

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

QUESTIONS

Action 135707

QUESTIONS

Operator: 3 Bear Energy-Cottonwood, LLC 7102 Commerce Way Brentwood, TN 37027	OGRID: 330291
	Action Number: 135707
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source <i>Please answer all of the questions in this group.</i>	
Site Name	McElvain Pad 30
Date Release Discovered	08/18/2022
Surface Owner	Federal

Incident Details <i>Please answer all of the questions in this group.</i>	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release <i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Fitting Produced Water Released: 50 BBL Recovered: 0 BBL Lost: 50 BBL]
Is the concentration of dissolved chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 135707

QUESTIONS (continued)

Operator: 3 Bear Energy-Cottonwood, LLC 7102 Commerce Way Brentwood, TN 37027	OGRID: 330291
	Action Number: 135707
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by 19.15.29.7(A) NMAC	Yes, major release.
Reasons why this would be considered a submission for a notification of a major release	Unauthorized release of a volume, excluding gases, of 25 barrels or more
If YES, was immediate notice given to the OCD, by whom	Cassie Whitefield
If YES, was immediate notice given to the OCD, to whom	Mike Bratcher
If YES, was immediate notice given to the OCD, when	08/18/2022
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	Phone
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

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	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

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 prepare and attach a narrative of actions to date in the follow-up C-141 submission. 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 prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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ACKNOWLEDGMENTS

Action 135707

ACKNOWLEDGMENTS

Operator: 3 Bear Energy-Cottonwood, LLC 7102 Commerce Way Brentwood, TN 37027	OGRID: 330291
	Action Number: 135707
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

☒	I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.
☒	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
☒	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
☒	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.
☒	I acknowledge the fact that 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.
☒	I acknowledge the fact that, 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.

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CONDITIONS

Action 135707

CONDITIONS

Operator: 3 Bear Energy-Cottonwood, LLC 7102 Commerce Way Brentwood, TN 37027	OGRID: 330291
	Action Number: 135707
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
cassiewhitefield	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	8/18/2022

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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	NAPP2223063600
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Delek Logistics	OGRID
Contact Name Cassie Whitefield	Contact Telephone 870-310-9078
Contact email cassie.whitefield@deleklogistics.com	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude 32.711667 Longitude -103.593944
(NAD 83 in decimal degrees to 5 decimal places)

Site Name McElvain	Site Type LACT
Date Release Discovered 8/18/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
P	30	18S	34E	Lea

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: BLM)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 60	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Corrosion

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2223063600
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Volume of the release is greater than 25 barrels
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Cassie Whitefield notified Mike Bratcher (OCD) by phone on August 18, 2022. Notice also reported via OCD portal.	

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 <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Cassie Whitefield</u>	Title: <u>SR EHS Manager</u>
Signature: <u></u>	Date: <u>11/30/22</u>
email: <u>cassie.whitefield@deleklogistics.com</u>	Telephone: <u>870-310-9078</u>
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>09/2/2022</u>
<u>Jocelyn Harimon</u>	<u>09/2/2022</u>

Incident ID	nAPP 2223063600
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>UNK</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

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

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ 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.

Received by OCD: 9/2/2022 7:34:17 AM
Form C-141

State of New Mexico

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Oil Conservation Division

Incident ID	nAPP 2223063600
District RP	
Facility ID	
Application ID	

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: Cassie Whitefield Title: Sr EHS ManagerSignature: [Signature] Date: 11/30/22email: Cassie.whitefield@deleklogistics.com Telephone: 870-310-9078**OCD Only**Received by: Jocelyn Harimon Date: 12/01/2022

Incident ID	nAPP 2223063600
District RP	
Facility ID	
Application ID	

Remediation Plan

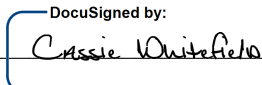
Remediation Plan Checklist: Each of the following items must be included in the plan.

- ☐ 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: Cassie Whitefield Title: Senior EHS Manager
Signature:  Date: 6/1/2023
email: cassie.whitefield@derecklogistics.com Telephone: 870-310-9078

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Incident ID	nAPP 2223063600
District RP	
Facility ID	
Application ID	

Closure

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

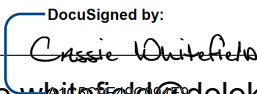
Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

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

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

Printed Name: Cassie Whitefield

Title: Senior EHS Manager

Signature: 

Date: 6/1/2023

email: cassie.whitefield@deleklogistics.com

Telephone: 870-310-9078

OCD Only

Received by: _____

Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____

Title: _____

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

Our Ref.: 12592305-NMOCD-2

June 21, 2023

New Mexico Oil Conservation Division
District 1
1625 N. French Drive
Hobbs, New Mexico 88240

Site Closure Report
Delek McElvain LACT Release Site
3 Bear Energy-Cottonwood, LLC
Incident Identification: nAPP2223063600
P-30-18S-34E, Lea County, New Mexico

1. Introduction

GHD Services Inc. (GHD), on behalf of 3 Bear Energy-Cottonwood, LLC, which is owned and operated by Delek Logistics Partners, LP (Delek), submits this Site Closure Report to the New Mexico Oil Conservation Division (NMOCD) District 1 Office. This Report provides documentation of remediation activities and analyses in the affected area at the Delek McElvain LACT Release Site (Site). The Site is located in Unit Letter P Section 30 of Township 18 South and Range 34 East in Lea County, New Mexico. The Global Positioning System (GPS) coordinates for the release Site are 32.711667 N latitude and 103.593944 W longitude. The release occurred on federal land owned by the Bureau of Land Management (BLM). Figure 1 depicts the Site location. The Site and other details are depicted on Figures 2A and 2B.

2. Background Information

A C-141, Release Notification form, for this release was submitted to the NMOCD on September 1, 2022. The C-141 form stated that 50 barrels (bbls) of produced water was released on August 18, 2022. Equipment within the LACT unit appeared to be corroded leading to equipment failure and ultimately a release. After discussions between field personnel and environmental staff, Delek decided to file a C-141 form for this release location.

The release falls under the jurisdiction of the NMOCD District 1 Office in Hobbs, New Mexico. The NMOCD assigned the release with Incident Number nAPP2223063600. The Release Notification and Site Assessment/Characterization 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 1, 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 19.15.29.12.C(4)(a)(i), the Site is located within an area of low karst potential. No groundwater data could be located within one-half mile of the Site. Therefore, GHD and Harrison and Cooper, Inc. (HCI) mobilized to the Site on December 7, 2022 and installed a depth to water (DTW) boring to an approximate depth of 52 feet below ground surface (bgs). The DTW boring was left open for 72 hours and gauged with a water level meter. No groundwater was detected in the boring and the boring was subsequently plugged and abandoned. No other receptors (water wells, playas, wetlands, waterways, lakebeds, or ordinance boundaries) were located within each specific boundaries or distance from the Site. The Site characterization documentation (Karst Potential, Federal Emergency Management Agency (FEMA), Points of Diversion, and Wetlands maps) are provided in Attachment A. The soil boring log is included as Attachment B. The soil and closure criteria are listed below.

Table 1 General Site Characterization and Groundwater Information

Site Characterization	Average Groundwater Depth (ft)
No Receptors Found	51-100

Table 2 Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29.12)

Regulatory Standard	Chloride (mg/kg)	TPH (GRO+DRO) (mg/kg)	TPH (GRO+DRO+MRO) (mg/kg)	BTEX (mg/kg)	Benzene (mg/kg)
19.15.29.13 Restoration, Reclamation and Re-Vegetation (Impacted Area 0-4 feet)	600	--	100	50	10
19.15.29.12 NMAC Table I Closure Criteria for Soils Impacted by a Release	10,000	1,000	2,500	50	10

4. Soil Remediation Activities

4.1 Initial Remedial Excavation

Upon discovery of the release, Delek initiated immediate excavation activities. On August 25, 2022, GHD mobilized to the Site and collected soil samples at depths ranging from surface to six (6) feet below ground surface (bgs). Hall Environmental Analysis Laboratory (HEAL), Albuquerque, New Mexico analyzed all soil samples for benzene, toluene, ethylbenzene, and xylene (BTEX) by the United States Environmental Protection Agency (EPA) SW846 Method 8021B, total petroleum hydrocarbons (TPH) by EPA SW846 Method 8015B Modified, and chloride by EPA Methods For Chemical Analysis of Water and Wastes (MCAWW) Method 300.0.

Seven (7) of the twelve (12) test pits had samples exceeding applicable NMAC Table I Closure Criteria for groundwater less than fifty (50) feet: South Center-West Wall Wide, North Center-West Wall Wide, North

Center-East Wall Wide, North Bottom, North East Wall, and North West Wall. Analytical results and sample locations are provided in the Site Characterization and Remediation Work Plan, dated November 30, 2022.

Due to the initial soil sampling activities exhibiting chloride concentrations above Table I Closure Criteria, GHD and Frontier Development mobilized to the site on September 19, 2022, to further excavate the affected soils. On September 21 and 22, 2022, two (2) sidewalls (North East Wall and North West Wall) and seven (7) bottom holes (North Bottoms 2-8) composite confirmation soil samples were collected. Bottom hole and sidewall composite confirmation samples represented areas no greater than 200 square feet. All soil samples were taken to HEAL in Albuquerque, New Mexico and analyzed for BTEX by EPA SW846 Method 8021B, TPH by EPA SW846 Method 8015B Modified, and chloride by EPA MCAWW Method 300.0. Analytical and field screening results indicated one (1) sidewall and seven (7) bottom hole confirmation samples exhibited chloride concentrations above NMAC 19.15.29.12 Closure Criteria. Analytical results, field screening results, and sample locations are provided in the Site Characterization and Remediation Work Plan, dated November 30, 2022.

