01/20/22 08:47	01/21/22 00:30	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	106		70 - 130				01/20/22 08:47	01/21/22 00:30	1
<i>o</i> -Terphenyl	104		70 - 130				01/20/22 08:47	01/21/22 00:30	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.66		4.99	0.857	mg/Kg			01/20/22 13:00	1

**Client Sample ID: BH-33**

Date Collected: 01/17/22 12:35  
Date Received: 01/19/22 13:15

**Lab Sample ID: 880-10347-11**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg		01/20/22 07:30	01/20/22 16:07	1
Toluene	0.00182	J	0.00200	0.000455	mg/Kg		01/20/22 07:30	01/20/22 16:07	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		01/20/22 07:30	01/20/22 16:07	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		01/20/22 07:30	01/20/22 16:07	1
<i>o</i> -Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		01/20/22 07:30	01/20/22 16:07	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		01/20/22 07:30	01/20/22 16:07	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	113		70 - 130				01/20/22 07:30	01/20/22 16:07	1
1,4-Difluorobenzene (Surr)	94		70 - 130				01/20/22 07:30	01/20/22 16:07	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00182	J	0.00399	0.00101	mg/Kg			01/24/22 16:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	23.1	J	50.0	15.0	mg/Kg			01/24/22 16:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.1	J	50.0	15.0	mg/Kg		01/20/22 08:47	01/21/22 01:12	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	50.0	15.0	mg/Kg		01/20/22 08:47	01/21/22 01:12	1

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**Client Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-10347-1  
 SDG: Eddy County, NM

**Client Sample ID: BH-33**  
 Date Collected: 01/17/22 12:35  
 Date Received: 01/19/22 13:15

**Lab Sample ID: 880-10347-11**  
 Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/20/22 08:47	01/21/22 01:12	1
<b>Surrogate</b>									
1-Chlorooctane	88		70 - 130				01/20/22 08:47	01/21/22 01:12	1
<i>o</i> -Terphenyl	87		70 - 130				01/20/22 08:47	01/21/22 01:12	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.0		4.95	0.850	mg/Kg			01/20/22 13:08	1

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**Surrogate Summary**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-10347-1  
 SDG: Eddy County, NM

**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)
880-10347-1	SW-7	121	89
880-10347-2	SW-8	132 S1+	104
880-10347-3	SW-26	115	96
880-10347-3 MS	SW-26	73	74
880-10347-3 MSD	SW-26	108	99
880-10347-4	SW-27	110	102
880-10347-5	BH-27	117	75
880-10347-6	BH-28	121	107
880-10347-7	BH-29	124	77
880-10347-8	BH-30	120	103
880-10347-9	BH-31	114	96
880-10347-10	BH-32	95	105
880-10347-11	BH-33	113	94
LCS 880-17218/1-A	Lab Control Sample	112	94
LCS 880-17238/1-A	Lab Control Sample	101	101
LCSD 880-17218/2-A	Lab Control Sample Dup	110	98
LCSD 880-17238/2-A	Lab Control Sample Dup	99	95
MB 880-17131/5-A	Method Blank	123	97
MB 880-17218/5-A	Method Blank	114	97
MB 880-17238/5-A	Method Blank	100	101

**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)
880-10347-1	SW-7	88	89
880-10347-1 MS	SW-7	103	88
880-10347-1 MSD	SW-7	109	90
880-10347-2	SW-8	89	89
880-10347-3	SW-26	104	104
880-10347-4	SW-27	88	91
880-10347-5	BH-27	88	90
880-10347-6	BH-28	110	114
880-10347-7	BH-29	88	89
880-10347-8	BH-30	100	98
880-10347-9	BH-31	91	91
880-10347-10	BH-32	106	104
880-10347-11	BH-33	88	87

**Surrogate Legend**

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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**Surrogate Summary**

Client: GHD Services Inc.

Job ID: 880-10347-1

Project/Site: Snapping Pumps

SDG: Eddy County, NM

**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)		
		1CO2 (70-130)	OTPH2 (70-130)	
LCS 880-17332/2-A	Lab Control Sample	110	102	
LCSD 880-17332/3-A	Lab Control Sample Dup	124	120	
MB 880-17332/1-A	Method Blank	94	97	

**Surrogate Legend**

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

1

2

3

4

5

6

7

8

9

10

11

12

13

14

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**QC Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-10347-1  
 SDG: Eddy County, NM

**Method: 8021B - Volatile Organic Compounds (GC)****Lab Sample ID: MB 880-17131/5-A****Matrix: Solid****Analysis Batch: 17325****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 17131**

Analyte	MB		MB		D	Prepared	Analyzed	Dil Fac
	Result	Qualifier	RL	MDL				
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg	01/19/22 07:30	01/20/22 11:10	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg	01/19/22 07:30	01/20/22 11:10	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg	01/19/22 07:30	01/20/22 11:10	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg	01/19/22 07:30	01/20/22 11:10	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg	01/19/22 07:30	01/20/22 11:10	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg	01/19/22 07:30	01/20/22 11:10	1
Surrogate	MB		MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier	Limits					
4-Bromofluorobenzene (Surr)	123		70 - 130			01/19/22 07:30	01/20/22 11:10	1
1,4-Difluorobenzene (Surr)	97		70 - 130			01/19/22 07:30	01/20/22 11:10	1

**Lab Sample ID: MB 880-17218/5-A****Matrix: Solid****Analysis Batch: 17325****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 17218**

Analyte	MB		MB		D	Prepared	Analyzed	Dil Fac
	Result	Qualifier	RL	MDL				
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg	01/19/22 13:45	01/20/22 22:47	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg	01/19/22 13:45	01/20/22 22:47	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg	01/19/22 13:45	01/20/22 22:47	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg	01/19/22 13:45	01/20/22 22:47	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg	01/19/22 13:45	01/20/22 22:47	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg	01/19/22 13:45	01/20/22 22:47	1
Surrogate	MB		MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier	Limits					
4-Bromofluorobenzene (Surr)	114		70 - 130			01/19/22 13:45	01/20/22 22:47	1
1,4-Difluorobenzene (Surr)	97		70 - 130			01/19/22 13:45	01/20/22 22:47	1

**Lab Sample ID: LCS 880-17218/1-A****Matrix: Solid****Analysis Batch: 17325****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 17218**

Analyte	Spike		LCS		D	%Rec.	
	Added	Result	Qualifer	Unit		%Rec	Limits
Benzene	0.100	0.08639		mg/Kg	86	70 - 130	
Toluene	0.100	0.09391		mg/Kg	94	70 - 130	
Ethylbenzene	0.100	0.1005		mg/Kg	101	70 - 130	
m-Xylene & p-Xylene	0.200	0.1949		mg/Kg	97	70 - 130	
o-Xylene	0.100	0.09578		mg/Kg	96	70 - 130	
Surrogate	LCS		LCS		Limits		
	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	112		70 - 130				
1,4-Difluorobenzene (Surr)	94		70 - 130				

**Lab Sample ID: LCSD 880-17218/2-A****Matrix: Solid****Analysis Batch: 17325****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 17218**

Analyte	Spike		LCSD		D	%Rec.	
	Added	Result	Qualifer	Unit		%Rec	RPD
Benzene	0.100	0.08994		mg/Kg	90	70 - 130	4

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## QC Sample Results

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10347-1  
SDG: Eddy County, NM

**Method: 8021B - Volatile Organic Compounds (GC) (Continued)****Lab Sample ID: LCSD 880-17218/2-A****Matrix: Solid****Analysis Batch: 17325****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 17218**

Analyte		Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	RPD	Limit
		Added	Result	Qualifier							
Toluene		0.100	0.1007		mg/Kg	101	70 - 130		7		35
Ethylbenzene		0.100	0.1039		mg/Kg	104	70 - 130		3		35
m-Xylene & p-Xylene		0.200	0.2066		mg/Kg	103	70 - 130		6		35
o-Xylene		0.100	0.1011		mg/Kg	101	70 - 130		5		35

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

**Lab Sample ID: MB 880-17238/5-A****Matrix: Solid****Analysis Batch: 17324****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 17238**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		01/20/22 07:30	01/20/22 10:59	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		01/20/22 07:30	01/20/22 10:59	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		01/20/22 07:30	01/20/22 10:59	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		01/20/22 07:30	01/20/22 10:59	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		01/20/22 07:30	01/20/22 10:59	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		01/20/22 07:30	01/20/22 10:59	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	100		70 - 130	01/20/22 07:30	01/20/22 10:59	1
1,4-Difluorobenzene (Surr)	101		70 - 130	01/20/22 07:30	01/20/22 10:59	1

**Lab Sample ID: LCS 880-17238/1-A****Matrix: Solid****Analysis Batch: 17324****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 17238**

Analyte		Spike	LCS	LCS	Unit	D	%Rec	Limits	
		Added	Result	Qualifier					
Benzene		0.100	0.09261		mg/Kg		93	70 - 130	
Toluene		0.100	0.08521		mg/Kg		85	70 - 130	
Ethylbenzene		0.100	0.08395		mg/Kg		84	70 - 130	
m-Xylene & p-Xylene		0.200	0.1688		mg/Kg		84	70 - 130	
o-Xylene		0.100	0.08491		mg/Kg		85	70 - 130	

Surrogate	LCS	LCS	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	101		70 - 130	01/20/22 07:30	01/20/22 10:59	1
1,4-Difluorobenzene (Surr)	101		70 - 130	01/20/22 07:30	01/20/22 10:59	1

**Lab Sample ID: LCSD 880-17238/2-A****Matrix: Solid****Analysis Batch: 17324****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 17238**

Analyte		Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	RPD	Limit
		Added	Result	Qualifier							
Benzene		0.100	0.09272		mg/Kg		93	70 - 130	0		35
Toluene		0.100	0.08795		mg/Kg		88	70 - 130	3		35
Ethylbenzene		0.100	0.08263		mg/Kg		83	70 - 130	2		35

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**QC Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10347-1  
SDG: Eddy County, NM

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

**Lab Sample ID: LCSD 880-17238/2-A** **Client Sample ID: Lab Control Sample Dup**

**Matrix: Solid**

**Analysis Batch: 17324**

Analyte		Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD	Limit
		Added	Result	Qualifier							
m-Xylene & p-Xylene		0.200	0.1790		mg/Kg		90	70 - 130	6		35
o-Xylene		0.100	0.08873		mg/Kg		89	70 - 130	4		35

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

**Lab Sample ID: 880-10347-3 MS**

**Matrix: Solid**

**Analysis Batch: 17324**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Benzene	<0.000383	U F1	0.0994	0.08493		mg/Kg		85	70 - 130		
Toluene	<0.000454	U F1	0.0994	0.06737	F1	mg/Kg		68	70 - 130		
Ethylbenzene	<0.000563	U F2 F1	0.0994	0.03949	F1	mg/Kg		40	70 - 130		
m-Xylene & p-Xylene	<0.00101	U F1	0.199	0.1450		mg/Kg		73	70 - 130		
o-Xylene	<0.000343	U F1	0.0994	0.09155		mg/Kg		92	70 - 130		

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	73		70 - 130
1,4-Difluorobenzene (Surr)	74		70 - 130

**Lab Sample ID: 880-10347-3 MSD**

**Matrix: Solid**

**Analysis Batch: 17324**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Benzene	<0.000383	U F1	0.100	0.06125	F1	mg/Kg		61	70 - 130	32	35
Toluene	<0.000454	U F1	0.100	0.05238	F1	mg/Kg		52	70 - 130	25	35
Ethylbenzene	<0.000563	U F2 F1	0.100	0.07693	F2	mg/Kg		77	70 - 130	64	35
m-Xylene & p-Xylene	<0.00101	U F1	0.200	0.1349	F1	mg/Kg		67	70 - 130	7	35
o-Xylene	<0.000343	U F1	0.100	0.06636	F1	mg/Kg		66	70 - 130	32	35

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		01/20/22 08:47	01/20/22 19:44	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		01/20/22 08:47	01/20/22 19:44	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/20/22 08:47	01/20/22 19:44	1

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**QC Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10347-1  
SDG: Eddy County, NM

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

<b>Surrogate</b>	<b>MB</b>	<b>MB</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane			94		70 - 130	01/20/22 08:47	01/20/22 19:44	1
<i>o-Terphenyl</i>			97		70 - 130	01/20/22 08:47	01/20/22 19:44	1

**Lab Sample ID: LCS 880-17332/2-A****Matrix: Solid****Analysis Batch: 17331**

<b>Analyte</b>	<b>Spike</b>	<b>LCS</b>	<b>LCS</b>	<b>%Rec.</b>			
<b>Surrogate</b>	<b>Added</b>	<b>Result</b>	<b>Qualifier</b>	<b>Unit</b>	<b>D</b>	<b>%Rec</b>	<b>Limits</b>
Gasoline Range Organics (GRO)-C6-C10	1000	886.3		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	1000	934.1		mg/Kg		93	70 - 130
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				
1-Chlorooctane	110		70 - 130				
<i>o-Terphenyl</i>	102		70 - 130				

**Lab Sample ID: LCSD 880-17332/3-A****Matrix: Solid****Analysis Batch: 17331**

<b>Analyte</b>	<b>Spike</b>	<b>LCSD</b>	<b>LCSD</b>	<b>%Rec.</b>	<b>RPD</b>				
<b>Surrogate</b>	<b>Added</b>	<b>Result</b>	<b>Qualifier</b>	<b>Unit</b>	<b>D</b>	<b>%Rec</b>	<b>Limits</b>	<b>RPD</b>	<b>Limit</b>
Gasoline Range Organics (GRO)-C6-C10	1000	1065		mg/Kg		106	70 - 130	18	20
Diesel Range Organics (Over C10-C28)	1000	1170 *1		mg/Kg		117	70 - 130	22	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
1-Chlorooctane	124		70 - 130						
<i>o-Terphenyl</i>	120		70 - 130						

**Lab Sample ID: 880-10347-1 MS****Matrix: Solid****Analysis Batch: 17331**

<b>Analyte</b>	<b>Sample</b>	<b>Sample</b>	<b>Spike</b>	<b>MS</b>	<b>MS</b>	<b>%Rec.</b>			
<b>Surrogate</b>	<b>Result</b>	<b>Qualifier</b>	<b>Added</b>	<b>Result</b>	<b>Qualifier</b>	<b>Unit</b>	<b>D</b>	<b>%Rec</b>	<b>Limits</b>
Gasoline Range Organics (GRO)-C6-C10	22.0	J F1	997	1520	F1	mg/Kg		150	70 - 130
Diesel Range Organics (Over C10-C28)	<15.0	U F1 *1	997	1532	F1	mg/Kg		154	70 - 130
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
1-Chlorooctane	103		70 - 130						
<i>o-Terphenyl</i>	88		70 - 130						

**Lab Sample ID: 880-10347-1 MSD****Matrix: Solid****Analysis Batch: 17332**

<b>Analyte</b>	<b>Sample</b>	<b>Sample</b>	<b>Spike</b>	<b>MSD</b>	<b>MSD</b>	<b>%Rec.</b>			
<b>Surrogate</b>	<b>Result</b>	<b>Qualifier</b>	<b>Added</b>	<b>Result</b>	<b>Qualifier</b>	<b>Unit</b>	<b>D</b>	<b>%Rec</b>	<b>RPD</b>
Gasoline Range Organics (GRO)-C6-C10	22.0	J F1	996	1598	F1	mg/Kg		158	70 - 130

**Client Sample ID: SW-7****Prep Type: Total/NA****Prep Batch: 17332****Prep Batch: 17332**

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**QC Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10347-1  
SDG: Eddy County, NM