4.2 Vertical Delineation and Depth to Water Determination

As previously discussed, GHD and HCI mobilized to the Site on December 7, 2022, to install a DTW boring to an approximate depth of 52 feet bgs. Nine (9) 2-foot interval samples were collected every 3 feet beginning at the 5-feet to 7-feet interval to the total depth. Samples were submitted to Eurofins Environmental Testing America (Eurofins), located in Albuquerque, New Mexico and analyzed for BTEX by EPA SW846 Method 8021B, TPH by EPA SW846 Method 8015B Modified, and chloride by EPA MCAWW Method 300.0. Analytical results indicated none of the soil samples exhibited benzene, BTEX, TPH, or chloride concentrations above NMAC Table I Closure Criteria. The analytical results are summarized in Table 1. The soil boring log is included as Attachment B. The laboratory analytical report and chain of custody (COC) are attached as Attachment C.

4.3 Additional Excavation, Waste Management, and Confirmation Sampling

Due to initial confirmation samples exhibiting chloride concentrations above Table I Closure Criteria, GHD and Frontier Development, Inc. (Frontier) mobilized to the Site on February 16, 2023, to continue excavation activities on the affected area of the Site. Excavation activities continued through April 14, 2023. Excavation depths ranged from approximately three (3) feet to twenty-five (25) feet bgs. Between February 16 and April 14, 2023, sixty-four (64) bottom hole and seventy-six (76) sidewall composite confirmation samples were collected. Bottom hole and sidewall composite confirmation samples represented areas no greater than 200 square feet. Samples were submitted to Eurofins Environmental Testing America (Eurofins), located in Midland, Texas and analyzed for BTEX by EPA SW846 Method 8021B, TPH by EPA SW846 Method 8015B Modified, and chloride by EPA MCAWW Method 300.0.

Analytical results indicated one (1) bottom hole and twenty-five (25) sidewall composite confirmation samples exhibited chloride and/or TPH concentrations above Table I Closure Criteria. Samples BH-5, SW-6, SW-27, SW-28, SW-30, SW-31, SW-33, SW-37 through SW-41, and SW-43 through SW-45 exhibited chloride concentrations over Table I Closure Criteria for soils within the surface to four (4) feet bgs. Samples SW-28 and SW-37 also exhibited TPH concentrations above Table I Closure Criteria for soils within the surface to (four) 4 feet bgs. Samples SW-35, SW-47, and SW-49 through SW-57 exhibited chloride above Table I Closure Criteria for soils 51-100 feet depth to groundwater. Sample locations are shown on Figure 2A and 2B. Analytical results are summarized on Table 1 and in the Laboratory Analytical Reports included as Attachment C.

Due to confirmation samples exhibiting chloride concentrations above Table I Closure criteria, GHD and Frontier returned to the Site on March 15, 2023, to further excavate and resample. GHD collected one (1) bottom hole and eleven (11) sidewall composite confirmation samples. Bottom hole and sidewall composite confirmation samples represented areas no greater than 200 square feet. The area around BH-5 was

deepened from 3 feet to 3.5 feet bgs and resampled (BH-5A). The sidewalls where SW-6, SW-27, SW-28, SW-30, SW-31, SW-35, SW-37 through SW-41, and SW-43 through SW-45 were collected on February 16, 2023, were further excavated and resampled as SW-6A and SW-61 through SW-73, respectively. Samples were submitted to Eurofins Environmental Testing America (Eurofins), located in Midland, Texas and analyzed for BTEX by EPA SW846 Method 8021B, TPH by EPA SW846 Method 8015B Modified, and chloride by EPA MCAWW Method 300.0.

Analytical results indicated none of the composite confirmation samples exhibited benzene, BTEX, TPH, or chloride concentrations above Table I Closure Criteria. Sample locations are shown on Figure 2A and 2B. Analytical results are summarized on Table 1 and in the Laboratory Analytical Reports included as Attachment C.

GHD and Frontier returned to the Site on April 14, 2023, to collect additional confirmation samples. GHD collected twenty-two (22) bottom holes (BH-42 through BH-63) and two (2) additional sidewalls (SW-74 and SW-75) composite confirmation samples. Bottom hole and sidewall composite confirmation samples represented areas no greater than 200 square feet.

Analytical results indicated none of the composite confirmation samples exhibited benzene, BTEX, TPH, or chloride concentrations above Table I Closure Criteria. Sample locations are shown on Figure 2A and 2B. Analytical results are summarized on Table 1 and in the Laboratory Analytical Reports included as Attachment C. A photographic log is included as Attachment D. Sampling notifications are included as Attachment E.

4.4 Waste Management and Site Restoration Activities

Waste management activities were performed in coordination with Delek directives. Frontier obtained regulatory approval via the successful processing of Form C-138 Request for Approval to Accept Solid Waste. The waste was approved for acceptance at the OCD-permitted (NM1-006), R360 Halfway Facility located at 6601 Hobbs Hwy US 62/180 Mile Marker 66, Carlsbad, New Mexico 88220. Approximately 2,530 cubic yards of impacted soils were removed from the remedial excavation and disposed of. The approved C-138 and waste manifests are available upon request but are not attached due to the size of the file. A summary of soil disposal information is included in Table 2.

The excavation will be backfilled to a depth of four (4) feet bgs at which point a twenty (20) millimeter polyethylene liner will be placed over top of any remaining chloride impacts prior to completing backfill to surface. The placed liner will help impede further migration of chlorides in the vadose zone. The excavation will be backfilled with non-impacted soil imported to the Site from a locally sourced caliche and topsoil pit and compacted with heavy tracked equipment. Once the liner is placed and backfilling complete, GHD will prepare and submit an addendum to this report with photos depicting the backfilled excavation.

5. nAPP2223063600 Deferral and Closure Request

Site characterization, soil delineation, and remediation activities for Incident nAPP2223063600 have been performed in accordance with applicable OCD guidance and regulations. GHD, on behalf of Delek, requests deferral of the remediation of chloride impacted soils immediately surrounding LACT Unit represented by soil samples SW-47 and SW-49 through SW-57 due to equipment structural stability concerns. These areas will be remediated when the oil and gas production equipment is removed from the Site during Site decommissioning. Based upon supporting documentation provided in this report, GHD, on behalf of Delek, respectfully requests closure of nAPP2223063600.

If you have any questions or comments concerning this Site Closure Report, please do not hesitate to contact our GHD Midland office at (432) 686-0086.

Regards,



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JTM/mss/2

Encl. Table 1 – Summary of Soil Analytical Data
 Table 2 – Summary of Waste Management Information
 Figure 1 – Site Location Map
 Figure 2A – Confirmation Sampling Locations Map – North
 Figure 2B – Confirmation Sampling Locations Map – South
 Attachment A – Site Characterization/Assessment Documentation
 Attachment B – Soil Boring Log
 Attachment C – Laboratory Analytical Reports and Chain-of-Custody Documentation
 Attachment D – Photographic Log
 Attachment E – Sampling Notifications

Table 1
Summary of Soil Analytical Data
Delek McElvain
Lea County, New Mexico

SAMPLE ID	SAMPLE DATE	DEPTH (feet bgs)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	BTEX (mg/kg)	TPH					CHLORIDE (Lab) (mg/kg)	CHLORIDE (Field Screening) (mg/kg)							
								GRO (C6-C10) (mg/kg)	DRO (C10-C28) (mg/kg)	MRO (C28-C35) (mg/kg)	TPH (GRO+DRO) (mg/kg)	TOTAL (GRO+DRO+MRO) (mg/kg)									
								Table I Closure Criteria for Soils 19.15.29 NMAC (Surface to 4 Feet Below Grade)													
								10	---	---	---	50			---	---	---	---	100	600	600
								Table I Closure Criteria for Soils 51-100 feet Depth to Groundwater 19.15.29 NMAC													
10	---	---	---	50	---	---	---	1,000	2,500	10,000	10,000										
Initial Assessment Samples																					
South Bottom	8/25/22	Surface	< 0.023	< 0.047	< 0.047	< 0.093	< 0.093	< 4.7	< 13	< 44	< 13	< 44	170	188							
South West Wall	8/25/22	Surface	< 0.023	< 0.047	< 0.047	< 0.093	< 0.093	< 4.7	< 14	< 48	< 14	< 48	< 60	< 45							
South East Wall	8/25/22	Surface	< 0.024	< 0.048	< 0.048	< 0.096	< 0.096	< 4.8	< 14	< 47	< 14	< 47	< 60	< 45							
South Center - Bottom 6'	8/25/22	6'	< 0.024	< 0.048	< 0.048	< 0.096	< 0.096	< 4.8	< 13	< 44	< 13	< 44	< 60	< 45							
South Center - East Wall	8/25/22	3.5'	< 0.023	< 0.046	< 0.046	< 0.092	< 0.092	< 4.6	< 15	< 49	< 15	< 49	< 61	< 45							
South Center - West Wall Wide	8/25/22	4'	< 0.024	< 0.048	< 0.048	< 0.095	< 0.095	< 4.8	< 14	< 46	< 14	< 46	< 50	17,312							
North Center - Bottom 6'	8/25/22	6'	< 0.024	< 0.049	< 0.049	< 0.098	< 0.098	< 4.9	< 14	< 48	< 14	< 48	930	260							
North Center - West Wall Wide	8/25/22	Surface	< 0.024	< 0.048	< 0.048	< 0.097	< 0.097	< 4.8	< 15	< 49	< 15	< 49	< 60	2,400							
North Center - East Wall Wide	8/25/22	Surface	< 0.024	< 0.047	< 0.047	< 0.095	< 0.095	< 4.7	< 15	< 50	< 15	< 50	< 60	24,580							
North Bottom	8/25/22	Surface	< 0.024	< 0.048	< 0.048	< 0.097	< 0.097	< 4.8	< 13	< 44	< 13	< 44	17,000	1,772							
North Bottom (2)	9/21/22	5'	-	-	-	-	-	-	-	-	-	-	-	4,850							
North Bottom (3)	9/21/22	7'	-	-	-	-	-	-	-	-	-	-	-	8,930							
North Bottom (4)	9/21/22	9'	-	-	-	-	-	-	-	-	-	-	-	940							
North Bottom (5)	9/21/22	11'	-	-	-	-	-	-	-	-	-	-	-	11,090							
North Bottom (6)	9/21/22	15'	-	-	-	-	-	-	-	-	-	-	-	8,430							
North Bottom (7)	9/21/22	20'	-	-	-	-	-	-	-	-	-	-	-	8,660							
North Bottom (8)	9/22/22	25'	-	-	-	-	-	-	-	-	-	-	-	4,880							
North East Wall	8/25/22	Surface	< 0.023	< 0.046	< 0.046	< 0.091	< 0.091	< 4.6	< 15	< 50	< 15	< 50	10,000	-							
North East Wall (2)	9/21/22	5'	-	-	-	-	-	-	-	-	-	-	-	7,980							
North West Wall	8/25/22	Surface	< 0.024	< 0.047	< 0.047	< 0.094	< 0.094	< 4.7	< 14	< 45	< 14	< 45	21,000	< 45							
North West Wall (2)	9/21/22	0'-6'	-	-	-	-	-	-	-	-	-	-	-	150							
Soil Boring Samples																					
SB-1-(1)	12/07/22	5-7'	<0.000387 U	0.000459 U	<0.000568 U	<0.00102 U	<0.00102 U	21.2 J B	23.2 J *1	<15.0 U	44.4 J B *1	54.4	30.7	--							
SB-1-(2)	12/07/22	10-12'	<0.000389 U	0.000461 U	<0.000571 U	<0.00102 U	<0.00102 U	23.8 J B	66.4 *1	<15.0 U	90.2 J B *1	90.2	36.7	--							
SB-1-(3)	12/07/22	15-17'	<0.000384 U	0.000455 U	<0.000564 U	<0.00101 U	<0.00101 U	30.0 J	<15.0 U *1	<15.0 U	30.0 J	30.0 J	28.0	--							
SB-1-(4)	12/07/22	20-22'	<0.000381 U	0.000451 U	<0.000559 U	<0.00100 U	<0.00100 U	20.6 J B	<15.0 U *1	<15.0 U	20.6 J B	20.6 J	39.5	--							
SB-1-(5)	12/07/22	25-27'	<0.000386 U	0.000457 U	<0.000566 U	<0.00101 U	<0.00101 U	29.9 J B	<15.0 U *1	<15.0 U	29.9 J B	29.9 J	3,460	--							
SB-1-(6)	12/07/22	30-32'	<0.000383 U	0.000453 U	<0.000562 U	<0.00100 U	<0.00100 U	27.7 J B	<15.0 U *1	<15.0 U	27.7 J B	27.7 J	1,310	--							
SB-1-(7)	12/07/22	35-37'	<0.000384 U	0.000455 U	<0.000564 U	<0.00101 U	<0.00101 U	34.6 J B	<15.0 U *1	<15.0 U	34.6 J B	34.6 J	117	--							
SB-1-(8)	12/07/22	40-42'	<0.000383 U	0.000454 U	<0.000563 U	<0.00101 U	<0.00101 U	26.1 J B	21.1 J *1	<15.0 U	47.2 J B *1	47.2 J	127	--							
SB-1-(9)	12/07/22	50-52'	<0.000384 U	0.000455 U	<0.000564 U	<0.00101 U	<0.00101 U	31.2 J B	<15.0 U *1	<15.0 U	31.2 J B	31.2 J	78.1	--							

Table 1
Summary of Soil Analytical Data
Delek McElvain
Lea County, New Mexico

SAMPLE ID	SAMPLE DATE	DEPTH (feet bgs)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	BTEX (mg/kg)	TPH					CHLORIDE (Lab) (mg/kg)	CHLORIDE (Field Screening) (mg/kg)
								GRO (C6-C10) (mg/kg)	DRO (C10-C28) (mg/kg)	MRO (C28-C35) (mg/kg)	TPH (GRO+DRO) (mg/kg)	TOTAL (GRO+DRO+MRO) (mg/kg)		
10	---	---	---	50	---	---	---	---	100	600	600			
Table I Closure Criteria for Soils 51-100 feet Depth to Groundwater 19.15.29 NMAC														
10	---	---	---	50	---	---	---	1,000	2,500	10,000	10,000			
Bottom Hole Confirmation Samples														
BH-1	02/16/23	3'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	66.3	--
BH-2	02/16/23	3'	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	422	--
BH-3	02/16/23	3'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	180	--
BH-4	02/16/23	3'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	312	--
BH-5	02/16/23	3'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	52.1	<49.9	52.1	52.1	964	--
BH-5A	03/15/23	3.5'	<0.00200	<0.00200	<0.00200	<0.00104	<0.00104	<49.9	<49.9	<49.9	<49.9	<49.9	59.6	--
BH-6	02/16/23	3'	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	70.0	--
BH-7	02/16/23	3'	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	26.4	--
BH-8	02/16/23	6'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	11.4	--
BH-9	02/16/23	6'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	<4.95	--
BH-10	02/16/23	6'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	7.09	--
BH-11	02/16/23	6'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	24.4	--
BH-12	02/16/23	6'	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	17.3	--
BH-13	02/16/23	6'	<0.00200	0.00215	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	73.0	--
BH-14	02/16/23	6'	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	36.3	--
BH-15	02/16/23	6'	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	52.7	--
BH-16	02/16/23	6'	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	7.31	--
BH-17	02/16/23	6'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	5.23	--
BH-18	02/16/23	6'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	8.18	--
BH-19	02/16/23	6'	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	5.98	--
BH-20	02/16/23	6'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	741	--
BH-21	02/16/23	6'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9 *-	<49.9	<49.9	<49.9	<49.9	19.5	--
BH-22	02/16/23	6'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0 *-	<50.0	<50.0	<50.0	<50.0	7.02	--
BH-23	02/16/23	6'	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0 *-	<50.0	<50.0	<50.0	<50.0	22.5	--
BH-24	02/16/23	6'	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<49.9 *-	<49.9	<49.9	<49.9	<49.9	11.1	--
BH-25	02/16/23	6'	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.9 *-	<49.9	<49.9	<49.9	<49.9	7.81	--
BH-26	02/16/23	6'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9 *-	<49.9	<49.9	<49.9	<49.9	13.2	--
BH-27	02/16/23	6'	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<50.0 *-	<50.0	<50.0	<50.0	<50.0	13.3	--
BH-28	02/16/23	6'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9 *-	<49.9	<49.9	<49.9	<49.9	210	--
BH-29	02/16/23	6'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9 *-	<49.9	<49.9	<49.9	<49.9	785	--
BH-30	02/16/23	6'	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9 *-	<49.9	<49.9	<49.9	<49.9	1,900	--

Table 1
Summary of Soil Analytical Data
Delek McElvain
Lea County, New Mexico

SAMPLE ID	SAMPLE DATE	DEPTH (feet bgs)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	BTEX (mg/kg)	TPH					CHLORIDE (Lab) (mg/kg)	CHLORIDE (Field Screening) (mg/kg)
								GRO (C6-C10) (mg/kg)	DRO (C10-C28) (mg/kg)	MRO (C28-C35) (mg/kg)	TPH (GRO+DRO) (mg/kg)	TOTAL (GRO+DRO+MRO) (mg/kg)		
			Table I Closure Criteria for Soils 19.15.29 NMAC (Surface to 4 Feet Below Grade)											
			10	---	---	---	50	---	---	---	---	100	600	600
			Table I Closure Criteria for Soils 51-100 feet Depth to Groundwater 19.15.29 NMAC											
10	---	---	---	50	---	---	---	1,000	2,500	10,000	10,000			
BH-31	02/16/23	6'	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<50.0 *-	<50.0	<50.0	<50.0	<50.0	1,080	--
BH-32	02/16/23	6'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9 *-	<49.9	<49.9	<49.9	<49.9	176	--
BH-33	02/16/23	6'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9 *-	<49.9	<49.9	<49.9	<49.9	889	--
BH-34	02/16/23	6'	<0.00202 *+	<0.00202 *+	<0.00202 *+	<0.00403 *+	<0.00403	<49.9 *-	<49.9	<49.9	<49.9	<49.9	438	--
BH-35	02/16/23	6'	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9 *-	<49.9	<49.9	<49.9	<49.9	337	--
BH-36	02/16/23	6'	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.9 *-	<49.9	<49.9	<49.9	<49.9	2,520	--
BH-37	02/20/23	25'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	1,320	--
BH-38	02/20/23	25'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,590	--
BH-39	02/20/23	5'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	111	--
BH-40	02/20/23	5'	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	18.3	--
BH-41	02/20/23	5'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	13.5	--
BH-42	04/14/23	3'	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	28.0 J	20.8 J	15.0 J	48.8 J	63.8	49.4	--
BH-43	04/14/23	3'	<0.00202	<0.00199	<0.00199	<0.00398	<0.00398	15.7 J	34.3 J	<49.8	50.0 J	50.0	46.7	--
BH-44	04/14/23	3'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	15.5 J	18.5 J	15.0 J	34.0 J	49.0 J	39.2	--
BH-45	04/14/23	6'	<0.00202	<0.00200	<0.00200	<0.00399	<0.00399	44.9 J	41.0 J	<50.0	85.9 J	85.9	56.1	--
BH-46	04/14/23	6'	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	41.7 J	72.1	24.7 J	113.8 J	139	155	--
BH-47	04/14/23	6'	<0.00200	<0.00200	<0.00200	0.00419	0.00230 J	33.7 J	22.9 J	22.2 J	56.6 J	78.8	81.0	--
BH-48	04/14/23	6'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	27.2 J	23.2 J	21.2 J	50.4 J	71.6	1120	--
BH-49	04/14/23	6'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	19.9 J	45.5 J	<49.8	65.4 J	65.4	222	--
BH-50	04/14/23	6'	<0.00200	<0.00201	<0.00201	<0.00402	<0.00402	17.5 J	21.5 J	17.1 J	39.0 J	56.1	57.3	--
BH-51	04/14/23	6'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	28.7 J	17.2 J	17.2 J	45.9 J	63.1	73.5	--
BH-52	04/14/23	6'	<0.00199	<0.00199	<0.00199	0.00339 J	<0.00398	48.4 J	17.2 J	15.7 J	65.6 J	81.3	516	--
BH-53	04/14/23	6'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	19.2 J	21.4 J	18.6 J	40.6 J	59.2	865	--
BH-54	04/14/23	6'	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	29.5 J	23.8 J	16.4 J	53.3 J	69.7	236	--
BH-55	04/14/23	6'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	30.6 J	18.3 J	18.1 J	48.9 J	67.0	117	--
BH-56	04/14/23	6'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	34.9 J	26.1 J	18.2 J	61.0 J	79.2	203	--
BH-57	04/14/23	6'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	26.3 J	20.7 J	16.2 J	47.0 J	63.2	1120	--
BH-58	04/14/23	6'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	23.5 J	22.0 J	15.4 J	45.5 J	60.9	55.5	--
BH-59	04/14/23	6'	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	32.0 J	21.8 J	15.3 J	53.8 J	69.1	972	--
BH-60	04/14/23	6'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	28.9 J	18.5 J	15.2 J	47.4 J	62.6	1180	--
BH-61	04/14/23	6'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	42.3 J	21.6 J	16.2 J	63.9 J	80.1	2200	--
BH-62	04/14/23	6'	<0.00199	0.00163 J	<0.00199	<0.00398	0.00163 J	26.1 J	74.1	16.4 JB	100.2 J	117	266 BF1	--
BH-63	04/14/23	6'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	21.1 J	15.2 J	<49.9	36.3 J	36.3 J	2080 B	--