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

Lab Sample ID: 880-10347-1 MSD

Matrix: Solid

Analysis Batch: 17331

Client Sample ID: SW-7  
Prep Type: Total/NA  
Prep Batch: 17332

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec.	RPD
	Result	Qualifier	Added	Result	Qualifier				
Diesel Range Organics (Over C10-C28)	<15.0	U F1 *1	996	1621	F1	mg/Kg	163	70 - 130	6 20
<i>Surrogate</i>									
<i>1-Chlorooctane</i>									
109		70 - 130							
<i>o-Terphenyl</i>		90		70 - 130					

**Method: 300.0 - Anions, Ion Chromatography**

Lab Sample ID: MB 880-17255/1-A

Client Sample ID: Method Blank  
Prep Type: Soluble

Matrix: Solid

Analysis Batch: 17322

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<0.858	U	5.00	0.858	mg/Kg			01/19/22 18:57	1

Lab Sample ID: LCS 880-17255/2-A

Client Sample ID: Lab Control Sample  
Prep Type: Soluble

Matrix: Solid

Analysis Batch: 17322

Analyte	Spike	LCS	LCS	Unit	D	%Rec.	Limits	RPD
	Added	Result	Qualifier					
Chloride	250	272.3		mg/Kg	109	90 - 110		

Lab Sample ID: LCSD 880-17255/3-A

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

Matrix: Solid

Analysis Batch: 17322

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec.	Limits	RPD
	Added	Result	Qualifier					
Chloride	250	271.8		mg/Kg	109	90 - 110		0 20

Lab Sample ID: 880-10347-1 MS

Client Sample ID: SW-7  
Prep Type: Soluble

Matrix: Solid

Analysis Batch: 17322

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier				
Chloride	9.26	F1	248	281.8		mg/Kg	110	90 - 110	

Lab Sample ID: 880-10347-1 MSD

Client Sample ID: SW-7  
Prep Type: Soluble

Matrix: Solid

Analysis Batch: 17322

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec.	RPD
	Result	Qualifier	Added	Result	Qualifier				
Chloride	9.26	F1	248	283.7	F1	mg/Kg	111	90 - 110	1 20

Lab Sample ID: MB 880-17256/1-A

Client Sample ID: Method Blank  
Prep Type: Soluble

Matrix: Solid

Analysis Batch: 17344

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<0.858	U	5.00	0.858	mg/Kg			01/20/22 09:14	1

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**QC Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-10347-1  
 SDG: Eddy County, NM

**Method: 300.0 - Anions, Ion Chromatography (Continued)**

**Lab Sample ID: LCS 880-17256/2-A**

**Matrix: Solid**

**Analysis Batch: 17344**

**Client Sample ID: Lab Control Sample**

**Prep Type: Soluble**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits	
Chloride	250	263.5		mg/Kg		105	90 - 110	

**Lab Sample ID: LCSD 880-17256/3-A**

**Matrix: Solid**

**Analysis Batch: 17344**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Soluble**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec.	Limits	RPD	Limit
Chloride	250	272.6		mg/Kg		109	90 - 110	3	20

**QC Association Summary**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10347-1  
SDG: Eddy County, NM

**GC VOA****Prep Batch: 17131**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-17131/5-A	Method Blank	Total/NA	Solid	5035	

**Prep Batch: 17218**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10347-1	SW-7	Total/NA	Solid	5035	
880-10347-2	SW-8	Total/NA	Solid	5035	
MB 880-17218/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-17218/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-17218/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

**Prep Batch: 17238**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10347-3	SW-26	Total/NA	Solid	5035	
880-10347-4	SW-27	Total/NA	Solid	5035	
880-10347-5	BH-27	Total/NA	Solid	5035	
880-10347-6	BH-28	Total/NA	Solid	5035	
880-10347-7	BH-29	Total/NA	Solid	5035	
880-10347-8	BH-30	Total/NA	Solid	5035	
880-10347-9	BH-31	Total/NA	Solid	5035	
880-10347-10	BH-32	Total/NA	Solid	5035	
880-10347-11	BH-33	Total/NA	Solid	5035	
MB 880-17238/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-17238/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-17238/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-10347-3 MS	SW-26	Total/NA	Solid	5035	
880-10347-3 MSD	SW-26	Total/NA	Solid	5035	

**Analysis Batch: 17324**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10347-3	SW-26	Total/NA	Solid	8021B	17238
880-10347-4	SW-27	Total/NA	Solid	8021B	17238
880-10347-5	BH-27	Total/NA	Solid	8021B	17238
880-10347-6	BH-28	Total/NA	Solid	8021B	17238
880-10347-7	BH-29	Total/NA	Solid	8021B	17238
880-10347-8	BH-30	Total/NA	Solid	8021B	17238
880-10347-9	BH-31	Total/NA	Solid	8021B	17238
880-10347-10	BH-32	Total/NA	Solid	8021B	17238
880-10347-11	BH-33	Total/NA	Solid	8021B	17238
MB 880-17238/5-A	Method Blank	Total/NA	Solid	8021B	17238
LCS 880-17238/1-A	Lab Control Sample	Total/NA	Solid	8021B	17238
LCSD 880-17238/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	17238
880-10347-3 MS	SW-26	Total/NA	Solid	8021B	17238
880-10347-3 MSD	SW-26	Total/NA	Solid	8021B	17238

**Analysis Batch: 17325**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10347-1	SW-7	Total/NA	Solid	8021B	17218
880-10347-2	SW-8	Total/NA	Solid	8021B	17218
MB 880-17131/5-A	Method Blank	Total/NA	Solid	8021B	17131
MB 880-17218/5-A	Method Blank	Total/NA	Solid	8021B	17218
LCS 880-17218/1-A	Lab Control Sample	Total/NA	Solid	8021B	17218

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**QC Association Summary**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-10347-1  
 SDG: Eddy County, NM

**GC VOA (Continued)****Analysis Batch: 17325 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-17218/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	17218

**Analysis Batch: 17392**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10347-3	SW-26	Total/NA	Solid	Total BTEX	
880-10347-4	SW-27	Total/NA	Solid	Total BTEX	
880-10347-5	BH-27	Total/NA	Solid	Total BTEX	
880-10347-6	BH-28	Total/NA	Solid	Total BTEX	
880-10347-7	BH-29	Total/NA	Solid	Total BTEX	
880-10347-8	BH-30	Total/NA	Solid	Total BTEX	
880-10347-9	BH-31	Total/NA	Solid	Total BTEX	

**Analysis Batch: 17647**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10347-1	SW-7	Total/NA	Solid	Total BTEX	
880-10347-2	SW-8	Total/NA	Solid	Total BTEX	
880-10347-10	BH-32	Total/NA	Solid	Total BTEX	
880-10347-11	BH-33	Total/NA	Solid	Total BTEX	

**GC Semi VOA****Analysis Batch: 17331**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10347-1	SW-7	Total/NA	Solid	8015B NM	17332
880-10347-2	SW-8	Total/NA	Solid	8015B NM	17332
880-10347-3	SW-26	Total/NA	Solid	8015B NM	17332
880-10347-4	SW-27	Total/NA	Solid	8015B NM	17332
880-10347-5	BH-27	Total/NA	Solid	8015B NM	17332
880-10347-6	BH-28	Total/NA	Solid	8015B NM	17332
880-10347-7	BH-29	Total/NA	Solid	8015B NM	17332
880-10347-8	BH-30	Total/NA	Solid	8015B NM	17332
880-10347-9	BH-31	Total/NA	Solid	8015B NM	17332
880-10347-10	BH-32	Total/NA	Solid	8015B NM	17332
880-10347-11	BH-33	Total/NA	Solid	8015B NM	17332
MB 880-17332/1-A	Method Blank	Total/NA	Solid	8015B NM	17332
LCS 880-17332/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	17332
LCSD 880-17332/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17332
880-10347-1 MS	SW-7	Total/NA	Solid	8015B NM	17332
880-10347-1 MSD	SW-7	Total/NA	Solid	8015B NM	17332

**Prep Batch: 17332**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10347-1	SW-7	Total/NA	Solid	8015NM Prep	
880-10347-2	SW-8	Total/NA	Solid	8015NM Prep	
880-10347-3	SW-26	Total/NA	Solid	8015NM Prep	
880-10347-4	SW-27	Total/NA	Solid	8015NM Prep	
880-10347-5	BH-27	Total/NA	Solid	8015NM Prep	
880-10347-6	BH-28	Total/NA	Solid	8015NM Prep	
880-10347-7	BH-29	Total/NA	Solid	8015NM Prep	
880-10347-8	BH-30	Total/NA	Solid	8015NM Prep	
880-10347-9	BH-31	Total/NA	Solid	8015NM Prep	

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**QC Association Summary**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10347-1  
SDG: Eddy County, NM

**GC Semi VOA (Continued)****Prep Batch: 17332 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10347-10	BH-32	Total/NA	Solid	8015NM Prep	
880-10347-11	BH-33	Total/NA	Solid	8015NM Prep	
MB 880-17332/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-17332/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-17332/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-10347-1 MS	SW-7	Total/NA	Solid	8015NM Prep	
880-10347-1 MSD	SW-7	Total/NA	Solid	8015NM Prep	

**Analysis Batch: 17641**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10347-1	SW-7	Total/NA	Solid	8015 NM	
880-10347-2	SW-8	Total/NA	Solid	8015 NM	
880-10347-3	SW-26	Total/NA	Solid	8015 NM	
880-10347-4	SW-27	Total/NA	Solid	8015 NM	
880-10347-5	BH-27	Total/NA	Solid	8015 NM	
880-10347-6	BH-28	Total/NA	Solid	8015 NM	
880-10347-7	BH-29	Total/NA	Solid	8015 NM	
880-10347-8	BH-30	Total/NA	Solid	8015 NM	
880-10347-9	BH-31	Total/NA	Solid	8015 NM	
880-10347-10	BH-32	Total/NA	Solid	8015 NM	
880-10347-11	BH-33	Total/NA	Solid	8015 NM	

**HPLC/IC****Leach Batch: 17255**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10347-1	SW-7	Soluble	Solid	DI Leach	
880-10347-2	SW-8	Soluble	Solid	DI Leach	
880-10347-3	SW-26	Soluble	Solid	DI Leach	
880-10347-4	SW-27	Soluble	Solid	DI Leach	
880-10347-5	BH-27	Soluble	Solid	DI Leach	
880-10347-6	BH-28	Soluble	Solid	DI Leach	
880-10347-7	BH-29	Soluble	Solid	DI Leach	
MB 880-17255/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-17255/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-17255/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-10347-1 MS	SW-7	Soluble	Solid	DI Leach	
880-10347-1 MSD	SW-7	Soluble	Solid	DI Leach	

**Leach Batch: 17256**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10347-8	BH-30	Soluble	Solid	DI Leach	
880-10347-9	BH-31	Soluble	Solid	DI Leach	
880-10347-10	BH-32	Soluble	Solid	DI Leach	
880-10347-11	BH-33	Soluble	Solid	DI Leach	
MB 880-17256/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-17256/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-17256/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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**QC Association Summary**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-10347-1  
 SDG: Eddy County, NM

**HPLC/IC****Analysis Batch: 17322**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10347-1	SW-7	Soluble	Solid	300.0	17255
880-10347-2	SW-8	Soluble	Solid	300.0	17255
880-10347-3	SW-26	Soluble	Solid	300.0	17255
880-10347-4	SW-27	Soluble	Solid	300.0	17255
880-10347-5	BH-27	Soluble	Solid	300.0	17255
880-10347-6	BH-28	Soluble	Solid	300.0	17255
880-10347-7	BH-29	Soluble	Solid	300.0	17255
MB 880-17255/1-A	Method Blank	Soluble	Solid	300.0	17255
LCS 880-17255/2-A	Lab Control Sample	Soluble	Solid	300.0	17255
LCSD 880-17255/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	17255
880-10347-1 MS	SW-7	Soluble	Solid	300.0	17255
880-10347-1 MSD	SW-7	Soluble	Solid	300.0	17255

**Analysis Batch: 17344**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10347-8	BH-30	Soluble	Solid	300.0	17256
880-10347-9	BH-31	Soluble	Solid	300.0	17256
880-10347-10	BH-32	Soluble	Solid	300.0	17256
880-10347-11	BH-33	Soluble	Solid	300.0	17256
MB 880-17256/1-A	Method Blank	Soluble	Solid	300.0	17256
LCS 880-17256/2-A	Lab Control Sample	Soluble	Solid	300.0	17256
LCSD 880-17256/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	17256

**Lab Chronicle**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-10347-1  
 SDG: Eddy County, NM

**Client Sample ID: SW-7**

Date Collected: 01/17/22 11:50  
 Date Received: 01/19/22 13:15

**Lab Sample ID: 880-10347-1**

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			5.05 g	5 mL	17218	01/19/22 13:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17325	01/21/22 06:53	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17647	01/24/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17332	01/20/22 08:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17331	01/20/22 20:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	17255	01/19/22 14:00	CH	XEN MID
Soluble	Analysis	300.0		1			17322	01/19/22 19:20	CH	XEN MID

**Client Sample ID: SW-8**

Date Collected: 01/17/22 11:55  
 Date Received: 01/19/22 13:15

**Lab Sample ID: 880-10347-2**

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	17218	01/19/22 13:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17325	01/21/22 07:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17647	01/24/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17332	01/20/22 08:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17331	01/20/22 21:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	17255	01/19/22 14:00	CH	XEN MID
Soluble	Analysis	300.0		1			17322	01/19/22 19:43	CH	XEN MID

**Client Sample ID: SW-26**

Date Collected: 01/17/22 12:55  
 Date Received: 01/19/22 13:15

**Lab Sample ID: 880-10347-3**

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	17238	01/20/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17324	01/20/22 11:20	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17392	01/20/22 15:55	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17332	01/20/22 08:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17331	01/20/22 22:08	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	17255	01/19/22 14:00	CH	XEN MID
Soluble	Analysis	300.0		1			17322	01/19/22 19:50	CH	XEN MID

**Client Sample ID: SW-27**

Date Collected: 01/17/22 13:00  
 Date Received: 01/19/22 13:15

**Lab Sample ID: 880-10347-4**

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			5.05 g	5 mL	17238	01/20/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17324	01/20/22 11:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17392	01/20/22 15:55	AJ	XEN MID

Eurofins Midland

**Lab Chronicle**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10347-1  
SDG: Eddy County, NM

**Client Sample ID: SW-27**

Date Collected: 01/17/22 13:00

Date Received: 01/19/22 13:15

**Lab Sample ID: 880-10347-4**

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17332	01/20/22 08:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17331	01/20/22 22:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	17255	01/19/22 14:00	CH	XEN MID
Soluble	Analysis	300.0		1			17322	01/19/22 19:58	CH	XEN MID

**Client Sample ID: BH-27**

Date Collected: 01/17/22 12:00

Date Received: 01/19/22 13:15

**Lab Sample ID: 880-10347-5**

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	17238	01/20/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17324	01/20/22 12:01	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17392	01/20/22 15:55	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17332	01/20/22 08:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17331	01/20/22 22:49	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	17255	01/19/22 14:00	CH	XEN MID
Soluble	Analysis	300.0		1			17322	01/19/22 20:05	CH	XEN MID

**Client Sample ID: BH-28**

Date Collected: 01/17/22 12:05

Date Received: 01/19/22 13:15

**Lab Sample ID: 880-10347-6**

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	17238	01/20/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17324	01/20/22 12:22	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17392	01/20/22 15:55	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17332	01/20/22 08:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17331	01/20/22 23:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	17255	01/19/22 14:00	CH	XEN MID
Soluble	Analysis	300.0		1			17322	01/19/22 20:28	CH	XEN MID