Table 1
Summary of Soil Analytical Data
Delek McElvain
Lea County, New Mexico

SAMPLE ID	SAMPLE DATE	DEPTH (feet bgs)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	BTEX (mg/kg)	TPH					CHLORIDE (Lab) (mg/kg)	CHLORIDE (Field Screening) (mg/kg)
								GRO (C6-C10) (mg/kg)	DRO (C10-C28) (mg/kg)	MRO (C28-C35) (mg/kg)	TPH (GRO+DRO) (mg/kg)	TOTAL (GRO+DRO+MRO) (mg/kg)		
			Table I Closure Criteria for Soils 19.15.29 NMAC (Surface to 4 Feet Below Grade)											
			10	---	---	---	50	---	---	---	---	100	600	600
			Table I Closure Criteria for Soils 51-100 feet Depth to Groundwater 19.15.29 NMAC											
10	---	---	---	50	---	---	---	1,000	2,500	10,000	10,000			
Sidewall Confirmation Samples														
SW-1	02/16/23	0-3'	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<49.9 *-	<49.9	<49.9	<49.9	<49.9	490	--
SW-2	02/16/23	0-3'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0 *-	<50.0	<50.0	<50.0	<50.0	25.1	--
SW-3	02/16/23	0-3'	<0.00201 F1	<0.00201 F1	<0.00201 F1	<0.00402 F1	<0.00402	<50.0 *-	<50.0	<50.0	<50.0	<50.0	20.6	--
SW-4	02/16/23	0-3'	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<49.9 *-	<49.9	<49.9	<49.9	<49.9	19.9	--
SW-5	02/16/23	0-3'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	128	--
SW-6	02/16/23	0-3'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,130	--
SW-6A	03/15/23	0-3'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	70.8	
SW-7	02/16/23	0-3'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	136	--
SW-8	02/16/23	0-3'	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	59.4	--
SW-9	02/16/23	0-6'	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	75.6	--
SW-10	02/16/23	0-6'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	63.3	--
SW-11	02/16/23	0-6'	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	178	--
SW-12	02/16/23	0-6'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	28.6	--
SW-13	02/16/23	0-6'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	28.1	--
SW-14	02/16/23	0-6'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	44.9	--
SW-15	02/16/23	0-6'	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	58.3	--
SW-16	02/16/23	0-6'	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	499	--
SW-17	02/16/23	0-6'	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	10.0	--
SW-18	02/16/23	0-6'	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	<4.95	--
SW-19	02/16/23	0-6'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	118	--
SW-20	02/16/23	0-6'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	11.7	--
SW-21	02/16/23	0-6'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	11.3	--
SW-22	02/16/23	0-6'	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	26.5	--
SW-23	02/16/23	0-6'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	110	--
SW-24	02/16/23	0-6'	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	15.6	--
SW-25	02/16/23	0-6'	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	33.2	--
SW-26	02/16/23	0-6'	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	30.6	--
SW-27	02/16/23	0-6'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	4,420	--
SW-28	02/16/23	0-6'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	319	59.0	319	378	8,520	--
SW-29	02/16/23	0-6'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	118	--
SW-30	02/16/23	0-6'	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	2,040	--
SW-31	02/16/23	0-6'	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	3,610	--

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Summary of Soil Analytical Data
Delek McElvain
Lea County, New Mexico

SAMPLE ID	SAMPLE DATE	DEPTH (feet bgs)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	BTEX (mg/kg)	TPH					CHLORIDE (Lab) (mg/kg)	CHLORIDE (Field Screening) (mg/kg)
								GRO (C6-C10) (mg/kg)	DRO (C10-C28) (mg/kg)	MRO (C28-C35) (mg/kg)	TPH (GRO+DRO) (mg/kg)	TOTAL (GRO+DRO+MRO) (mg/kg)		
			Table I Closure Criteria for Soils 19.15.29 NMAC (Surface to 4 Feet Below Grade)											
			10	---	---	---	50	---	---	---	---	100	600	600
			Table I Closure Criteria for Soils 51-100 feet Depth to Groundwater 19.15.29 NMAC											
10	---	---	---	50	---	---	---	1,000	2,500	10,000	10,000			
SW-32	02/16/23	0-6'	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	85.4	--
SW-33	02/16/23	0-6'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	5,180	--
SW-34	02/16/23	0-6'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	97.6	--
SW-35	02/16/23	0-6'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	11,600 F1	--
SW-36	02/16/23	0-6'	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	89.6	--
SW-37	02/16/23	0-6'	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	122	<49.9	122	122	664	--
SW-38	02/16/23	0-6'	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<50.0	54.8	<50.0	54.8	54.8	1,200	--
SW-39	02/16/23	0-6'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	97.2	<49.9	97.2	97.2	1,620	--
SW-40	02/16/23	0-6'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	5,220	--
SW-41	02/16/23	0-6'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	6,520	--
SW-42	02/16/23	0-6'	<0.00200	0.00235	<0.00200	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	191	--
SW-43	02/16/23	0-6'	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	734	--
SW-44	02/16/23	0-6'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	2,840	--
SW-45	02/16/23	0-6'	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<49.9	<49.9 *1	<49.9	<49.9	<49.9	8,250	--
SW-46	02/16/23	0-6'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9 *1	<49.9	<49.9	<49.9	157	--
SW-47	02/20/23	0-25'	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	37600 F1	--
SW-48	02/20/23	0-25'	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	3,210	--
SW-49	02/20/23	0-25'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	22,600	--
SW-50	02/20/23	0-25'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	17,000	--
SW-51	02/20/23	0-25'	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	17,300	--
SW-52	02/20/23	0-25'	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	18,900	--
SW-53	02/20/23	0-25'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	22,700	--
SW-54	02/20/23	0-25'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	19,700	--
SW-55	02/20/23	0-25'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	44,100	--
SW-56	02/20/23	0-25'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	36,500	--
SW-57	02/20/23	0-25'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	31,800	--
SW-58	02/20/23	0-5'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	167	--
SW-59	02/20/23	0-5'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	86.6	--
SW-60	02/20/23	0-5'	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	29.6	--
SW-61	03/15/23	0-4'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	146	--
SW-62	03/15/23	0-4'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	28.7	--
SW-63	03/15/23	0-4'	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	5.57	--
SW-64	03/15/23	0-4'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	58.6	--

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Delek McElvain
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SAMPLE ID	SAMPLE DATE	DEPTH (feet bgs)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	BTEX (mg/kg)	TPH					CHLORIDE (Lab) (mg/kg)	CHLORIDE (Field Screening) (mg/kg)
								GRO (C6-C10) (mg/kg)	DRO (C10-C28) (mg/kg)	MRO (C28-C35) (mg/kg)	TPH (GRO+DRO) (mg/kg)	TOTAL (GRO+DRO+MRO) (mg/kg)		
			Table I Closure Criteria for Soils 19.15.29 NMAC (Surface to 4 Feet Below Grade)											
			10	---	---	---	50	---	---	---	---	100	600	600
			Table I Closure Criteria for Soils 51-100 feet Depth to Groundwater 19.15.29 NMAC											
10	---	---	---	50	---	---	---	1,000	2,500	10,000	10,000			
SW-65	03/15/23	0-4'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	12.4	--
SW-66	03/15/23	0-4'	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	128	--
SW-67	03/15/23	0-4'	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	91.6	--
SW-68	03/15/23	0-4'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	78.0	--
SW-69	03/15/23	0-4'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	<5.02	--
SW-70	03/15/23	0-4'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	<4.98	--
SW-71	03/15/23	0-4'	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	74.8	--
SW-72	03/15/23	0-4'	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	94.7	--
SW-73	03/15/23	0-4'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	63.6	--
SW-74	04/14/23	0-3'	0.00430	0.00996 B	0.00109 J	0.00224 J	0.0176	30.4 J	16.5 J	<49.8	46.9 J	<49.8	71.8 B	--
SW-75	04/14/23	0-3'	0.000685 J	0.00450 B	0.00107 J	0.00308 J	0.00933	47.0 JB	31.5 JB	<49.8	78.5 JB	78.5 JB	296 B	--

- 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

BH-2

Sample Point Excavated
7. Yellow shaded cells indicate analytical samples that exceed the NMOC 19.15.29.12 Table 1 Closure Criteria for the site.

8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table 1 Closure Criteria for the site (Surface to 4 Feet Below Grade).

9. J - the target analytes was positively identified below the quantitation limit and above the detection limit.

10. B - Compound was found in the blank and sample.

11. *1 - LCS/LCSD RPD exceeds control limits.

12. F1 - MS and/or MSD recovery exceeds control limits.

13. SW-6, SW-27, SW-28, SW-30, SW-31, SW-35, SW-37 through SW-41, and SW-43 through SW-45 collected on February 16, 2023, were further excavated and resampled as SW-6A and SW-61 through SW-73, respectively

14. Light green shaded cells are those soil samples representing a deferral of remediation

**Summary of Waste Management Information
Delek McElvain
Lea County, New Mexico**

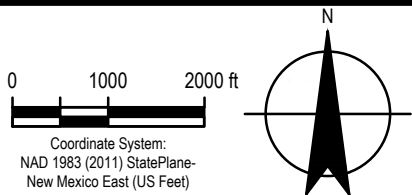
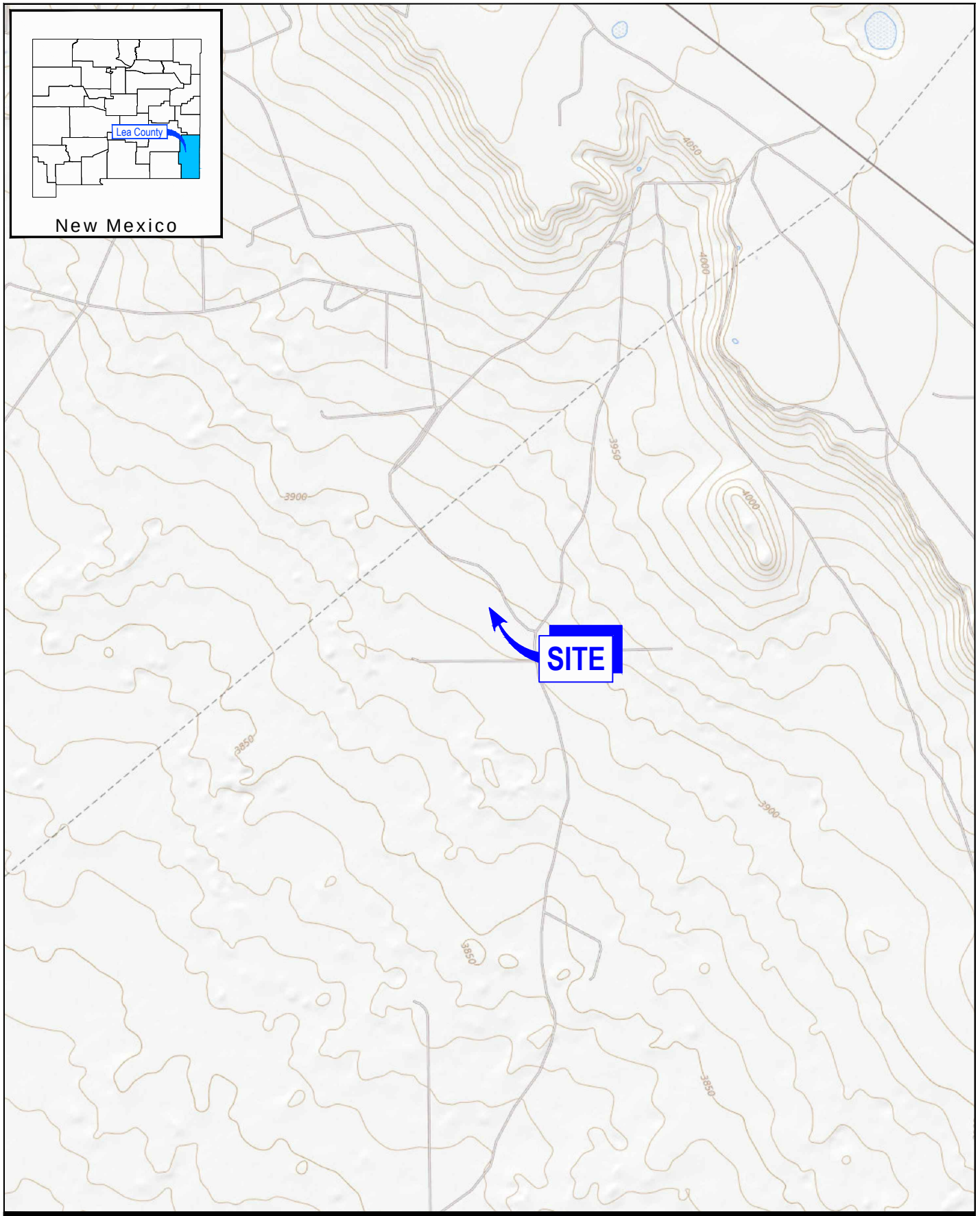
Date	Ticket #	Volume (Cubic Yard)
3/17/2023	618196	20
3/17/2023	618211	20
3/17/2023	618210	20
3/16/2023	622223	20
3/16/2023	622221	20
3/16/2023	622219	20
3/16/2023	622218	20
3/16/2023	622268	20
3/16/2023	622224	12
3/16/2023	622222	20
3/16/2023	622225	20
3/16/2023	622267	20
3/16/2023	622229	20
3/16/2023	622230	20
3/16/2023	622220	20
3/16/2023	622226	20
3/16/2023	622228	12
3/16/2023	622227	20
8/20/2022	588193	20
8/20/2022	598198	20
8/20/2022	598195	20
8/20/2022	598197	20
8/20/2022	598194	20
8/20/2022	598191	20
8/20/2022	598192	20
8/20/2022	598193	20
8/20/2022	598196	20
8/20/2022	598210	20
8/22/2022	598212	20
8/22/2022	598213	20
8/22/2022	598214	20
8/22/2022	598211	20
8/22/2022	598205	20
8/22/2022	598206	20
8/22/2022	598207	20
8/22/2022	598208	20
8/22/2022	598209	20
8/22/2022	598201	20
8/22/2022	598204	20
8/22/2022	598202	20
8/22/2022	598203	20
8/22/2022	598200	20
8/23/2022	598237	20
8/23/2022	598234	20
8/16/2022	597051	20
8/23/2022	598221	20
8/23/2022	598223	20
8/23/2022	598224	20
8/23/2022	598222	20
8/23/2022	598216	20

**Summary of Waste Management Information
Delek McElvain
Lea County, New Mexico**

Date	Ticket #	Volume (Cubic Yard)
8/23/2022	598229	20
8/23/2022	598230	20
8/23/2022	598231	20
8/23/2022	598238	20
8/23/2022	598228	20
8/23/2022	598232	20
8/23/2022	598233	20
8/23/2022	598235	20
8/23/2022	598217	20
8/23/2022	598219	20
8/23/2022	598218	20
8/23/2022	598215	20
8/23/2022	598220	20
8/25/2022	598304	20
8/25/2022	598305	20
8/25/2022	598308	20
8/25/2022	598307	20
8/25/2022	586701	20
8/25/2022	598300	20
8/25/2022	598282	20
8/25/2022	598288	20
8/25/2022	598284	12
8/25/2022	598283	12
8/25/2022	598285	12
8/25/2022	598289	12
8/25/2022	598287	12
8/25/2022	598286	12
8/26/2022	598298	20
8/26/2022	598302	20
8/26/2022	598300	20
8/26/2022	598301	20
8/26/2022	598254	20
8/26/2022	598185	12
8/26/2022	598255	12
8/26/2022	598253	12
8/26/2022	598252	12
8/26/2022	598256	12
8/26/2022	598257	12
8/26/2022	598298	20
8/26/2022	598287	20
8/26/2022	598296	20
9/26/2022	613212	20
9/26/2022	613213	20
9/26/2022	613211	20
9/26/2022	613216	20
9/26/2022	613215	20
9/26/2022	613210	20
9/26/2022	598320	20
9/26/2022	598321	20
9/26/2022	586729	20

**Summary of Waste Management Information
Delek McElvain
Lea County, New Mexico**

Date	Ticket #	Volume (Cubic Yard)
9/26/2022	598319	20
9/26/2022	598322	20
10/6/2022	593633	20
10/6/2022	593634	20
10/6/2022	593646	20
10/6/2022	593644	20
10/6/2022	593645	20
10/6/2022	593630	20
10/6/2022	593631	20
10/6/2022	593632	20
10/7/2022	593648	20
10/7/2022	593649	20
10/7/2022	593651	20
10/7/2022	593639	20
10/7/2022	593638	20
10/7/2022	593643	20
10/7/2022	593640	20
10/7/2022	593650	20
10/7/2022	593647	20
10/7/2022	593635	20
10/7/2022	593637	20
10/7/2022	593636	20
10/10/2022	593653	20
10/10/2022	593652	20
10/10/2022	593642	20
10/10/2022	593641	20
10/10/2022	593656	20
10/10/2022	593662	20
10/10/2022	593654	20
10/10/2022	593655	20
10/10/2022	593658	20
10/10/2022	593659	20
	Total	2528