**Client Sample ID: BH-29**

Date Collected: 01/17/22 12:15

Date Received: 01/19/22 13:15

**Lab Sample ID: 880-10347-7**

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	17238	01/20/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17324	01/20/22 12:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17392	01/20/22 15:55	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17332	01/20/22 08:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17331	01/20/22 23:29	AJ	XEN MID

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**Lab Chronicle**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10347-1  
SDG: Eddy County, NM

**Client Sample ID: BH-29**  
Date Collected: 01/17/22 12:15  
Date Received: 01/19/22 13:15

**Lab Sample ID: 880-10347-7**  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	17255	01/19/22 14:00	CH	XEN MID
Soluble	Analysis	300.0		1			17322	01/19/22 20:35	CH	XEN MID

**Client Sample ID: BH-30**  
Date Collected: 01/17/22 12:20  
Date Received: 01/19/22 13:15

**Lab Sample ID: 880-10347-8**  
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			4.99 g	5 mL	17238	01/20/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17324	01/20/22 13:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17392	01/20/22 15:55	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17332	01/20/22 08:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17331	01/20/22 23:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	17256	01/19/22 14:00	CH	XEN MID
Soluble	Analysis	300.0		1			17344	01/20/22 12:43	CH	XEN MID

**Client Sample ID: BH-31**  
Date Collected: 01/17/22 12:25  
Date Received: 01/19/22 13:15

**Lab Sample ID: 880-10347-9**  
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			4.99 g	5 mL	17238	01/20/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17324	01/20/22 13:23	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17392	01/20/22 15:55	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17332	01/20/22 08:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17331	01/21/22 00:10	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	17256	01/19/22 14:00	CH	XEN MID
Soluble	Analysis	300.0		1			17344	01/20/22 12:52	CH	XEN MID

**Client Sample ID: BH-32**  
Date Collected: 01/17/22 12:30  
Date Received: 01/19/22 13:15

**Lab Sample ID: 880-10347-10**  
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			5.04 g	5 mL	17238	01/20/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17324	01/20/22 15:47	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17647	01/24/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:26	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	17332	01/20/22 08:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17331	01/21/22 00:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	17256	01/19/22 14:00	CH	XEN MID
Soluble	Analysis	300.0		1			17344	01/20/22 13:00	CH	XEN MID

Eurofins Midland

**Lab Chronicle**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-10347-1  
 SDG: Eddy County, NM

**Client Sample ID: BH-33**  
**Date Collected: 01/17/22 12:35**  
**Date Received: 01/19/22 13:15**

**Lab Sample ID: 880-10347-11**  
**Matrix: Solid**

Prep Type	Batch	Batch	Dil	Initial	Final	Batch	Prepared	or Analyzed	Analyst	Lab	
	Type	Method	Run	Factor	Amount	Number					5
Total/NA	Prep	5035			5.01 g	5 mL	17238	01/20/22 07:30	KL	XEN MID	6
Total/NA	Analysis	8021B		1	5 mL	5 mL	17324	01/20/22 16:07	KL	XEN MID	7
Total/NA	Analysis	Total BTEX		1			17647	01/24/22 16:52	AJ	XEN MID	8
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:26	AJ	XEN MID	9
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17332	01/20/22 08:47	DM	XEN MID	10
Total/NA	Analysis	8015B NM		1			17331	01/21/22 01:12	AJ	XEN MID	11
Soluble	Leach	DI Leach			5.05 g	50 mL	17256	01/19/22 14:00	CH	XEN MID	12
Soluble	Analysis	300.0		1			17344	01/20/22 13:08	CH	XEN MID	13

**Laboratory References:**

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

Eurofins Midland

## Accreditation/Certification Summary

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10347-1  
SDG: Eddy County, NM

### **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  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14

Eurofins Midland

## Method Summary

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10347-1  
SDG: Eddy County, NM

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

Eurofins Midland

**Sample Summary**

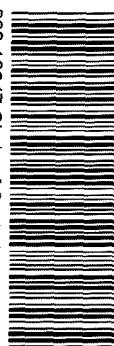
Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-10347-1  
 SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
880-10347-1	SW-7	Solid	01/17/22 11:50	01/19/22 13:15	1
880-10347-2	SW-8	Solid	01/17/22 11:55	01/19/22 13:15	2
880-10347-3	SW-26	Solid	01/17/22 12:55	01/19/22 13:15	3
880-10347-4	SW-27	Solid	01/17/22 13:00	01/19/22 13:15	4
880-10347-5	BH-27	Solid	01/17/22 12:00	01/19/22 13:15	5
880-10347-6	BH-28	Solid	01/17/22 12:05	01/19/22 13:15	6
880-10347-7	BH-29	Solid	01/17/22 12:15	01/19/22 13:15	7
880-10347-8	BH-30	Solid	01/17/22 12:20	01/19/22 13:15	8
880-10347-9	BH-31	Solid	01/17/22 12:25	01/19/22 13:15	9
880-10347-10	BH-32	Solid	01/17/22 12:30	01/19/22 13:15	10
880-10347-11	BH-33	Solid	01/17/22 12:35	01/19/22 13:15	11



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



880-10347 Chain of Custody

Project Manager

"Becky"

880-10347 Chain of Custody

Company Name

C HD

Company Address

Midland, TX

City/State/Zip

Telephone No

23

Fax No:

Sampler Signature

(Lab use only)

ORDER #:

Beginning Depth	
Ending Depth	

Date Sampled	
Time Sampled	

Field Filtered	
Total # of Containers	
Ice	
HNO <sub>3</sub>	
HCl	
H <sub>2</sub> SO <sub>4</sub>	
NaOH	
Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	
None	
Other (Specify)	

DW=Drinking Water SL=Sludge

GW=Groundwater S=Soil/Solid

NP=Non-Potable

Specify Other

Matrix

## Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 880-10347-1  
SDG Number: Eddy County, NM**Login Number:** 10347**List Source:** Eurofins Midland**List Number:** 1**Creator:** Teel, Brianna

Question	Answer	Comment	
The cooler's custody seal, if present, is intact.	N/A		1
Sample custody seals, if present, are intact.	N/A		2
The cooler or samples do not appear to have been compromised or tampered with.	True		3
Samples were received on ice.	True		4
Cooler Temperature is acceptable.	True		5
Cooler Temperature is recorded.	True		6
COC is present.	True		7
COC is filled out in ink and legible.	True		8
COC is filled out with all pertinent information.	True		9
Is the Field Sampler's name present on COC?	True		10
There are no discrepancies between the containers received and the COC.	True		11
Samples are received within Holding Time (excluding tests with immediate HTs)	True		12
Sample containers have legible labels.	True		13
Containers are not broken or leaking.	True		14
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		



eurofins

Environment Testing  
America



## ANALYTICAL REPORT

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

Laboratory Job ID: 880-10688-1

Laboratory Sample Delivery Group: Eddy County, NM  
Client Project/Site: Snapping Pumps  
Revision: 1

For:  
GHD Services Inc.  
2135 South Loop 250 West  
Midland, Texas 79703

Attn: Becky Haskell

*Debbie Simmons*

Authorized for release by:  
2/3/2022 2:45:46 PM

Debbie Simmons, Project Manager  
(832)986-6768  
[debbie.simmons@eurofinset.com](mailto:debbie.simmons@eurofinset.com)

### LINKS

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The  
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[www.eurofinsus.com/Env](http://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.

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Laboratory Job ID: 880-10688-1  
 SDG: Eddy County, NM

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## Definitions/Glossary

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10688-1  
SDG: Eddy County, NM

### Qualifiers

#### GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

#### GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

#### HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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.
□	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: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10688-1  
SDG: Eddy County, NM

### **Job ID: 880-10688-1**

#### **Laboratory: Eurofins Midland**

##### **Narrative**

##### **Job Narrative 880-10688-1**

##### **Comments**

No additional comments.

##### **Revision**

The report being provided is a revision of the original report sent on 1/31/2022. The report (revision 1) is being revised due to: COC submitted with two different TATs, revised to report all samples submitted as one final report..

##### **Receipt**

The samples were received on 1/28/2022 12:00 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 3.3° C.

##### **GC VOA**

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

##### **GC Semi VOA**

Method 8015B NM: The method blank for preparation batch 880-18062 and analytical batch 880-17977 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: (MB 880-18062/1-A), (890-1869-A-1-G) and (890-1869-A-1-I MSD). Evidence of matrix interferences is not obvious.

Method 8015B NM: The closing CCV bracketing these samples was biased high for diesel range hydrocarbons, the data was reported due to the samples being rush but is being reanalyzed for confirmation due to the possible high bias.

BH-16A (880-10688-2) and BH-17A (880-10688-3)

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

##### **General Chemistry**

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-18091 and analytical batch 880-18196 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300.0: The matrix spike duplicate (MSD) recoveries for preparation batch 880-18269 and 880-18269 and analytical batch 880-18297 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or 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: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10688-1  
SDG: Eddy County, NM

**Client Sample ID: BH-15A**  
Date Collected: 01/27/22 14:10  
Date Received: 01/28/22 07:29

**Lab Sample ID: 880-10688-1**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00202	0.000389	mg/Kg		01/28/22 12:00	01/29/22 02:51	1
Toluene	<b>0.000520</b>	J	0.00202	0.000461	mg/Kg		01/28/22 12:00	01/29/22 02:51	1
Ethylbenzene	<b>0.000641</b>	J	0.00202	0.000571	mg/Kg		01/28/22 12:00	01/29/22 02:51	1
m-Xylene & p-Xylene	<0.00102	U	0.00404	0.00102	mg/Kg		01/28/22 12:00	01/29/22 02:51	1
<b>o-Xylene</b>	<b>0.000695</b>	J	0.00202	0.000347	mg/Kg		01/28/22 12:00	01/29/22 02:51	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg		01/28/22 12:00	01/29/22 02:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	178	S1+	70 - 130	01/28/22 12:00	01/29/22 02:51	1
1,4-Difluorobenzene (Surr)	78		70 - 130	01/28/22 12:00	01/29/22 02:51	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<b>0.00186</b>	J	0.00404	0.00102	mg/Kg			01/31/22 13:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<b>125</b>		50.0	15.0	mg/Kg			01/31/22 13:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		01/28/22 14:42	01/29/22 05:46	1
<b>Diesel Range Organics (Over C10-C28)</b>	<b>125</b>	B	50.0	15.0	mg/Kg		01/28/22 14:42	01/29/22 05:46	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/28/22 14:42	01/29/22 05:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	01/28/22 14:42	01/29/22 05:46	1
<i>o-Terphenyl</i>	92		70 - 130	01/28/22 14:42	01/29/22 05:46	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<b>9.20</b>		4.95	0.850	mg/Kg			01/30/22 21:29	1

**Client Sample ID: BH-16A**

**Lab Sample ID: 880-10688-2**

Date Collected: 01/27/22 14:20  
Date Received: 01/28/22 07:29

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		01/28/22 12:00	01/29/22 03:20	1
Toluene	<b>0.0129</b>		0.00200	0.000456	mg/Kg		01/28/22 12:00	01/29/22 03:20	1
Ethylbenzene	<b>0.0135</b>		0.00200	0.000565	mg/Kg		01/28/22 12:00	01/29/22 03:20	1
m-Xylene & p-Xylene	<b>0.353</b>		0.00400	0.00101	mg/Kg		01/28/22 12:00	01/29/22 03:20	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>o-Xylene</b>	<b>0.155</b>		0.00200	0.000344	mg/Kg		01/28/22 12:00	01/29/22 03:20	1
Xylenes, Total	<b>0.508</b>		0.00400	0.00101	mg/Kg		01/28/22 12:00	01/29/22 03:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	282	S1+	70 - 130	01/28/22 12:00	01/29/22 03:20	1
1,4-Difluorobenzene (Surr)	73		70 - 130	01/28/22 12:00	01/29/22 03:20	1

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# Client Sample Results

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10688-1  
SDG: Eddy County, NM

**Client Sample ID: BH-16A**  
Date Collected: 01/27/22 14:20  
Date Received: 01/28/22 07:29

**Lab Sample ID: 880-10688-2**  
Matrix: Solid

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.534		0.00400	0.00101	mg/Kg			01/31/22 13:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	543		50.0	15.0	mg/Kg			01/31/22 13:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	74.6		50.0	15.0	mg/Kg		01/28/22 14:42	01/29/22 06:06	1
Diesel Range Organics (Over C10-C28)	432	B	50.0	15.0	mg/Kg		01/28/22 14:42	01/29/22 06:06	1
Oil Range Organics (Over C28-C36)	36.8	J	50.0	15.0	mg/Kg		01/28/22 14:42	01/29/22 06:06	1

**Surrogate**

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	01/28/22 14:42	01/29/22 06:06	1
o-Terphenyl	91		70 - 130	01/28/22 14:42	01/29/22 06:06	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.4		5.04	0.865	mg/Kg			01/30/22 21:36	1

**Client Sample ID: BH-17A**

Date Collected: 01/27/22 14:30  
Date Received: 01/28/22 07:29

**Lab Sample ID: 880-10688-3**

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.10		0.198	0.0381	mg/Kg		01/31/22 07:24	01/31/22 14:08	100
Toluene	5.81		0.198	0.0451	mg/Kg		01/31/22 07:24	01/31/22 14:08	100
Ethylbenzene	2.88		0.198	0.0559	mg/Kg		01/31/22 07:24	01/31/22 14:08	100
m-Xylene & p-Xylene	36.6		0.396	0.100	mg/Kg		01/31/22 07:24	01/31/22 14:08	100
o-Xylene	8.38		0.198	0.0341	mg/Kg		01/31/22 07:24	01/31/22 14:08	100
Xylenes, Total	45.0		0.396	0.100	mg/Kg		01/31/22 07:24	01/31/22 14:08	100

**Surrogate**

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	150	S1+	70 - 130	01/31/22 07:24	01/31/22 14:08	100
1,4-Difluorobenzene (Surr)	40	S1-	70 - 130	01/31/22 07:24	01/31/22 14:08	100

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	55.8		0.396	0.100	mg/Kg			01/31/22 13:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	8180		50.0	15.0	mg/Kg			01/31/22 13:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2970		50.0	15.0	mg/Kg		01/28/22 14:42	01/29/22 06:27	1

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# Client Sample Results

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10688-1  
SDG: Eddy County, NM

**Client Sample ID: BH-17A**  
Date Collected: 01/27/22 14:30  
Date Received: 01/28/22 07:29

**Lab Sample ID: 880-10688-3**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	4770	B	50.0	15.0	mg/Kg		01/28/22 14:42	01/29/22 06:27	1
Oil Range Organics (Over C28-C36)	435		50.0	15.0	mg/Kg		01/28/22 14:42	01/29/22 06:27	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	102		70 - 130				01/28/22 14:42	01/29/22 06:27	1
o-Terphenyl	84		70 - 130				01/28/22 14:42	01/29/22 06:27	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.8		4.97	0.853	mg/Kg			01/30/22 21:59	1