DELEK LOGISTICS PARTNERS, L.P.
LEA COUNTY, NEW MEXICO
McELVAIN

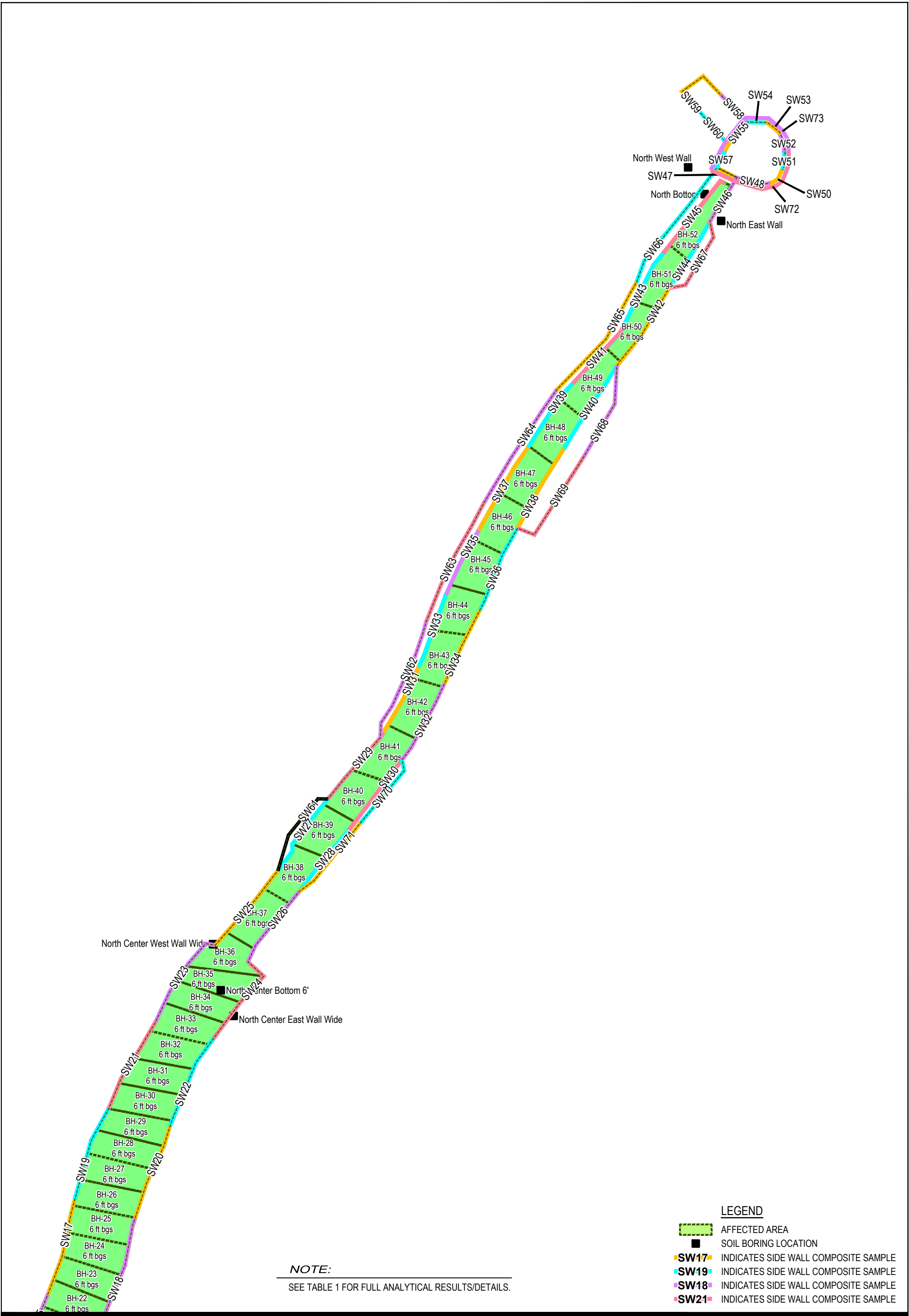
Project No. 12592305
Date October 2022

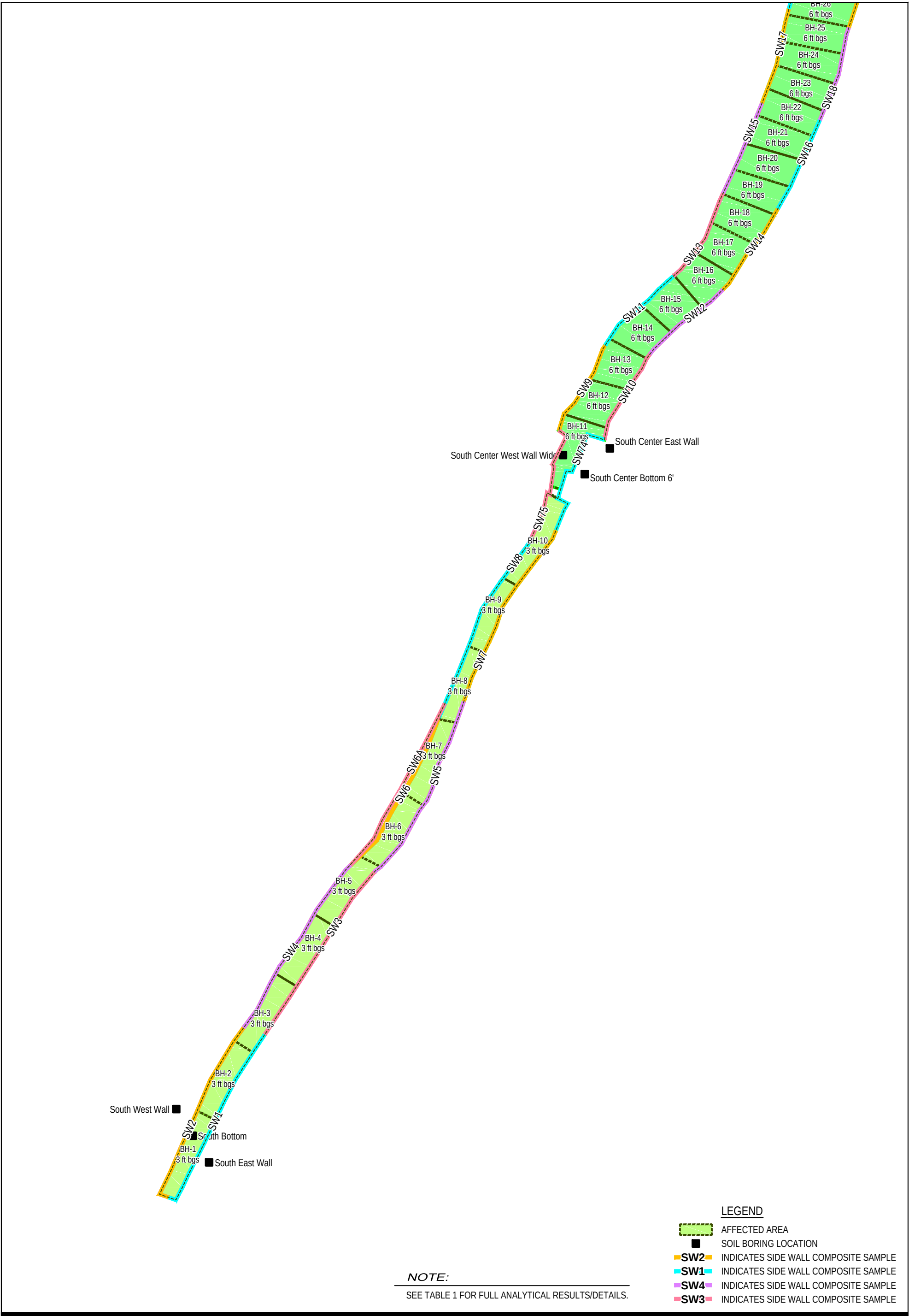
SITE LOCATION MAP

FIGURE 1

Filename: \\ghdnet\ghd\US\Albums\equal\Projects\562\12592305\Digital_Design\ACAD\Figures\IPT001\12592305-GHD-00-00-RPT-EN-D101_DL-001.dwg

Data Source: USGS 7.5 Minute Quad "Ironhouse Well and Laguna Gatuna NW, New Mexico"
Lat/Long: 32.711667° North, 103.593944° West





01530ft

Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)

N

DELEK LOGISTICS PARTNERS, L.P.
LEA COUNTY, NEW MEXICO
McELVAIN

Project No. 12592305
Date May 2023

FIGURE 2B

CONFIRMATION SAMPLING
LOCATIONS MAP - SOUTH

Attachments

Attachment A

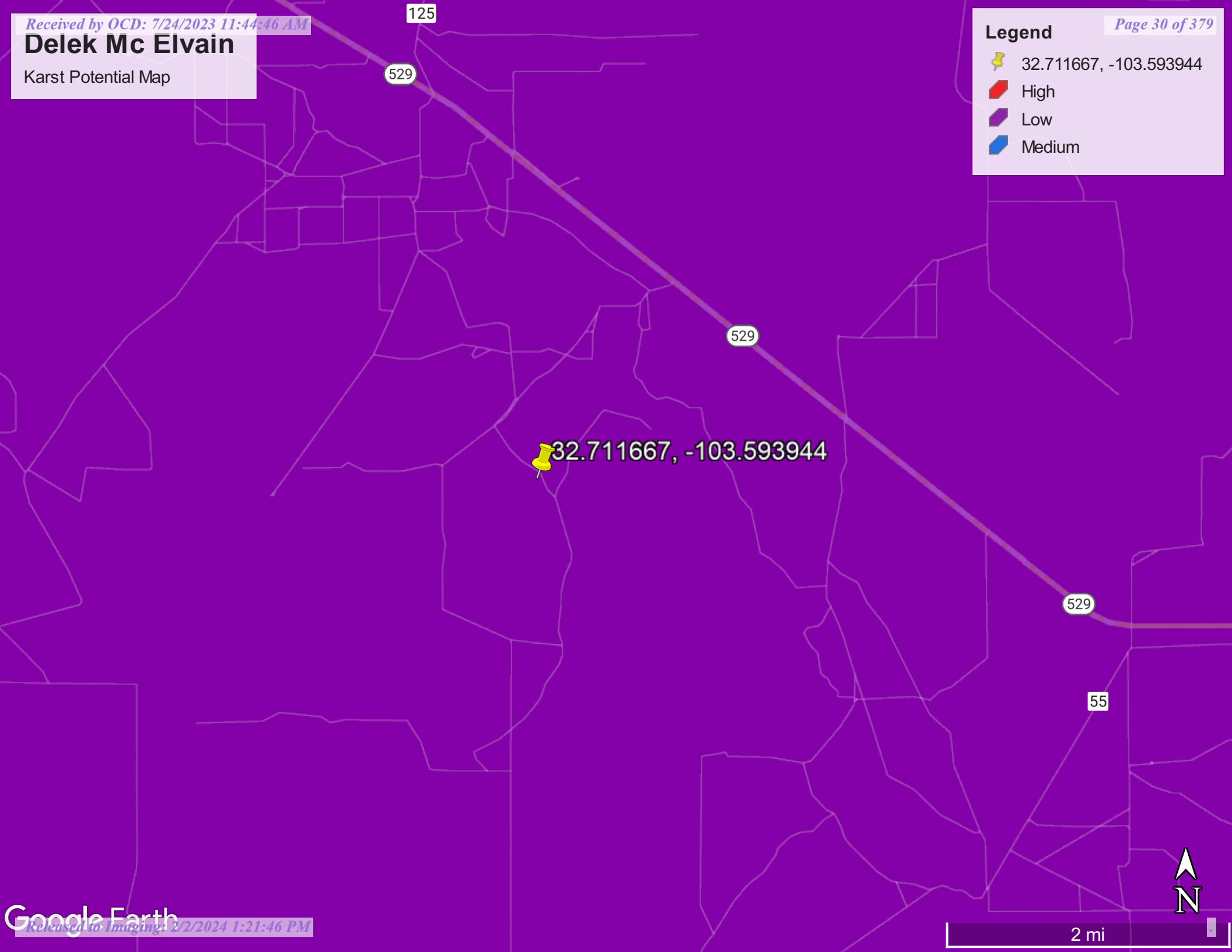
Site Characterization Documentation

Delek Mc Elvain

Karst Potential Map

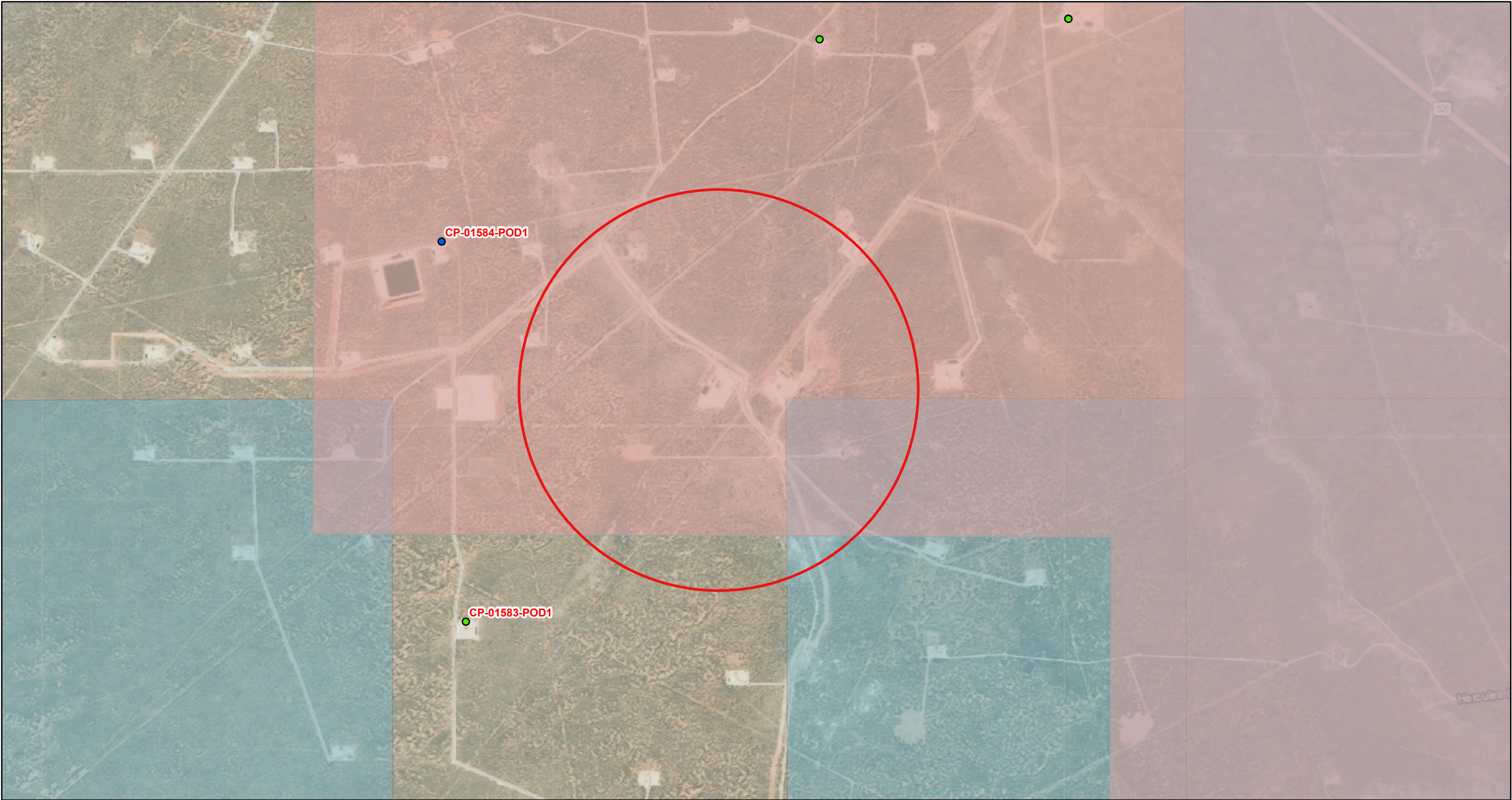
Legend

-  32.711667, -103.593944
-  High
-  Low
-  Medium



2 mi

OSE POD Locations Map



8/29/2022, 1:15:00 PM

Override 1

OSE District Boundary

New Mexico State Trust Lands

GIS WATERS PODs

Water Right Regulations

Both Estates

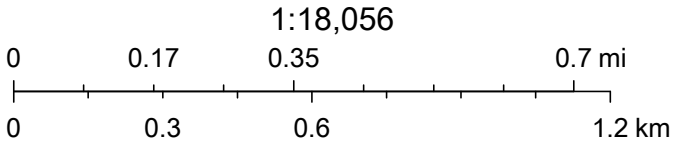
Active

Critical Management Area - Guidelines

SiteBoundaries

Pending

Closure Area



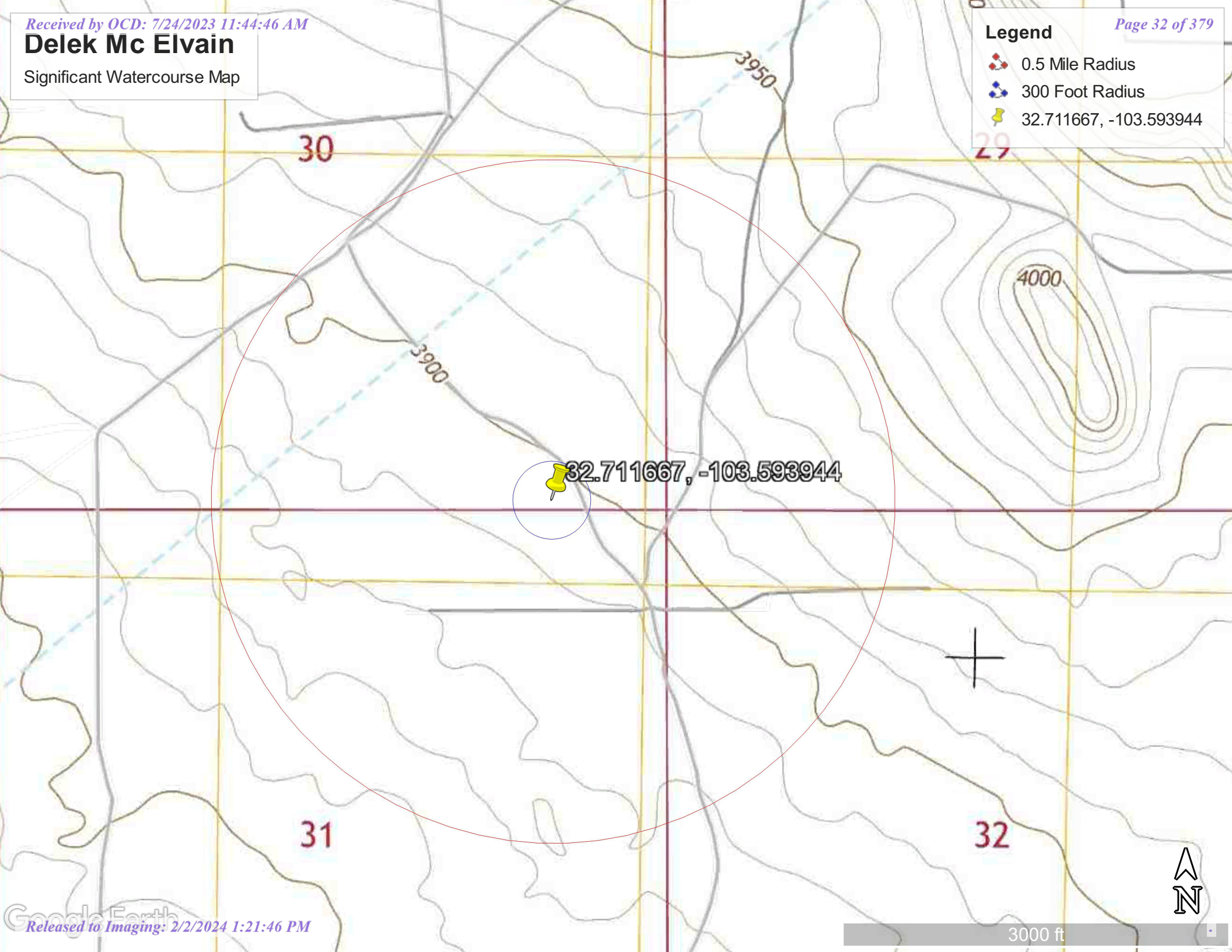
Esri, HERE, GeoTechnologies, Inc., Esri, HERE, Garmin, GeoTechnologies, Inc., U.S. Department of Energy Office of Legacy Management, Maxar

Delek Mc Elvain

Significant Watercourse Map

Legend

-  0.5 Mile Radius
-  300 Foot Radius
-  32.711667, -103.593944





Delek Mc Elvain - Wetlands Map



August 19, 2022

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- 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



103°35'57"W 32°42'57"N



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, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile 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 D
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
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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 8/19/2022 at 12:08 PM 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

Soil Boring Log



STRATIGRAPHIC LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: Delek McElvain