**Client Sample ID: SW-28 14'-19'**

**Lab Sample ID: 880-10688-4**  
Matrix: Solid

Date Collected: 01/27/22 13:20  
Date Received: 01/28/22 07:29

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg		01/28/22 12:00	01/29/22 04:16	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		01/28/22 12:00	01/29/22 04:16	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		01/28/22 12:00	01/29/22 04:16	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		01/28/22 12:00	01/29/22 04:16	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		01/28/22 12:00	01/29/22 04:16	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		01/28/22 12:00	01/29/22 04:16	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	179	S1+	70 - 130				01/28/22 12:00	01/29/22 04:16	1
1,4-Difluorobenzene (Surr)	104		70 - 130				01/28/22 12:00	01/29/22 04:16	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00100	U	0.00396	0.00100	mg/Kg			02/03/22 13:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	30.0	J	49.9	15.0	mg/Kg			01/31/22 13:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		01/31/22 09:54	02/01/22 00:47	1
<b>Diesel Range Organics (Over C10-C28)</b>	<b>30.0</b>	<b>J</b>	49.9	15.0	mg/Kg		01/31/22 09:54	02/01/22 00:47	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		01/31/22 09:54	02/01/22 00:47	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	97		70 - 130				01/31/22 09:54	02/01/22 00:47	1
o-Terphenyl	95		70 - 130				01/31/22 09:54	02/01/22 00:47	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.1		5.00	0.858	mg/Kg			01/31/22 16:13	1

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# Client Sample Results

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10688-1  
SDG: Eddy County, NM

**Client Sample ID: SW-29 14'-19'**  
Date Collected: 01/27/22 13:30  
Date Received: 01/28/22 07:29

**Lab Sample ID: 880-10688-5**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000388	U	0.00202	0.000388	mg/Kg		01/28/22 12:00	01/29/22 04:45	1
Toluene	<b>0.00657</b>		0.00202	0.000460	mg/Kg		01/28/22 12:00	01/29/22 04:45	1
Ethylbenzene	<b>0.00102</b>	J	0.00202	0.000570	mg/Kg		01/28/22 12:00	01/29/22 04:45	1
m-Xylene & p-Xylene	<b>0.0129</b>		0.00403	0.00102	mg/Kg		01/28/22 12:00	01/29/22 04:45	1
o-Xylene	<b>0.00126</b>	J	0.00202	0.000347	mg/Kg		01/28/22 12:00	01/29/22 04:45	1
Xylenes, Total	<b>0.0142</b>		0.00403	0.00102	mg/Kg		01/28/22 12:00	01/29/22 04:45	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	161	S1+	70 - 130				01/28/22 12:00	01/29/22 04:45	1
1,4-Difluorobenzene (Surr)	105		70 - 130				01/28/22 12:00	01/29/22 04:45	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<b>0.0218</b>		0.00403	0.00102	mg/Kg			02/03/22 13:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			01/31/22 13:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		01/31/22 09:54	02/01/22 01:08	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		01/31/22 09:54	02/01/22 01:08	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/31/22 09:54	02/01/22 01:08	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	117		70 - 130				01/31/22 09:54	02/01/22 01:08	1
o-Terphenyl	115		70 - 130				01/31/22 09:54	02/01/22 01:08	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<b>53.2</b>		4.96	0.851	mg/Kg			01/31/22 16:21	1

**Client Sample ID: SW-30 14'-19'**

**Lab Sample ID: 880-10688-6**

Date Collected: 01/27/22 13:40

Matrix: Solid

Date Received: 01/28/22 07:29

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		01/28/22 12:00	01/29/22 05:13	1
Toluene	<b>0.00324</b>		0.00199	0.000453	mg/Kg		01/28/22 12:00	01/29/22 05:13	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		01/28/22 12:00	01/29/22 05:13	1
m-Xylene & p-Xylene	<b>0.00539</b>		0.00398	0.00100	mg/Kg		01/28/22 12:00	01/29/22 05:13	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		01/28/22 12:00	01/29/22 05:13	1
Xylenes, Total	<b>0.00539</b>		0.00398	0.00100	mg/Kg		01/28/22 12:00	01/29/22 05:13	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130				01/28/22 12:00	01/29/22 05:13	1
1,4-Difluorobenzene (Surr)	106		70 - 130				01/28/22 12:00	01/29/22 05:13	1

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# Client Sample Results

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10688-1  
SDG: Eddy County, NM

**Client Sample ID: SW-30 14'-19'**  
Date Collected: 01/27/22 13:40  
Date Received: 01/28/22 07:29

**Lab Sample ID: 880-10688-6**  
Matrix: Solid

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00863		0.00398	0.00100	mg/Kg			02/03/22 13:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			01/31/22 13:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg			02/01/22 01:29	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg			02/01/22 01:29	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg			02/01/22 01:29	1

### Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	01/31/22 09:54	02/01/22 01:29	1
o-Terphenyl	91		70 - 130	01/31/22 09:54	02/01/22 01:29	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.4		4.98	0.855	mg/Kg			01/31/22 16:28	1

**Client Sample ID: SW-31 14'-19'**

**Lab Sample ID: 880-10688-7**

Date Collected: 01/27/22 13:50  
Date Received: 01/28/22 07:29

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg			01/28/22 12:00	01/29/22 05:40
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg			01/28/22 12:00	01/29/22 05:40
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg			01/28/22 12:00	01/29/22 05:40
m-Xylene & p-Xylene	0.00277	J	0.00400	0.00101	mg/Kg			01/28/22 12:00	01/29/22 05:40
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg			01/28/22 12:00	01/29/22 05:40
Xylenes, Total	0.00277	J	0.00400	0.00101	mg/Kg			01/28/22 12:00	01/29/22 05:40

### Surrogate

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	157	S1+	70 - 130	01/28/22 12:00	01/29/22 05:40	1
1,4-Difluorobenzene (Surr)	95		70 - 130	01/28/22 12:00	01/29/22 05:40	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00277	J	0.00400	0.00101	mg/Kg			02/03/22 13:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.9	15.0	mg/Kg			01/31/22 13:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg			02/01/22 02:10	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg			02/01/22 02:10	1

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# Client Sample Results

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10688-1  
SDG: Eddy County, NM

**Client Sample ID: SW-31 14'-19'**  
Date Collected: 01/27/22 13:50  
Date Received: 01/28/22 07:29

**Lab Sample ID: 880-10688-7**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg	D	01/31/22 09:54	02/01/22 02:10	1
<b>Surrogate</b>									
1-Chlorooctane	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
102			70 - 130				01/31/22 09:54	02/01/22 02:10	1
o-Terphenyl	98		70 - 130				01/31/22 09:54	02/01/22 02:10	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.6		4.95	0.850	mg/Kg	D		02/01/22 16:48	1

**Client Sample ID: BH-14A**

**Lab Sample ID: 880-10688-8**  
Matrix: Solid

Date Collected: 01/27/22 14:00

Date Received: 01/28/22 07:29

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000384	U	0.00200	0.000384	mg/Kg	D	01/28/22 12:00	01/29/22 06:07	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		01/28/22 12:00	01/29/22 06:07	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		01/28/22 12:00	01/29/22 06:07	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		01/28/22 12:00	01/29/22 06:07	1
<b>o-Xylene</b>	<b>0.00109 J</b>		0.00200	0.000343	mg/Kg		01/28/22 12:00	01/29/22 06:07	1
<b>Xylenes, Total</b>	<b>0.00109 J</b>		0.00399	0.00101	mg/Kg		01/28/22 12:00	01/29/22 06:07	1
<b>Surrogate</b>									
4-Bromofluorobenzene (Surr)	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
154	S1+		70 - 130				01/28/22 12:00	01/29/22 06:07	1
1,4-Difluorobenzene (Surr)	96		70 - 130				01/28/22 12:00	01/29/22 06:07	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00109 J		0.00399	0.00101	mg/Kg	D		02/03/22 13:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg	D		01/31/22 13:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg	D	01/31/22 09:54	02/01/22 02:30	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		01/31/22 09:54	02/01/22 02:30	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/31/22 09:54	02/01/22 02:30	1
<b>Surrogate</b>									
1-Chlorooctane	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
96			70 - 130				01/31/22 09:54	02/01/22 02:30	1
o-Terphenyl	94		70 - 130				01/31/22 09:54	02/01/22 02:30	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.1		5.00	0.858	mg/Kg	D		02/01/22 16:55	1

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# Client Sample Results

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10688-1  
SDG: Eddy County, NM

**Client Sample ID: BH-18A**  
Date Collected: 01/27/22 14:40  
Date Received: 01/28/22 07:29

**Lab Sample ID: 880-10688-9**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000389	U	0.00202	0.000389	mg/Kg		01/28/22 12:00	01/29/22 06:34	1
Toluene	<0.000461	U	0.00202	0.000461	mg/Kg		01/28/22 12:00	01/29/22 06:34	1
Ethylbenzene	<0.000571	U	0.00202	0.000571	mg/Kg		01/28/22 12:00	01/29/22 06:34	1
m-Xylene & p-Xylene	0.00126	J	0.00404	0.00102	mg/Kg		01/28/22 12:00	01/29/22 06:34	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		01/28/22 12:00	01/29/22 06:34	1
Xylenes, Total	0.00126	J	0.00404	0.00102	mg/Kg		01/28/22 12:00	01/29/22 06:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	174	S1+	70 - 130	01/28/22 12:00	01/29/22 06:34	1
1,4-Difluorobenzene (Surr)	111		70 - 130	01/28/22 12:00	01/29/22 06:34	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00126	J	0.00404	0.00102	mg/Kg			02/03/22 13:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.0	mg/Kg			01/31/22 13:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		01/31/22 09:54	02/01/22 02:50	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		01/31/22 09:54	02/01/22 02:50	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/31/22 09:54	02/01/22 02:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	01/31/22 09:54	02/01/22 02:50	1
o-Terphenyl	88		70 - 130	01/31/22 09:54	02/01/22 02:50	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.7		4.99	0.857	mg/Kg			02/01/22 17:03	1

**Client Sample ID: BH-19A**

**Lab Sample ID: 880-10688-10**

Date Collected: 01/27/22 14:50  
Date Received: 01/28/22 07:29

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000383	U	0.00199	0.000383	mg/Kg		01/28/22 12:00	01/29/22 07:01	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		01/28/22 12:00	01/29/22 07:01	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		01/28/22 12:00	01/29/22 07:01	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		01/28/22 12:00	01/29/22 07:01	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		01/28/22 12:00	01/29/22 07:01	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		01/28/22 12:00	01/29/22 07:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	154	S1+	70 - 130	01/28/22 12:00	01/29/22 07:01	1
1,4-Difluorobenzene (Surr)	108		70 - 130	01/28/22 12:00	01/29/22 07:01	1

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**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10688-1  
SDG: Eddy County, NM

**Client Sample ID: BH-19A**  
Date Collected: 01/27/22 14:50  
Date Received: 01/28/22 07:29

**Lab Sample ID: 880-10688-10**  
Matrix: Solid

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00101	U	0.00398	0.00101	mg/Kg			02/03/22 13:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	49.9	15.0	mg/Kg			01/31/22 13:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	49.9	15.0	mg/Kg		01/31/22 09:54	02/01/22 03:11	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		01/31/22 09:54	02/01/22 03:11	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		01/31/22 09:54	02/01/22 03:11	1

**Surrogate**

	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	01/31/22 09:54	02/01/22 03:11	1
<i>o</i> -Terphenyl	87		70 - 130	01/31/22 09:54	02/01/22 03:11	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.51	J	4.98	0.855	mg/Kg			02/01/22 17:13	1

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**Surrogate Summary**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-10688-1  
 SDG: Eddy County, NM

**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)	
880-10688-1	BH-15A	178 S1+	78	
880-10688-2	BH-16A	282 S1+	73	
880-10688-3	BH-17A	150 S1+	40 S1-	
880-10688-4	SW-28 14'-19'	179 S1+	104	
880-10688-5	SW-29 14'-19'	161 S1+	105	
880-10688-6	SW-30 14'-19'	156 S1+	106	
880-10688-7	SW-31 14'-19'	157 S1+	95	
880-10688-8	BH-14A	154 S1+	96	
880-10688-9	BH-18A	174 S1+	111	
880-10688-10	BH-19A	154 S1+	108	
LCS 880-17925/1-A	Lab Control Sample	127	112	
LCS 880-18098/1-A	Lab Control Sample	102	101	
LCSD 880-17925/2-A	Lab Control Sample Dup	131 S1+	107	
LCSD 880-18098/2-A	Lab Control Sample Dup	98	99	
MB 880-17873/5-A	Method Blank	86	99	
MB 880-17925/5-A	Method Blank	88	96	
MB 880-18098/5-A	Method Blank	98	95	

**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)	
880-10688-1	BH-15A	82	92	
880-10688-2	BH-16A	81	91	
880-10688-3	BH-17A	102	84	
880-10688-4	SW-28 14'-19'	97	95	
880-10688-5	SW-29 14'-19'	117	115	
880-10688-6	SW-30 14'-19'	94	91	
880-10688-7	SW-31 14'-19'	102	98	
880-10688-8	BH-14A	96	94	
880-10688-9	BH-18A	93	88	
880-10688-10	BH-19A	91	87	
LCS 880-18062/2-A	Lab Control Sample	121	129	
LCSD 880-18062/3-A	Lab Control Sample Dup	104	115	
MB 880-18062/1-A	Method Blank	110	132 S1+	

**Surrogate Legend**

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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**Surrogate Summary**

Client: GHD Services Inc.

Project/Site: Snapping Pumps

Job ID: 880-10688-1

SDG: Eddy County, NM

**Method: 8015B NM - Diesel Range Organics (DRO) (GC)****Matrix: Solid****Prep Type: Total/NA**

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Percent Surrogate Recovery (Acceptance Limits)</b>		
		<b>1CO2 (70-130)</b>	<b>OTPH2 (70-130)</b>	
LCS 880-18131/2-A	Lab Control Sample	84	82	
LCSD 880-18131/3-A	Lab Control Sample Dup	82	78	
MB 880-18131/1-A	Method Blank	106	105	

**Surrogate Legend**

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

1

2

3

4

5

6

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10

11

12

13

14

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**QC Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10688-1  
SDG: Eddy County, NM

**Method: 8021B - Volatile Organic Compounds (GC)****Lab Sample ID: MB 880-17873/5-A****Matrix: Solid****Analysis Batch: 17866****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 17873**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		01/27/22 08:57	01/28/22 04:03	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		01/27/22 08:57	01/28/22 04:03	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		01/27/22 08:57	01/28/22 04:03	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		01/27/22 08:57	01/28/22 04:03	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		01/27/22 08:57	01/28/22 04:03	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		01/27/22 08:57	01/28/22 04:03	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	86		70 - 130	01/27/22 08:57	01/28/22 04:03	1
1,4-Difluorobenzene (Surr)	99		70 - 130	01/27/22 08:57	01/28/22 04:03	1

**Lab Sample ID: MB 880-17925/5-A****Matrix: Solid****Analysis Batch: 17866****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 17925**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		01/28/22 07:30	01/28/22 20:16	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		01/28/22 07:30	01/28/22 20:16	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		01/28/22 07:30	01/28/22 20:16	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		01/28/22 07:30	01/28/22 20:16	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		01/28/22 07:30	01/28/22 20:16	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		01/28/22 07:30	01/28/22 20:16	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	88		70 - 130	01/28/22 07:30	01/28/22 20:16	1
1,4-Difluorobenzene (Surr)	96		70 - 130	01/28/22 07:30	01/28/22 20:16	1

**Lab Sample ID: LCS 880-17925/1-A****Matrix: Solid****Analysis Batch: 17866****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 17925**

Analyte	Spike	LCS	LCS	Unit	D	%Rec.	Limits
	Added	Result	Qualifier				
Benzene	0.100	0.1153		mg/Kg		115	70 - 130
Toluene	0.100	0.09498		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.09455		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	0.200	0.2078		mg/Kg		104	70 - 130
o-Xylene	0.100	0.1102		mg/Kg		110	70 - 130

Surrogate	LCS	LCS	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	127		70 - 130	01/28/22 07:30	01/28/22 20:16	1
1,4-Difluorobenzene (Surr)	112		70 - 130	01/28/22 07:30	01/28/22 20:16	1

**Lab Sample ID: LCSD 880-17925/2-A****Matrix: Solid****Analysis Batch: 17866****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 17925**

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec.	RPD
	Added	Result	Qualifier				
Benzene	0.100	0.1157		mg/Kg		116	0

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## QC Sample Results

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10688-1  
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-17925/2-A

Matrix: Solid

Analysis Batch: 17866

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17925

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Toluene	0.100	0.09650		mg/Kg		96	70 - 130	2	35
Ethylbenzene	0.100	0.09352		mg/Kg		94	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2054		mg/Kg		103	70 - 130	1	35
o-Xylene	0.100	0.1096		mg/Kg		110	70 - 130	0	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: MB 880-18098/5-A

Matrix: Solid

Analysis Batch: 18100

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 18098

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		01/31/22 07:24	01/31/22 10:43	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		01/31/22 07:24	01/31/22 10:43	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		01/31/22 07:24	01/31/22 10:43	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		01/31/22 07:24	01/31/22 10:43	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		01/31/22 07:24	01/31/22 10:43	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		01/31/22 07:24	01/31/22 10:43	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	98		70 - 130	01/31/22 07:24	01/31/22 10:43	1
1,4-Difluorobenzene (Surr)	95		70 - 130	01/31/22 07:24	01/31/22 10:43	1

Lab Sample ID: LCS 880-18098/1-A

Matrix: Solid

Analysis Batch: 18100

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 18098

Analyte	Spike		LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	
	Added	Result							
Benzene	0.100	0.07904		mg/Kg		79	70 - 130		
Toluene	0.100	0.07722		mg/Kg		77	70 - 130		
Ethylbenzene	0.100	0.07702		mg/Kg		77	70 - 130		
m-Xylene & p-Xylene	0.200	0.1584		mg/Kg		79	70 - 130		
o-Xylene	0.100	0.07663		mg/Kg		77	70 - 130		

Surrogate	LCS		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	102		70 - 130	01/31/22 07:24	01/31/22 10:43	1
1,4-Difluorobenzene (Surr)	101		70 - 130	01/31/22 07:24	01/31/22 10:43	1

Lab Sample ID: LCSD 880-18098/2-A

Matrix: Solid

Analysis Batch: 18100

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 18098

Analyte	Spike		LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
	Added	Result								
Benzene	0.100	0.08134		mg/Kg		81	70 - 130		3	35
Toluene	0.100	0.07230		mg/Kg		72	70 - 130		7	35
Ethylbenzene	0.100	0.07478		mg/Kg		75	70 - 130		3	35

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**QC Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10688-1  
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-18098/2-A

Matrix: Solid

Analysis Batch: 18100

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 18098

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m-Xylene & p-Xylene	0.200	0.1517		mg/Kg	76	70 - 130	4	35	
o-Xylene	0.100	0.07439		mg/Kg	74	70 - 130	3	35	

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-18062/1-A

Matrix: Solid

Analysis Batch: 17977

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 18062

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		01/28/22 14:42	01/28/22 21:35	1
Diesel Range Organics (Over C10-C28)	18.26	J	50.0	15.0	mg/Kg		01/28/22 14:42	01/28/22 21:35	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/28/22 14:42	01/28/22 21:35	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	01/28/22 14:42	01/28/22 21:35	1
o-Terphenyl	132	S1+	70 - 130	01/28/22 14:42	01/28/22 21:35	1

Lab Sample ID: LCS 880-18062/2-A

Matrix: Solid

Analysis Batch: 17977

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 18062

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	999.0		mg/Kg		100	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1133		mg/Kg		113	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	129		70 - 130

Lab Sample ID: LCSD 880-18062/3-A

Matrix: Solid

Analysis Batch: 17977

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 18062

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	890.9		mg/Kg		89	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	1000	1001		mg/Kg		100	70 - 130	12	20

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**QC Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10688-1  
SDG: Eddy County, NM

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

Lab Sample ID: LCSD 880-18062/3-A

Matrix: Solid

Analysis Batch: 17977

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 18062

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	104		70 - 130
<i>o</i> -Terphenyl	115		70 - 130

Lab Sample ID: MB 880-18131/1-A

Matrix: Solid

Analysis Batch: 18115

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 18131

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg		01/31/22 09:54	01/31/22 20:34	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		01/31/22 09:54	01/31/22 20:34	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		01/31/22 09:54	01/31/22 20:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	01/31/22 09:54	01/31/22 20:34	1
<i>o</i> -Terphenyl	105		70 - 130	01/31/22 09:54	01/31/22 20:34	1

Lab Sample ID: LCS 880-18131/2-A

Matrix: Solid

Analysis Batch: 18115

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 18131

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1174		mg/Kg		117	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1153		mg/Kg		115	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	84		70 - 130
<i>o</i> -Terphenyl	82		70 - 130

Lab Sample ID: LCSD 880-18131/3-A

Matrix: Solid

Analysis Batch: 18115

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 18131

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec.	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1058		mg/Kg		106	10	20
Diesel Range Organics (Over C10-C28)	1000	983.1		mg/Kg		98	16	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	82		70 - 130
<i>o</i> -Terphenyl	78		70 - 130

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**QC Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10688-1  
SDG: Eddy County, NM

**Method: 300.0 - Anions, Ion Chromatography****Lab Sample ID: MB 880-18023/1-A****Matrix: Solid****Analysis Batch: 18093**

**Client Sample ID: Method Blank**  
**Prep Type: Soluble**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.858	U	5.00	0.858	mg/Kg			01/30/22 20:28	1

**Lab Sample ID: LCS 880-18023/2-A****Matrix: Solid****Analysis Batch: 18093**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Chloride	250	267.9		mg/Kg		107	90 - 110

**Lab Sample ID: LCSD 880-18023/3-A****Matrix: Solid****Analysis Batch: 18093**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec.	RPD	RPD Limit
Chloride	250	268.7		mg/Kg		107	90 - 110	0 20

**Lab Sample ID: MB 880-18091/1-A****Matrix: Solid****Analysis Batch: 18196**

**Client Sample ID: Method Blank**  
**Prep Type: Soluble**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.858	U	5.00	0.858	mg/Kg			01/31/22 15:08	1

**Lab Sample ID: LCS 880-18091/2-A****Matrix: Solid****Analysis Batch: 18196**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Chloride	250	265.4		mg/Kg		106	90 - 110

**Lab Sample ID: LCSD 880-18091/3-A****Matrix: Solid****Analysis Batch: 18196**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec.	RPD	RPD Limit
Chloride	250	268.7		mg/Kg		107	90 - 110	1 20

**Lab Sample ID: MB 880-18269/1-A****Matrix: Solid****Analysis Batch: 18297**

**Client Sample ID: Method Blank**  
**Prep Type: Soluble**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.858	U	5.00	0.858	mg/Kg			02/01/22 15:09	1

**Lab Sample ID: LCS 880-18269/2-A****Matrix: Solid****Analysis Batch: 18297**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Chloride	250	272.3		mg/Kg		109	90 - 110

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**QC Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-10688-1  
 SDG: Eddy County, NM

**Method: 300.0 - Anions, Ion Chromatography**

Lab Sample ID: LCSD 880-18269/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 18297

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	271.6		mg/Kg		109	90 - 110	0	20

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**QC Association Summary**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10688-1  
SDG: Eddy County, NM

**GC VOA****Analysis Batch: 17866**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10688-1	BH-15A	Total/NA	Solid	8021B	17925
880-10688-2	BH-16A	Total/NA	Solid	8021B	17925
880-10688-4	SW-28 14'-19'	Total/NA	Solid	8021B	17925
880-10688-5	SW-29 14'-19'	Total/NA	Solid	8021B	17925
880-10688-6	SW-30 14'-19'	Total/NA	Solid	8021B	17925
880-10688-7	SW-31 14'-19'	Total/NA	Solid	8021B	17925
880-10688-8	BH-14A	Total/NA	Solid	8021B	17925
880-10688-9	BH-18A	Total/NA	Solid	8021B	17925
880-10688-10	BH-19A	Total/NA	Solid	8021B	17925
MB 880-17873/5-A	Method Blank	Total/NA	Solid	8021B	17873
MB 880-17925/5-A	Method Blank	Total/NA	Solid	8021B	17925
LCS 880-17925/1-A	Lab Control Sample	Total/NA	Solid	8021B	17925
LCSD 880-17925/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	17925

**Prep Batch: 17873**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-17873/5-A	Method Blank	Total/NA	Solid	5035	

**Prep Batch: 17925**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10688-1	BH-15A	Total/NA	Solid	5035	
880-10688-2	BH-16A	Total/NA	Solid	5035	
880-10688-4	SW-28 14'-19'	Total/NA	Solid	5035	
880-10688-5	SW-29 14'-19'	Total/NA	Solid	5035	
880-10688-6	SW-30 14'-19'	Total/NA	Solid	5035	
880-10688-7	SW-31 14'-19'	Total/NA	Solid	5035	
880-10688-8	BH-14A	Total/NA	Solid	5035	
880-10688-9	BH-18A	Total/NA	Solid	5035	
880-10688-10	BH-19A	Total/NA	Solid	5035	
MB 880-17925/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-17925/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-17925/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

**Prep Batch: 18098**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10688-3	BH-17A	Total/NA	Solid	5035	
MB 880-18098/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-18098/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-18098/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

**Analysis Batch: 18100**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10688-3	BH-17A	Total/NA	Solid	8021B	18098
MB 880-18098/5-A	Method Blank	Total/NA	Solid	8021B	18098
LCS 880-18098/1-A	Lab Control Sample	Total/NA	Solid	8021B	18098
LCSD 880-18098/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	18098

**Analysis Batch: 18172**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10688-1	BH-15A	Total/NA	Solid	Total BTEX	
880-10688-2	BH-16A	Total/NA	Solid	Total BTEX	

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## QC Association Summary

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10688-1  
SDG: Eddy County, NM

### GC VOA (Continued)

#### Analysis Batch: 18172 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10688-3	BH-17A	Total/NA	Solid	Total BTEX	

#### Analysis Batch: 18428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10688-4	SW-28 14'-19'	Total/NA	Solid	Total BTEX	
880-10688-5	SW-29 14'-19'	Total/NA	Solid	Total BTEX	
880-10688-6	SW-30 14'-19'	Total/NA	Solid	Total BTEX	
880-10688-7	SW-31 14'-19'	Total/NA	Solid	Total BTEX	
880-10688-8	BH-14A	Total/NA	Solid	Total BTEX	
880-10688-9	BH-18A	Total/NA	Solid	Total BTEX	
880-10688-10	BH-19A	Total/NA	Solid	Total BTEX	

### GC Semi VOA

#### Analysis Batch: 17977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10688-1	BH-15A	Total/NA	Solid	8015B NM	18062
880-10688-2	BH-16A	Total/NA	Solid	8015B NM	18062
880-10688-3	BH-17A	Total/NA	Solid	8015B NM	18062
MB 880-18062/1-A	Method Blank	Total/NA	Solid	8015B NM	18062
LCS 880-18062/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	18062
LCSD 880-18062/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	18062

#### Prep Batch: 18062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10688-1	BH-15A	Total/NA	Solid	8015NM Prep	
880-10688-2	BH-16A	Total/NA	Solid	8015NM Prep	
880-10688-3	BH-17A	Total/NA	Solid	8015NM Prep	
MB 880-18062/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-18062/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-18062/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

#### Analysis Batch: 18115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10688-4	SW-28 14'-19'	Total/NA	Solid	8015B NM	18131
880-10688-5	SW-29 14'-19'	Total/NA	Solid	8015B NM	18131
880-10688-6	SW-30 14'-19'	Total/NA	Solid	8015B NM	18131
880-10688-7	SW-31 14'-19'	Total/NA	Solid	8015B NM	18131
880-10688-8	BH-14A	Total/NA	Solid	8015B NM	18131
880-10688-9	BH-18A	Total/NA	Solid	8015B NM	18131
880-10688-10	BH-19A	Total/NA	Solid	8015B NM	18131
MB 880-18131/1-A	Method Blank	Total/NA	Solid	8015B NM	18131
LCS 880-18131/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	18131
LCSD 880-18131/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	18131

#### Prep Batch: 18131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10688-4	SW-28 14'-19'	Total/NA	Solid	8015NM Prep	
880-10688-5	SW-29 14'-19'	Total/NA	Solid	8015NM Prep	
880-10688-6	SW-30 14'-19'	Total/NA	Solid	8015NM Prep	
880-10688-7	SW-31 14'-19'	Total/NA	Solid	8015NM Prep	

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**QC Association Summary**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10688-1  
SDG: Eddy County, NM

**GC Semi VOA (Continued)****Prep Batch: 18131 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10688-8	BH-14A	Total/NA	Solid	8015NM Prep	
880-10688-9	BH-18A	Total/NA	Solid	8015NM Prep	
880-10688-10	BH-19A	Total/NA	Solid	8015NM Prep	
MB 880-18131/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-18131/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-18131/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

**Analysis Batch: 18170**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10688-1	BH-15A	Total/NA	Solid	8015 NM	
880-10688-2	BH-16A	Total/NA	Solid	8015 NM	
880-10688-3	BH-17A	Total/NA	Solid	8015 NM	
880-10688-4	SW-28 14'-19'	Total/NA	Solid	8015 NM	
880-10688-5	SW-29 14'-19'	Total/NA	Solid	8015 NM	
880-10688-6	SW-30 14'-19'	Total/NA	Solid	8015 NM	
880-10688-7	SW-31 14'-19'	Total/NA	Solid	8015 NM	
880-10688-8	BH-14A	Total/NA	Solid	8015 NM	
880-10688-9	BH-18A	Total/NA	Solid	8015 NM	
880-10688-10	BH-19A	Total/NA	Solid	8015 NM	

**HPLC/IC****Leach Batch: 18023**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10688-1	BH-15A	Soluble	Solid	DI Leach	
880-10688-2	BH-16A	Soluble	Solid	DI Leach	
880-10688-3	BH-17A	Soluble	Solid	DI Leach	
MB 880-18023/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-18023/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-18023/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

**Leach Batch: 18091**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10688-4	SW-28 14'-19'	Soluble	Solid	DI Leach	
880-10688-5	SW-29 14'-19'	Soluble	Solid	DI Leach	
880-10688-6	SW-30 14'-19'	Soluble	Solid	DI Leach	
MB 880-18091/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-18091/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-18091/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

**Analysis Batch: 18093**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10688-1	BH-15A	Soluble	Solid	300.0	18023
880-10688-2	BH-16A	Soluble	Solid	300.0	18023
880-10688-3	BH-17A	Soluble	Solid	300.0	18023
MB 880-18023/1-A	Method Blank	Soluble	Solid	300.0	18023
LCS 880-18023/2-A	Lab Control Sample	Soluble	Solid	300.0	18023
LCSD 880-18023/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	18023

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**QC Association Summary**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10688-1  
SDG: Eddy County, NM

**HPLC/IC****Analysis Batch: 18196**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10688-4	SW-28 14'-19'	Soluble	Solid	300.0	18091
880-10688-5	SW-29 14'-19'	Soluble	Solid	300.0	18091
880-10688-6	SW-30 14'-19'	Soluble	Solid	300.0	18091
MB 880-18091/1-A	Method Blank	Soluble	Solid	300.0	18091
LCS 880-18091/2-A	Lab Control Sample	Soluble	Solid	300.0	18091
LCSD 880-18091/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	18091

**Leach Batch: 18269**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10688-7	SW-31 14'-19'	Soluble	Solid	DI Leach	9
880-10688-8	BH-14A	Soluble	Solid	DI Leach	
880-10688-9	BH-18A	Soluble	Solid	DI Leach	
880-10688-10	BH-19A	Soluble	Solid	DI Leach	
MB 880-18269/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-18269/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-18269/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

**Analysis Batch: 18297**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10688-7	SW-31 14'-19'	Soluble	Solid	300.0	18269
880-10688-8	BH-14A	Soluble	Solid	300.0	18269
880-10688-9	BH-18A	Soluble	Solid	300.0	18269
880-10688-10	BH-19A	Soluble	Solid	300.0	18269
MB 880-18269/1-A	Method Blank	Soluble	Solid	300.0	18269
LCS 880-18269/2-A	Lab Control Sample	Soluble	Solid	300.0	18269
LCSD 880-18269/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	18269

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**Lab Chronicle**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10688-1  
SDG: Eddy County, NM

**Client Sample ID: BH-15A**  
Date Collected: 01/27/22 14:10  
Date Received: 01/28/22 07:29

**Lab Sample ID: 880-10688-1**  
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			4.95 g	5 mL	17925	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17866	01/29/22 02:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			18172	01/31/22 13:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18062	01/28/22 14:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17977	01/29/22 05:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	18023	01/28/22 10:13	CH	XEN MID
Soluble	Analysis	300.0		1			18093	01/30/22 21:29	CH	XEN MID

**Client Sample ID: BH-16A**  
Date Collected: 01/27/22 14:20  
Date Received: 01/28/22 07:29

**Lab Sample ID: 880-10688-2**  
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			5.00 g	5 mL	17925	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17866	01/29/22 03:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			18172	01/31/22 13:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	18062	01/28/22 14:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17977	01/29/22 06:06	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	18023	01/28/22 10:13	CH	XEN MID
Soluble	Analysis	300.0		1			18093	01/30/22 21:36	CH	XEN MID

**Client Sample ID: BH-17A**  
Date Collected: 01/27/22 14:30  
Date Received: 01/28/22 07:29

**Lab Sample ID: 880-10688-3**  
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			5.05 g	5 mL	18098	01/31/22 07:24	KL	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	18100	01/31/22 14:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18172	01/31/22 13:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18062	01/28/22 14:42	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17977	01/29/22 06:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	18023	01/28/22 10:13	CH	XEN MID
Soluble	Analysis	300.0		1			18093	01/30/22 21:59	CH	XEN MID

**Client Sample ID: SW-28 14'-19'**  
Date Collected: 01/27/22 13:20  
Date Received: 01/28/22 07:29

**Lab Sample ID: 880-10688-4**  
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			5.05 g	5 mL	17925	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17866	01/29/22 04:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			18428	02/03/22 13:55	KL	XEN MID

Eurofins Midland

**Lab Chronicle**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10688-1  
SDG: Eddy County, NM

**Client Sample ID: SW-28 14'-19'**  
Date Collected: 01/27/22 13:20  
Date Received: 01/28/22 07:29

**Lab Sample ID: 880-10688-4**  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	18131	01/31/22 09:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18115	02/01/22 00:47	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	18091	01/29/22 10:41	CH	XEN MID
Soluble	Analysis	300.0		1			18196	01/31/22 16:13	CH	XEN MID

**Client Sample ID: SW-29 14'-19'**  
Date Collected: 01/27/22 13:30  
Date Received: 01/28/22 07:29

**Lab Sample ID: 880-10688-5**  
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	17925	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17866	01/29/22 04:45	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			18428	02/03/22 13:55	KL	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18131	01/31/22 09:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18115	02/01/22 01:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	18091	01/29/22 10:41	CH	XEN MID
Soluble	Analysis	300.0		1			18196	01/31/22 16:21	CH	XEN MID

**Client Sample ID: SW-30 14'-19'**  
Date Collected: 01/27/22 13:40  
Date Received: 01/28/22 07:29

**Lab Sample ID: 880-10688-6**  
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	17925	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17866	01/29/22 05:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			18428	02/03/22 13:55	KL	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	18131	01/31/22 09:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18115	02/01/22 01:29	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	18091	01/29/22 10:41	CH	XEN MID
Soluble	Analysis	300.0		1			18196	01/31/22 16:28	CH	XEN MID

**Client Sample ID: SW-31 14'-19'**  
Date Collected: 01/27/22 13:50  
Date Received: 01/28/22 07:29

**Lab Sample ID: 880-10688-7**  
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			5.00 g	5 mL	17925	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17866	01/29/22 05:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			18428	02/03/22 13:55	KL	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	18131	01/31/22 09:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18115	02/01/22 02:10	AJ	XEN MID

Eurofins Midland

**Lab Chronicle**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10688-1  
SDG: Eddy County, NM

**Client Sample ID: SW-31 14'-19'**

**Lab Sample ID: 880-10688-7**

**Matrix: Solid**

Date Collected: 01/27/22 13:50

Date Received: 01/28/22 07:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	18269	02/01/22 14:22	SC	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	18297	02/01/22 16:48	SC	XEN MID

**Client Sample ID: BH-14A**

**Lab Sample ID: 880-10688-8**

**Matrix: Solid**

Date Collected: 01/27/22 14:00

Date Received: 01/28/22 07:29

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	17925	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17866	01/29/22 06:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			18428	02/03/22 13:55	KL	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	18131	01/31/22 09:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18115	02/01/22 02:30	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	18269	02/01/22 14:22	SC	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	18297	02/01/22 16:55	SC	XEN MID

**Client Sample ID: BH-18A**

**Lab Sample ID: 880-10688-9**

**Matrix: Solid**

Date Collected: 01/27/22 14:40

Date Received: 01/28/22 07:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	17925	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17866	01/29/22 06:34	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			18428	02/03/22 13:55	KL	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	18131	01/31/22 09:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18115	02/01/22 02:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	18269	02/01/22 14:22	SC	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	18297	02/01/22 17:03	SC	XEN MID

**Client Sample ID: BH-19A**

**Lab Sample ID: 880-10688-10**

**Matrix: Solid**

Date Collected: 01/27/22 14:50

Date Received: 01/28/22 07:29

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	17925	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17866	01/29/22 07:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			18428	02/03/22 13:55	KL	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	18131	01/31/22 09:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18115	02/01/22 03:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	18269	02/01/22 14:22	SC	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	18297	02/01/22 17:13	SC	XEN MID

Eurofins Midland

**Lab Chronicle**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10688-1  
SDG: Eddy County, NM

**Laboratory References:**

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

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Eurofins Midland

## Accreditation/Certification Summary

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10688-1  
SDG: Eddy County, NM

### 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

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Eurofins Midland

## Method Summary

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-10688-1  
SDG: Eddy County, NM

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

Eurofins Midland

**Sample Summary**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-10688-1  
 SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-10688-1	BH-15A	Solid	01/27/22 14:10	01/28/22 07:29
880-10688-2	BH-16A	Solid	01/27/22 14:20	01/28/22 07:29
880-10688-3	BH-17A	Solid	01/27/22 14:30	01/28/22 07:29
880-10688-4	SW-28 14'-19'	Solid	01/27/22 13:20	01/28/22 07:29
880-10688-5	SW-29 14'-19'	Solid	01/27/22 13:30	01/28/22 07:29
880-10688-6	SW-30 14'-19'	Solid	01/27/22 13:40	01/28/22 07:29
880-10688-7	SW-31 14'-19'	Solid	01/27/22 13:50	01/28/22 07:29
880-10688-8	BH-14A	Solid	01/27/22 14:00	01/28/22 07:29
880-10688-9	BH-18A	Solid	01/27/22 14:40	01/28/22 07:29
880-10688-10	BH-19A	Solid	01/27/22 14:50	01/28/22 07:29

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Re: RR #103118, 11/1/01

880-10688 Chain of Clusters

12600 West I-20 East  
Odessa, Texas 79765

Phone: 432-563-1800  
Fax: 432-563-1713

Phone: 432 563 1800  
Fax: 432-563-1713

## Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 880-10688-1  
SDG Number: Eddy County, NM**Login Number:** 10688**List Source:** Eurofins Midland**List Number:** 1**Creator:** Teel, Brianna

Question	Answer	Comment	
The cooler's custody seal, if present, is intact.	N/A		1
Sample custody seals, if present, are intact.	N/A		2
The cooler or samples do not appear to have been compromised or tampered with.	True		3
Samples were received on ice.	True		4
Cooler Temperature is acceptable.	True		5
Cooler Temperature is recorded.	True		6
COC is present.	True		7
COC is filled out in ink and legible.	True		8
COC is filled out with all pertinent information.	True		9
Is the Field Sampler's name present on COC?	True		10
There are no discrepancies between the containers received and the COC.	True		11
Samples are received within Holding Time (excluding tests with immediate HTs)	True		12
Sample containers have legible labels.	True		13
Containers are not broken or leaking.	True		14
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		



Environment Testing  
America



## ANALYTICAL REPORT

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

Laboratory Job ID: 880-11158-1

Laboratory Sample Delivery Group: Eddy County, NM  
Client Project/Site: Snapping Pumps

For:  
GHD Services Inc.  
2135 South Loop 250 West  
Midland, Texas 79703

Attn: Becky Haskell

Authorized for release by:  
2/22/2022 2:28:42 PM

Debbie Simmons, Project Manager  
(832)986-6768  
[debbie.simmons@eurofinset.com](mailto:debbie.simmons@eurofinset.com)

### LINKS

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The  
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[www.eurofinsus.com/Env](http://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.

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Laboratory Job ID: 880-11158-1  
 SDG: Eddy County, NM

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## Definitions/Glossary

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-11158-1  
SDG: Eddy County, NM

### Qualifiers

#### GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

#### GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low 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.

□	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: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-11158-1  
SDG: Eddy County, NM

**Job ID: 880-11158-1****Laboratory: Eurofins Midland****Narrative****Job Narrative  
880-11158-1****Receipt**

The samples were received on 2/10/2022 11:55 AM. 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 time was 3.3°C

**GC VOA**

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

**GC Semi VOA**

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: SP-1 (880-11158-2), SP-3 (880-11158-4), (MB 880-19122/1-A), (MB 880-19128/1-A), (880-11151-A-1-G), (880-11151-A-1-H MS), (880-11151-A-1-I MSD), (880-11191-A-1-A), (880-11191-A-1-B MS) and (880-11191-A-1-C MSD). 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.

**HPLC/IC**

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

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**Client Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-11158-1  
SDG: Eddy County, NM

**Client Sample ID: TP1-26**  
Date Collected: 02/09/22 08:50  
Date Received: 02/10/22 11:55  
Sample Depth: 26"

**Lab Sample ID: 880-11158-1**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0769	J	0.202	0.0388	mg/Kg		02/18/22 08:00	02/19/22 03:51	100
Toluene	5.46		0.202	0.0460	mg/Kg		02/18/22 08:00	02/19/22 03:51	100
Ethylbenzene	2.52		0.202	0.0570	mg/Kg		02/18/22 08:00	02/19/22 03:51	100
m-Xylene & p-Xylene	24.2		0.403	0.102	mg/Kg		02/18/22 08:00	02/19/22 03:51	100
o-Xylene	6.49		0.202	0.0347	mg/Kg		02/18/22 08:00	02/19/22 03:51	100
Xylenes, Total	30.7		0.403	0.102	mg/Kg		02/18/22 08:00	02/19/22 03:51	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	02/18/22 08:00	02/19/22 03:51	100
1,4-Difluorobenzene (Surr)	85		70 - 130	02/18/22 08:00	02/19/22 03:51	100

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	38.7		0.403	0.102	mg/Kg			02/15/22 20:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3830		50.0	15.0	mg/Kg			02/17/22 15:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1480		50.0	15.0	mg/Kg		02/11/22 11:24	02/13/22 02:09	1
Diesel Range Organics (Over C10-C28)	2350	B	50.0	15.0	mg/Kg		02/11/22 11:24	02/13/22 02:09	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		02/11/22 11:24	02/13/22 02:09	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	79		70 - 130	02/11/22 11:24	02/13/22 02:09	1			
o-Terphenyl	71		70 - 130	02/11/22 11:24	02/13/22 02:09	1			

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.8		5.01	0.860	mg/Kg			02/16/22 02:44	1

**Client Sample ID: SP-1**

Date Collected: 02/09/22 09:30  
Date Received: 02/10/22 11:55

**Lab Sample ID: 880-11158-2**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00578		0.00200	0.000384	mg/Kg		02/11/22 16:00	02/12/22 11:53	1
Toluene	0.125		0.00200	0.000455	mg/Kg		02/11/22 16:00	02/12/22 11:53	1
Ethylbenzene	0.0245		0.00200	0.000564	mg/Kg		02/11/22 16:00	02/12/22 11:53	1
m-Xylene & p-Xylene	0.308		0.00399	0.00101	mg/Kg		02/11/22 16:00	02/12/22 11:53	1
o-Xylene	0.0970		0.00200	0.000343	mg/Kg		02/11/22 16:00	02/12/22 11:53	1
Xylenes, Total	0.405		0.00399	0.00101	mg/Kg		02/11/22 16:00	02/12/22 11:53	1
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	107		70 - 130	02/11/22 16:00	02/12/22 11:53	1			
1,4-Difluorobenzene (Surr)	118		70 - 130	02/11/22 16:00	02/12/22 11:53	1			

Eurofins Midland

# Client Sample Results

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-11158-1  
SDG: Eddy County, NM

**Client Sample ID: SP-1**

Date Collected: 02/09/22 09:30  
Date Received: 02/10/22 11:55

**Lab Sample ID: 880-11158-2**

Matrix: Solid

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.559		0.00399	0.00101	mg/Kg			02/14/22 09:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1710		50.0	15.0	mg/Kg			02/17/22 15:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	27.0	J	50.0	15.0	mg/Kg		02/11/22 11:24	02/13/22 02:29	1
Diesel Range Organics (Over C10-C28)	1680	B	50.0	15.0	mg/Kg		02/11/22 11:24	02/13/22 02:29	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		02/11/22 11:24	02/13/22 02:29	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	67	S1-	70 - 130				02/11/22 11:24	02/13/22 02:29	1
<i>o</i> -Terphenyl	77		70 - 130				02/11/22 11:24	02/13/22 02:29	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.7		4.98	0.855	mg/Kg			02/16/22 02:50	1

**Client Sample ID: SP-2**

Date Collected: 02/09/22 09:35  
Date Received: 02/10/22 11:55

**Lab Sample ID: 880-11158-3**

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000476	J	0.00200	0.000386	mg/Kg		02/11/22 16:00	02/12/22 12:14	1
Toluene	0.0209		0.00200	0.000457	mg/Kg		02/11/22 16:00	02/12/22 12:14	1
Ethylbenzene	0.00195	J	0.00200	0.000566	mg/Kg		02/11/22 16:00	02/12/22 12:14	1
m-Xylene & p-Xylene	0.0375		0.00401	0.00101	mg/Kg		02/11/22 16:00	02/12/22 12:14	1
<i>o</i> -Xylene	0.0131		0.00200	0.000345	mg/Kg		02/11/22 16:00	02/12/22 12:14	1
Xylenes, Total	0.0506		0.00401	0.00101	mg/Kg		02/11/22 16:00	02/12/22 12:14	1

**Surrogate**

%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surf)	121	70 - 130	02/11/22 16:00	02/12/22 12:14	1
1,4-Difluorobenzene (Surf)	104	70 - 130	02/11/22 16:00	02/12/22 12:14	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0736		0.00401	0.00101	mg/Kg			02/14/22 09:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	112		50.0	15.0	mg/Kg			02/17/22 15:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	29.4	J	50.0	15.0	mg/Kg		02/11/22 11:24	02/13/22 02:49	1
Diesel Range Organics (Over C10-C28)	82.2	B	50.0	15.0	mg/Kg		02/11/22 11:24	02/13/22 02:49	1

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# Client Sample Results

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-11158-1  
SDG: Eddy County, NM

**Client Sample ID: SP-2**

Date Collected: 02/09/22 09:35  
Date Received: 02/10/22 11:55

**Lab Sample ID: 880-11158-3**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	D	02/11/22 11:24	02/13/22 02:49	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	70		70 - 130				02/11/22 11:24	02/13/22 02:49	1
<i>o-Terphenyl</i>	80		70 - 130				02/11/22 11:24	02/13/22 02:49	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.9		5.04	0.865	mg/Kg	D		02/16/22 02:57	1

**Client Sample ID: SP-3**

Date Collected: 02/09/22 09:40  
Date Received: 02/10/22 11:55

**Lab Sample ID: 880-11158-4**  
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000381	U	0.00198	0.000381	mg/Kg	D	02/11/22 16:00	02/12/22 12:34	1
Toluene	0.00623		0.00198	0.000451	mg/Kg		02/11/22 16:00	02/12/22 12:34	1
Ethylbenzene	0.000995	J	0.00198	0.000559	mg/Kg		02/11/22 16:00	02/12/22 12:34	1
m-Xylene & p-Xylene	0.0128		0.00396	0.00100	mg/Kg		02/11/22 16:00	02/12/22 12:34	1
<i>o-Xylene</i>	0.00337		0.00198	0.000341	mg/Kg		02/11/22 16:00	02/12/22 12:34	1
Xylenes, Total	0.0162		0.00396	0.00100	mg/Kg		02/11/22 16:00	02/12/22 12:34	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	107		70 - 130				02/11/22 16:00	02/12/22 12:34	1
1,4-Difluorobenzene (Surr)	109		70 - 130				02/11/22 16:00	02/12/22 12:34	1

**Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0233		0.00396	0.00100	mg/Kg	D		02/14/22 09:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	17.6	J	49.9	15.0	mg/Kg	D		02/17/22 15:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Gasoline Range Organics (GRO)-C6-C10</b>	<b>17.6</b>	<b>J</b>	49.9	15.0	mg/Kg	D	02/11/22 10:14	02/12/22 17:37	1
Diesel Range Organics (Over C10-C28)	<15.0	U	49.9	15.0	mg/Kg		02/11/22 10:14	02/12/22 17:37	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		02/11/22 10:14	02/12/22 17:37	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1-Chlorooctane	63	S1-	70 - 130				02/11/22 10:14	02/12/22 17:37	1
<i>o-Terphenyl</i>	74		70 - 130				02/11/22 10:14	02/12/22 17:37	1

**Method: 300.0 - Anions, Ion Chromatography - Soluble**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.9		4.99	0.857	mg/Kg	D		02/16/22 03:03	1

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## Surrogate Summary

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-11158-1  
SDG: Eddy County, NM

### 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)	
880-11158-1	TP1-26	99	85	
880-11158-2	SP-1	107	118	
880-11158-3	SP-2	121	104	
880-11158-4	SP-3	107	109	
LCS 880-19036/1-A	Lab Control Sample	93	106	
LCS 880-19233/1-A	Lab Control Sample	94	105	
LCS 880-19658/1-A	Lab Control Sample	117	95	
LCS 880-19696/1-A	Lab Control Sample	112	99	
LCS 880-19707/1-A	Lab Control Sample	108	98	
LCSD 880-19036/2-A	Lab Control Sample Dup	97	88	
LCSD 880-19233/2-A	Lab Control Sample Dup	98	103	
LCSD 880-19658/2-A	Lab Control Sample Dup	121	106	
LCSD 880-19696/2-A	Lab Control Sample Dup	113	91	
LCSD 880-19707/2-A	Lab Control Sample Dup	109	96	
MB 880-19035/5-A	Method Blank	89	100	
MB 880-19036/5-A	Method Blank	104	104	
MB 880-19233/5-A	Method Blank	105	101	
MB 880-19658/5-A	Method Blank	128	97	
MB 880-19696/5-A	Method Blank	116	89	
MB 880-19707/5-A	Method Blank	119	98	

#### 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)	
880-11158-1	TP1-26	79	71	
880-11158-2	SP-1	67 S1-	77	
880-11158-3	SP-2	70	80	
880-11158-4	SP-3	63 S1-	74	
LCS 880-19122/2-A	Lab Control Sample	90	95	
LCS 880-19128/2-A	Lab Control Sample	99	107	
LCSD 880-19122/3-A	Lab Control Sample Dup	94	100	
LCSD 880-19128/3-A	Lab Control Sample Dup	94	100	
MB 880-19122/1-A	Method Blank	65 S1-	81	
MB 880-19128/1-A	Method Blank	63 S1-	75	

#### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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**QC Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-11158-1  
SDG: Eddy County, NM

**Method: 8021B - Volatile Organic Compounds (GC)****Lab Sample ID: MB 880-19035/5-A****Matrix: Solid****Analysis Batch: 19116****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 19035**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		02/11/22 11:13	02/11/22 22:14	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		02/11/22 11:13	02/11/22 22:14	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		02/11/22 11:13	02/11/22 22:14	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		02/11/22 11:13	02/11/22 22:14	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		02/11/22 11:13	02/11/22 22:14	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		02/11/22 11:13	02/11/22 22:14	1

**MB MB**

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	89		70 - 130	02/11/22 11:13	02/11/22 22:14	1
1,4-Difluorobenzene (Surr)	100		70 - 130	02/11/22 11:13	02/11/22 22:14	1

**Lab Sample ID: MB 880-19036/5-A****Matrix: Solid****Analysis Batch: 19116****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 19036**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		02/11/22 16:00	02/12/22 09:09	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		02/11/22 16:00	02/12/22 09:09	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		02/11/22 16:00	02/12/22 09:09	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		02/11/22 16:00	02/12/22 09:09	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		02/11/22 16:00	02/12/22 09:09	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		02/11/22 16:00	02/12/22 09:09	1

**MB MB**

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	104		70 - 130	02/11/22 16:00	02/12/22 09:09	1
1,4-Difluorobenzene (Surr)	104		70 - 130	02/11/22 16:00	02/12/22 09:09	1

**Lab Sample ID: LCS 880-19036/1-A****Matrix: Solid****Analysis Batch: 19116****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 19036**

Analyte	Spike	LCS	LCS	Unit	D	%Rec.	Limits
	Added	Result	Qualifier				
Benzene	0.100	0.09249		mg/Kg		92	70 - 130
Toluene	0.100	0.09207		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.09926		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.1837		mg/Kg		92	70 - 130
o-Xylene	0.100	0.09006		mg/Kg		90	70 - 130

**LCS LCS**

Surrogate	LCS	LCS	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	93		70 - 130	02/11/22 16:00	02/12/22 09:09	1
1,4-Difluorobenzene (Surr)	106		70 - 130	02/11/22 16:00	02/12/22 09:09	1

**Lab Sample ID: LCSD 880-19036/2-A****Matrix: Solid****Analysis Batch: 19116****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 19036**

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec.	RPD
	Added	Result	Qualifier				
Benzene	0.100	0.08701		mg/Kg		87	6

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**QC Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-11158-1  
SDG: Eddy County, NM

**Method: 8021B - Volatile Organic Compounds (GC) (Continued)****Lab Sample ID: LCSD 880-19036/2-A****Matrix: Solid****Analysis Batch: 19116****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 19036**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Toluene	0.100	0.08975		mg/Kg		90	70 - 130	3	35
Ethylbenzene	0.100	0.09948		mg/Kg		99	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.1868		mg/Kg		93	70 - 130	2	35
o-Xylene	0.100	0.09313		mg/Kg		93	70 - 130	3	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

**Lab Sample ID: MB 880-19233/5-A****Matrix: Solid****Analysis Batch: 19287****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 19233**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		02/14/22 07:30	02/14/22 10:45	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		02/14/22 07:30	02/14/22 10:45	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		02/14/22 07:30	02/14/22 10:45	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		02/14/22 07:30	02/14/22 10:45	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		02/14/22 07:30	02/14/22 10:45	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		02/14/22 07:30	02/14/22 10:45	1

Surrogate	MB		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

**Lab Sample ID: LCS 880-19233/1-A****Matrix: Solid****Analysis Batch: 19287****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 19233**

Analyte	Spike		LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
	Added	Result						
Benzene	0.100	0.08139		mg/Kg		81	70 - 130	
Toluene	0.100	0.08280		mg/Kg		83	70 - 130	
Ethylbenzene	0.100	0.08810		mg/Kg		88	70 - 130	
m-Xylene & p-Xylene	0.200	0.1790		mg/Kg		90	70 - 130	
o-Xylene	0.100	0.09153		mg/Kg		92	70 - 130	

Surrogate	LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

**Lab Sample ID: LCSD 880-19233/2-A****Matrix: Solid****Analysis Batch: 19287****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 19233**

Analyte	Spike		LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
	Added	Result								
Benzene	0.100	0.08548		mg/Kg		85	70 - 130	5	35	
Toluene	0.100	0.08704		mg/Kg		87	70 - 130	5	35	
Ethylbenzene	0.100	0.09599		mg/Kg		96	70 - 130	9	35	

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**QC Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-11158-1  
SDG: Eddy County, NM

**Method: 8021B - Volatile Organic Compounds (GC) (Continued)****Lab Sample ID: LCSD 880-19233/2-A****Matrix: Solid****Analysis Batch: 19287****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 19233**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m-Xylene & p-Xylene	0.200	0.1918		mg/Kg	96	70 - 130	7	35	
o-Xylene	0.100	0.09502		mg/Kg	95	70 - 130	4	35	

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

**Lab Sample ID: MB 880-19658/5-A****Matrix: Solid****Analysis Batch: 19659****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 19658**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		02/17/22 08:20	02/17/22 11:45	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		02/17/22 08:20	02/17/22 11:45	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		02/17/22 08:20	02/17/22 11:45	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		02/17/22 08:20	02/17/22 11:45	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		02/17/22 08:20	02/17/22 11:45	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		02/17/22 08:20	02/17/22 11:45	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

**Lab Sample ID: LCS 880-19658/1-A****Matrix: Solid****Analysis Batch: 19659****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 19658**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08334		mg/Kg		83	70 - 130
Toluene	0.100	0.08855		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.1017		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.1866		mg/Kg		93	70 - 130
o-Xylene	0.100	0.09302		mg/Kg		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

**Lab Sample ID: LCSD 880-19658/2-A****Matrix: Solid****Analysis Batch: 19659****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 19658**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08866		mg/Kg		89	70 - 130	6	35
Toluene	0.100	0.09804		mg/Kg		98	70 - 130	10	35
Ethylbenzene	0.100	0.1063		mg/Kg		106	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2051		mg/Kg		103	70 - 130	9	35
o-Xylene	0.100	0.09797		mg/Kg		98	70 - 130	5	35

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**QC Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-11158-1  
SDG: Eddy County, NM

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

<b>Surrogate</b>	<b>LCSD</b> <b>%Recovery</b>	<b>LCSD</b> <b>Qualifier</b>	<b>Limits</b>
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

**Lab Sample ID: MB 880-19696/5-A****Matrix: Solid****Analysis Batch: 19783****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 19696**

<b>Analyte</b>	<b>MB</b> <b>Result</b>	<b>MB</b> <b>Qualifier</b>	<b>RL</b>	<b>MDL</b>	<b>Unit</b>	<b>D</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		02/18/22 07:00	02/18/22 12:41	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		02/18/22 07:00	02/18/22 12:41	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		02/18/22 07:00	02/18/22 12:41	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		02/18/22 07:00	02/18/22 12:41	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		02/18/22 07:00	02/18/22 12:41	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		02/18/22 07:00	02/18/22 12:41	1

**MB MB**

<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene (Surr)	116		70 - 130	02/18/22 07:00	02/18/22 12:41	1
1,4-Difluorobenzene (Surr)	89		70 - 130	02/18/22 07:00	02/18/22 12:41	1

**Lab Sample ID: LCS 880-19696/1-A****Matrix: Solid****Analysis Batch: 19783****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 19696**

<b>Analyte</b>		<b>Spike</b>	<b>LCS</b> <b>Result</b>	<b>LCS</b> <b>Qualifier</b>	<b>Unit</b>	<b>D</b>	<b>%Rec.</b>	<b>Limits</b>
		<b>Added</b>						
Benzene		0.100	0.09002		mg/Kg		90	70 - 130
Toluene		0.100	0.09048		mg/Kg		90	70 - 130
Ethylbenzene		0.100	0.1034		mg/Kg		103	70 - 130
m-Xylene & p-Xylene		0.200	0.1884		mg/Kg		94	70 - 130
o-Xylene		0.100	0.09890		mg/Kg		99	70 - 130

**LCS LCS**

<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

**Lab Sample ID: LCSD 880-19696/2-A****Matrix: Solid****Analysis Batch: 19783****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 19696**

<b>Analyte</b>		<b>Spike</b>	<b>LCSD</b> <b>Result</b>	<b>LCSD</b> <b>Qualifier</b>	<b>Unit</b>	<b>D</b>	<b>%Rec.</b>	<b>RPD</b>	<b>Limit</b>	
		<b>Added</b>								
Benzene		0.100	0.08948		mg/Kg		89	70 - 130	1	35
Toluene		0.100	0.09333		mg/Kg		93	70 - 130	3	35
Ethylbenzene		0.100	0.1044		mg/Kg		104	70 - 130	1	35
m-Xylene & p-Xylene		0.200	0.1926		mg/Kg		96	70 - 130	2	35
o-Xylene		0.100	0.09354		mg/Kg		94	70 - 130	6	35

**LCSD LCSD**

<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

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**QC Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-11158-1  
SDG: Eddy County, NM

**Method: 8021B - Volatile Organic Compounds (GC) (Continued)****Lab Sample ID: MB 880-19707/5-A****Matrix: Solid****Analysis Batch: 19783**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		02/18/22 08:00	02/19/22 00:17	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		02/18/22 08:00	02/19/22 00:17	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		02/18/22 08:00	02/19/22 00:17	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		02/18/22 08:00	02/19/22 00:17	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		02/18/22 08:00	02/19/22 00:17	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		02/18/22 08:00	02/19/22 00:17	1

**Surrogate MB MB**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	02/18/22 08:00	02/19/22 00:17	1
1,4-Difluorobenzene (Surr)	98		70 - 130	02/18/22 08:00	02/19/22 00:17	1

**Lab Sample ID: LCS 880-19707/1-A****Matrix: Solid****Analysis Batch: 19783**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
	Added	Result	Qualifier					
Benzene	0.100	0.08860		mg/Kg		89	70 - 130	
Toluene	0.100	0.1018		mg/Kg		102	70 - 130	
Ethylbenzene	0.100	0.09205		mg/Kg		92	70 - 130	
m-Xylene & p-Xylene	0.200	0.1862		mg/Kg		93	70 - 130	
o-Xylene	0.100	0.08996		mg/Kg		90	70 - 130	

**Surrogate LCS LCS**

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

**Lab Sample ID: LCSD 880-19707/2-A****Matrix: Solid****Analysis Batch: 19783**

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD
	Added	Result	Qualifier					
Benzene	0.100	0.08442		mg/Kg		84	70 - 130	5
Toluene	0.100	0.09326		mg/Kg		93	70 - 130	9
Ethylbenzene	0.100	0.09408		mg/Kg		94	70 - 130	2
m-Xylene & p-Xylene	0.200	0.1842		mg/Kg		92	70 - 130	1
o-Xylene	0.100	0.08941		mg/Kg		89	70 - 130	1

**Surrogate LCSD LCSD**

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

**Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 19707****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 19707**

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**QC Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-11158-1  
SDG: Eddy County, NM

**Method: 8015B NM - Diesel Range Organics (DRO) (GC)****Lab Sample ID: MB 880-19122/1-A****Matrix: Solid****Analysis Batch: 19227****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 19122**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0	15.0	mg/Kg				1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		02/11/22 10:14	02/12/22 10:33	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		02/11/22 10:14	02/12/22 10:33	1

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
1-Chlorooctane	65	S1-	70 - 130			02/11/22 10:14	02/12/22 10:33	1
o-Terphenyl	81		70 - 130			02/11/22 10:14	02/12/22 10:33	1

**Lab Sample ID: LCS 880-19122/2-A****Matrix: Solid****Analysis Batch: 19227****Client Sample ID: Lab Control Sample****Prep Type: Total/NA****Prep Batch: 19122**

Analyte	MB	MB	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
	%Recovery	Qualifier							
Gasoline Range Organics (GRO)-C6-C10			1000	849.9		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)			1000	872.9		mg/Kg		87	70 - 130

Surrogate	LCSD	LCSD	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits
	%Recovery	Qualifier							
1-Chlorooctane	90		70 - 130						
o-Terphenyl	95		70 - 130						

**Lab Sample ID: LCSD 880-19122/3-A****Matrix: Solid****Analysis Batch: 19227****Client Sample ID: Lab Control Sample Dup****Prep Type: Total/NA****Prep Batch: 19122**

Analyte	MB	MB	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD RPD Limit
	%Recovery	Qualifier								
Gasoline Range Organics (GRO)-C6-C10			1000	927.2		mg/Kg		93	70 - 130	9 20
Diesel Range Organics (Over C10-C28)			1000	956.0		mg/Kg		96	70 - 130	9 20

Surrogate	LCSD	LCSD	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD RPD Limit
	%Recovery	Qualifier								
1-Chlorooctane	94		70 - 130							
o-Terphenyl	100		70 - 130							

**Lab Sample ID: MB 880-19128/1-A****Matrix: Solid****Analysis Batch: 19227****Client Sample ID: Method Blank****Prep Type: Total/NA****Prep Batch: 19128**

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier									
Gasoline Range Organics (GRO)-C6-C10	<15.0	U	50.0		15.0	mg/Kg			02/11/22 11:24	02/12/22 20:10	1
Diesel Range Organics (Over C10-C28)	15.23	J	50.0		15.0	mg/Kg			02/11/22 11:24	02/12/22 20:10	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0		15.0	mg/Kg			02/11/22 11:24	02/12/22 20:10	1

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**QC Sample Results**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-11158-1  
SDG: Eddy County, NM

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

Lab Sample ID: MB 880-19128/1-A

Matrix: Solid

Analysis Batch: 19227

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19128

Surrogate	MB	MB	%Recovery	Qualifier	Limits
1-Chlorooctane			63	S1-	70 - 130
o-Terphenyl			75		70 - 130

Prepared 02/11/22 11:24   Analyzed 02/12/22 20:10   Dil Fac 1  
02/11/22 11:24   02/12/22 20:10   1

Lab Sample ID: LCS 880-19128/2-A

Matrix: Solid

Analysis Batch: 19227

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 19128

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10		1000	917.8		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)		1000	989.6		mg/Kg		99	70 - 130

Surrogate	LC	LC	%Recovery	Qualifier	Limits
1-Chlorooctane	99				70 - 130
o-Terphenyl	107				70 - 130

Lab Sample ID: LCSD 880-19128/3-A

Matrix: Solid

Analysis Batch: 19227

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 19128

Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10		1000	809.7		mg/Kg		81	70 - 130	13	20
Diesel Range Organics (Over C10-C28)		1000	863.2		mg/Kg		86	70 - 130	14	20

Surrogate	LC	LC	%Recovery	Qualifier	Limits
1-Chlorooctane	94				70 - 130
o-Terphenyl	100				70 - 130

**Method: 300.0 - Anions, Ion Chromatography**

Lab Sample ID: MB 880-19069/1-A

Matrix: Solid

Analysis Batch: 19488

Client Sample ID: Method Blank  
Prep Type: Soluble

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride			<0.858	U	5.00	0.858	mg/Kg			02/16/22 02:07	1

Lab Sample ID: LCS 880-19069/2-A

Matrix: Solid

Analysis Batch: 19488

Client Sample ID: Lab Control Sample  
Prep Type: Soluble

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride		250	260.0		mg/Kg		104	90 - 110

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**QC Sample Results**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-11158-1  
 SDG: Eddy County, NM

**Method: 300.0 - Anions, Ion Chromatography (Continued)**

Lab Sample ID: LCSD 880-19069/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 19488

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	240.1		mg/Kg		96	90 - 110	8	20

1

2

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## QC Association Summary

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-11158-1  
SDG: Eddy County, NM

### GC VOA

#### Prep Batch: 19035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-19035/5-A	Method Blank	Total/NA	Solid	5035	

#### Prep Batch: 19036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11158-2	SP-1	Total/NA	Solid	5035	
880-11158-3	SP-2	Total/NA	Solid	5035	
880-11158-4	SP-3	Total/NA	Solid	5035	
MB 880-19036/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-19036/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-19036/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

#### Analysis Batch: 19116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11158-2	SP-1	Total/NA	Solid	8021B	19036
880-11158-3	SP-2	Total/NA	Solid	8021B	19036
880-11158-4	SP-3	Total/NA	Solid	8021B	19036
MB 880-19035/5-A	Method Blank	Total/NA	Solid	8021B	19035
MB 880-19036/5-A	Method Blank	Total/NA	Solid	8021B	19036
LCS 880-19036/1-A	Lab Control Sample	Total/NA	Solid	8021B	19036
LCSD 880-19036/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	19036

#### Prep Batch: 19233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-19233/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-19233/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-19233/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

#### Analysis Batch: 19287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-19233/5-A	Method Blank	Total/NA	Solid	8021B	19233
LCS 880-19233/1-A	Lab Control Sample	Total/NA	Solid	8021B	19233
LCSD 880-19233/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	19233

#### Analysis Batch: 19350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11158-2	SP-1	Total/NA	Solid	Total BTEX	
880-11158-3	SP-2	Total/NA	Solid	Total BTEX	
880-11158-4	SP-3	Total/NA	Solid	Total BTEX	

#### Analysis Batch: 19539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11158-1	TP1-26	Total/NA	Solid	Total BTEX	

#### Prep Batch: 19658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-19658/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-19658/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-19658/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

**QC Association Summary**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-11158-1  
SDG: Eddy County, NM

**GC VOA****Analysis Batch: 19659**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-19658/5-A	Method Blank	Total/NA	Solid	8021B	19658
LCS 880-19658/1-A	Lab Control Sample	Total/NA	Solid	8021B	19658
LCSD 880-19658/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	19658

**Prep Batch: 19696**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-19696/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-19696/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-19696/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

**Prep Batch: 19707**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11158-1	TP1-26	Total/NA	Solid	5035	
MB 880-19707/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-19707/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-19707/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

**Analysis Batch: 19783**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11158-1	TP1-26	Total/NA	Solid	8021B	19707
MB 880-19696/5-A	Method Blank	Total/NA	Solid	8021B	19696
MB 880-19707/5-A	Method Blank	Total/NA	Solid	8021B	19707
LCS 880-19696/1-A	Lab Control Sample	Total/NA	Solid	8021B	19696
LCS 880-19707/1-A	Lab Control Sample	Total/NA	Solid	8021B	19707
LCSD 880-19696/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	19696
LCSD 880-19707/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	19707

**GC Semi VOA****Prep Batch: 19122**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11158-4	SP-3	Total/NA	Solid	8015NM Prep	
MB 880-19122/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-19122/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-19122/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

**Prep Batch: 19128**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11158-1	TP1-26	Total/NA	Solid	8015NM Prep	
880-11158-2	SP-1	Total/NA	Solid	8015NM Prep	
880-11158-3	SP-2	Total/NA	Solid	8015NM Prep	
MB 880-19128/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-19128/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-19128/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

**Analysis Batch: 19227**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11158-1	TP1-26	Total/NA	Solid	8015B NM	19128
880-11158-2	SP-1	Total/NA	Solid	8015B NM	19128
880-11158-3	SP-2	Total/NA	Solid	8015B NM	19128
880-11158-4	SP-3	Total/NA	Solid	8015B NM	19122

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**QC Association Summary**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-11158-1  
 SDG: Eddy County, NM

**GC Semi VOA (Continued)****Analysis Batch: 19227 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-19122/1-A	Method Blank	Total/NA	Solid	8015B NM	19122
MB 880-19128/1-A	Method Blank	Total/NA	Solid	8015B NM	19128
LCS 880-19122/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	19122
LCS 880-19128/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	19128
LCSD 880-19122/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	19122
LCSD 880-19128/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	19128

**Analysis Batch: 19741**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11158-1	TP1-26	Total/NA	Solid	8015 NM	
880-11158-2	SP-1	Total/NA	Solid	8015 NM	
880-11158-3	SP-2	Total/NA	Solid	8015 NM	
880-11158-4	SP-3	Total/NA	Solid	8015 NM	

**HPLC/IC****Leach Batch: 19069**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11158-1	TP1-26	Soluble	Solid	DI Leach	
880-11158-2	SP-1	Soluble	Solid	DI Leach	
880-11158-3	SP-2	Soluble	Solid	DI Leach	
880-11158-4	SP-3	Soluble	Solid	DI Leach	
MB 880-19069/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-19069/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-19069/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

**Analysis Batch: 19488**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11158-1	TP1-26	Soluble	Solid	300.0	19069
880-11158-2	SP-1	Soluble	Solid	300.0	19069
880-11158-3	SP-2	Soluble	Solid	300.0	19069
880-11158-4	SP-3	Soluble	Solid	300.0	19069
MB 880-19069/1-A	Method Blank	Soluble	Solid	300.0	19069
LCS 880-19069/2-A	Lab Control Sample	Soluble	Solid	300.0	19069
LCSD 880-19069/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	19069

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**Lab Chronicle**

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-11158-1  
SDG: Eddy County, NM

**Client Sample ID: TP1-26**  
Date Collected: 02/09/22 08:50  
Date Received: 02/10/22 11:55

**Lab Sample ID: 880-11158-1**  
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			4.96 g	5 mL	19707	02/18/22 08:00	KL	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	19783	02/19/22 03:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			19539	02/15/22 20:33	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			19741	02/17/22 15:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	19128	02/11/22 11:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19227	02/13/22 02:09	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	19069	02/10/22 15:46	CH	XEN MID
Soluble	Analysis	300.0		1			19488	02/16/22 02:44	CH	XEN MID

**Client Sample ID: SP-1**

Date Collected: 02/09/22 09:30  
Date Received: 02/10/22 11:55

**Lab Sample ID: 880-11158-2**  
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			5.01 g	5 mL	19036	02/11/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19116	02/12/22 11:53	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19350	02/14/22 09:43	KL	XEN MID
Total/NA	Analysis	8015 NM		1			19741	02/17/22 15:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19128	02/11/22 11:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19227	02/13/22 02:29	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	19069	02/10/22 15:46	CH	XEN MID
Soluble	Analysis	300.0		1			19488	02/16/22 02:50	CH	XEN MID

**Client Sample ID: SP-2**

Date Collected: 02/09/22 09:35  
Date Received: 02/10/22 11:55

**Lab Sample ID: 880-11158-3**  
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			4.99 g	5 mL	19036	02/11/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19116	02/12/22 12:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19350	02/14/22 09:43	KL	XEN MID
Total/NA	Analysis	8015 NM		1			19741	02/17/22 15:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19128	02/11/22 11:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19227	02/13/22 02:49	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	19069	02/10/22 15:46	CH	XEN MID
Soluble	Analysis	300.0		1			19488	02/16/22 02:57	CH	XEN MID

**Client Sample ID: SP-3**

Date Collected: 02/09/22 09:40  
Date Received: 02/10/22 11:55

**Lab Sample ID: 880-11158-4**  
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			5.05 g	5 mL	19036	02/11/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19116	02/12/22 12:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19350	02/14/22 09:43	KL	XEN MID

Eurofins Midland

**Lab Chronicle**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-11158-1  
 SDG: Eddy County, NM

**Client Sample ID: SP-3****Date Collected: 02/09/22 09:40****Date Received: 02/10/22 11:55****Lab Sample ID: 880-11158-4****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			19741	02/17/22 15:56	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	19122	02/11/22 10:14	DM	XEN MID
Total/NA	Analysis	8015B NM		1			19227	02/12/22 17:37	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	19069	02/10/22 15:46	CH	XEN MID
Soluble	Analysis	300.0		1			19488	02/16/22 03:03	CH	XEN MID

**Laboratory References:**

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

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Eurofins Midland

## Accreditation/Certification Summary

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-11158-1  
SDG: Eddy County, NM

### 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

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Eurofins Midland

## Method Summary

Client: GHD Services Inc.  
Project/Site: Snapping Pumps

Job ID: 880-11158-1  
SDG: Eddy County, NM

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

Eurofins Midland

**Sample Summary**

Client: GHD Services Inc.  
 Project/Site: Snapping Pumps

Job ID: 880-11158-1  
 SDG: Eddy County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-11158-1	TP1-26	Solid	02/09/22 08:50	02/10/22 11:55	26"
880-11158-2	SP-1	Solid	02/09/22 09:30	02/10/22 11:55	
880-11158-3	SP-2	Solid	02/09/22 09:35	02/10/22 11:55	
880-11158-4	SP-3	Solid	02/09/22 09:40	02/10/22 11:55	

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**GeoLabs Environmental Lab of Texas**

**GeoLabs Laboratories**  
12800 West I-20 East  
Odessa, Texas 79765

Project Manager: Becky.Haskell@GHD.com

Company Name: GHD

Company Address: 2135 S. Loop 280 W.

City/State/Zip: Midland, TX 79703

Telephone No: (432) 686-0086

Fax No:

Sampler Signature: RS

e-mail: "Becky"  
CJBryant@PACLP.com

Fax No:

Report Format:

Standard

TRRP

NPDES

PO #:

Eddy County, NM

Project Name: Snapping Traps

Project #: 12565619

Phone: 432-563-1800

Fax: 432-563-1713

Analyze For:

TCP:

TOTAL:

## Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 880-11158-1  
SDG Number: Eddy County, NM**Login Number: 11158****List Source: Eurofins Midland****List Number: 1****Creator: Rodriguez, Leticia**

Question	Answer	Comment	
The cooler's custody seal, if present, is intact.	N/A		1
Sample custody seals, if present, are intact.	N/A		2
The cooler or samples do not appear to have been compromised or tampered with.	True		3
Samples were received on ice.	True		4
Cooler Temperature is acceptable.	True		5
Cooler Temperature is recorded.	True		6
COC is present.	True		7
COC is filled out in ink and legible.	True		8
COC is filled out with all pertinent information.	True		9
Is the Field Sampler's name present on COC?	True		10
There are no discrepancies between the containers received and the COC.	True		11
Samples are received within Holding Time (excluding tests with immediate HTs)	True		12
Sample containers have legible labels.	True		13
Containers are not broken or leaking.	True		14
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		

**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 96068

**CONDITIONS**

Operator:  PLAINS MARKETING L.P. 333 Clay Street Suite 1900 Houston, TX 77002	OGRID: 34053
	Action Number: 96068
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved. Please provide subsequent Remediation Plan or Closure Report in 90 days. If you require additional time, please submit an extension request with valid reasoning.	4/20/2022