HOLE DESIGNATION: SB01

PROJECT NUMBER: 12592305

DATE COMPLETED: 7 December 2022

CLIENT: Delek Logistics Companies

DRILLING METHOD: HSA/Split Spoon

LOCATION: Lea County, New Mexico, USA

FIELD PERSONNEL: John Ferguson

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SAMPLE				
			NUMBER	INTERVAL	REC (%)	'N' Value	PID (ppm)
	Stratigraphy not recorded						
2							
4							
6			SB01-1	X			0.0
8							
10			SB01-2	X			0.0
12							
14			SB01-3	X			0.0
16							
18			SB01-4	X			0.0
20							
22			SB01-5	X			0.0
24							
26			SB01-6	X			0.0
28							
30							
32							
34							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

File: \\GHDNET\GHD\USALBUQUERQUE\PROJECTS\66212592305\TECH\GINT LOG\12592305 LOG.GPJ Library File: GHD_ENV\IRO_V08.GLB Report: OVERBURDEN LOG Date: 18/4/23



STRATIGRAPHIC LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: Delek McElvain

HOLE DESIGNATION: SB01

PROJECT NUMBER: 12592305

DATE COMPLETED: 7 December 2022

CLIENT: Delek Logistics Companies

DRILLING METHOD: HSA/Split Spoon

LOCATION: Lea County, New Mexico, USA

FIELD PERSONNEL: John Ferguson

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SAMPLE				
			NUMBER	INTERVAL	REC (%)	'N' Value	PID (ppm)
36			SB01-7	X			0.0
38							
40							
42			SB01-8	X			0.0
44							
46							
48							
50							
52			SB01-9	X			0.0
54							
56	END OF BOREHOLE @ 52.00ft BGS	52.00					
58							
60							
62							
64							
66							
68							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

File: \\GHDNET\GHD\US\ALBUQUERQUE\PROJECTS\66212592305\TECH\GINT LOG\12592305 LOG.GPJ Library File: GHD_ENV\IRO_V08.GLB Report: OVERBURDEN LOG Date: 18/4/23

Attachment C

Laboratory Analytical Reports and Chain-of-Custody Documentation



Environment Testing

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Christine Mathews
GHD Services Inc.
6121 Indian School Road NE
Suite 200
Albuquerque, New Mexico 87110

Generated 12/22/2022 12:13:48 PM

JOB DESCRIPTION

Delek - McElvain Pad 30 Release
SDG NUMBER 12592305

JOB NUMBER

880-22478-1

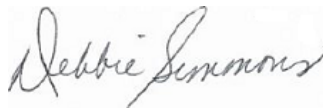
Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
12/22/2022 12:13:48 PM

Authorized for release by
Debbie Simmons, Project Manager
Debbie.Simmons@et.eurofinsus.com
(832)986-6768

Client: GHD Services Inc.
Project/Site: Delek - McElvain Pad 30 Release

Laboratory Job ID: 880-22478-1
SDG: 12592305

Table of Contents

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QC Sample Results	15
QC Association Summary	19
Lab Chronicle	22
Certification Summary	25
Method Summary	26
Sample Summary	27
Chain of Custody	28
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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: Delek - McElvain Pad 30 Release

Job ID: 880-22478-1
SDG: 12592305

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
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
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: Delek - McElvain Pad 30 Release

Job ID: 880-22478-1
SDG: 12592305

Job ID: 880-22478-1**Laboratory: Eurofins Midland****Narrative****Job Narrative
880-22478-1****Receipt**

The samples were received on 12/8/2022 11:22 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 3.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: DM-SB-1-(1)-120722 (880-22478-1), DM-SB-1-(2)-120722 (880-22478-2), DM-SB-1-(3)-120722 (880-22478-3), DM-SB-1-(4)-120722 (880-22478-4), DM-SB-1-(5)-120722 (880-22478-5), DM-SB-1-(6)-120722 (880-22478-6), DM-SB-1-(7)-120722 (880-22478-7), DM-SB-1-(8)-120722 (880-22478-8) and DM-SB-1-(9)-120722 (880-22478-9).

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 surrogate recovery for the blank associated with preparation batch 880-41625 and analytical batch 880-41693 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-41693/5) and (LCS 880-41625/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: DM-SB-1-(7)-120722 (880-22478-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-41625 and analytical batch 880-41693 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 RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-41625 and analytical batch 880-41693 recovered outside control limits for the following analytes: 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

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: Delek - McElvain Pad 30 Release

Job ID: 880-22478-1
SDG: 12592305

Client Sample ID: DM-SB-1-(1)-120722

Lab Sample ID: 880-22478-1

Date Collected: 12/07/22 12:40

Matrix: Solid

Date Received: 12/08/22 11:22

Sample Depth: 5 - 7

Method: SW846 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		12/17/22 16:57	12/21/22 15:05	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg		12/17/22 16:57	12/21/22 15:05	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		12/17/22 16:57	12/21/22 15:05	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		12/17/22 16:57	12/21/22 15:05	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		12/17/22 16:57	12/21/22 15:05	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		12/17/22 16:57	12/21/22 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	12/17/22 16:57	12/21/22 15:05	1
1,4-Difluorobenzene (Surr)	95		70 - 130	12/17/22 16:57	12/21/22 15:05	1

Method: TAL SOP 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			12/21/22 15:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	54.4		50.0	15.0	mg/Kg			12/14/22 12:15	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	31.2	J B	50.0	15.0	mg/Kg		12/12/22 11:00	12/13/22 10:57	1
Diesel Range Organics (Over C10-C28)	23.2	J *1	50.0	15.0	mg/Kg		12/12/22 11:00	12/13/22 10:57	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/12/22 11:00	12/13/22 10:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	12/12/22 11:00	12/13/22 10:57	1
o-Terphenyl	121		70 - 130	12/12/22 11:00	12/13/22 10:57	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.7		5.00	0.395	mg/Kg			12/15/22 08:22	1

Client Sample ID: DM-SB-1-(2)-120722

Lab Sample ID: 880-22478-2

Date Collected: 12/07/22 12:45

Matrix: Solid

Date Received: 12/08/22 11:22

Sample Depth: 10 - 12

Method: SW846 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		12/17/22 16:57	12/21/22 17:33	1
Toluene	<0.000461	U	0.00202	0.000461	mg/Kg		12/17/22 16:57	12/21/22 17:33	1
Ethylbenzene	<0.000571	U	0.00202	0.000571	mg/Kg		12/17/22 16:57	12/21/22 17:33	1
m-Xylene & p-Xylene	<0.00102	U	0.00404	0.00102	mg/Kg		12/17/22 16:57	12/21/22 17:33	1
o-Xylene	<0.000347	U	0.00202	0.000347	mg/Kg		12/17/22 16:57	12/21/22 17:33	1
Xylenes, Total	<0.00102	U	0.00404	0.00102	mg/Kg		12/17/22 16:57	12/21/22 17:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	12/17/22 16:57	12/21/22 17:33	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain Pad 30 Release

Job ID: 880-22478-1
SDG: 12592305

Client Sample ID: DM-SB-1-(2)-120722

Lab Sample ID: 880-22478-2

Date Collected: 12/07/22 12:45

Matrix: Solid

Date Received: 12/08/22 11:22

Sample Depth: 10 - 12

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	92		70 - 130	12/17/22 16:57	12/21/22 17:33	1

Method: TAL SOP 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			12/22/22 08:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	90.2		49.9	15.0	mg/Kg			12/14/22 12:15	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.8	J B	49.9	15.0	mg/Kg		12/12/22 11:00	12/13/22 12:03	1
Diesel Range Organics (Over C10-C28)	66.4	*1	49.9	15.0	mg/Kg		12/12/22 11:00	12/13/22 12:03	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		12/12/22 11:00	12/13/22 12:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				12/12/22 11:00	12/13/22 12:03	1
o-Terphenyl	106		70 - 130				12/12/22 11:00	12/13/22 12:03	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.7		5.04	0.398	mg/Kg			12/15/22 08:44	1

Client Sample ID: DM-SB-1-(3)-120722

Lab Sample ID: 880-22478-3

Date Collected: 12/07/22 12:50

Matrix: Solid

Date Received: 12/08/22 11:22

Sample Depth: 15 - 17

Method: SW846 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		12/17/22 16:57	12/21/22 17:54	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		12/17/22 16:57	12/21/22 17:54	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		12/17/22 16:57	12/21/22 17:54	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		12/17/22 16:57	12/21/22 17:54	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		12/17/22 16:57	12/21/22 17:54	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		12/17/22 16:57	12/21/22 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	12/17/22 16:57	12/21/22 17:54	1
1,4-Difluorobenzene (Surr)	97		70 - 130	12/17/22 16:57	12/21/22 17:54	1

Method: TAL SOP 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			12/22/22 08:07	1

Method: SW846 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			12/14/22 12:15	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain Pad 30 Release

Job ID: 880-22478-1
SDG: 12592305

Client Sample ID: DM-SB-1-(3)-120722

Lab Sample ID: 880-22478-3

Date Collected: 12/07/22 12:50

Matrix: Solid

Date Received: 12/08/22 11:22

Sample Depth: 15 - 17

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	30.0	J B	49.9	15.0	mg/Kg		12/12/22 11:00	12/13/22 12:25	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	49.9	15.0	mg/Kg		12/12/22 11:00	12/13/22 12:25	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		12/12/22 11:00	12/13/22 12:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				12/12/22 11:00	12/13/22 12:25	1
o-Terphenyl	113		70 - 130				12/12/22 11:00	12/13/22 12:25	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.0		5.03	0.397	mg/Kg			12/15/22 08:51	1

Client Sample ID: DM-SB-1-(4)-120722

Lab Sample ID: 880-22478-4

Date Collected: 12/07/22 12:55

Matrix: Solid

Date Received: 12/08/22 11:22

Sample Depth: 20 - 22

Method: SW846 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		12/17/22 16:57	12/21/22 18:15	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		12/17/22 16:57	12/21/22 18:15	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		12/17/22 16:57	12/21/22 18:15	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		12/17/22 16:57	12/21/22 18:15	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		12/17/22 16:57	12/21/22 18:15	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		12/17/22 16:57	12/21/22 18:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130				12/17/22 16:57	12/21/22 18:15	1
1,4-Difluorobenzene (Surr)	93		70 - 130				12/17/22 16:57	12/21/22 18:15	1

Method: TAL SOP 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			12/22/22 08:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	20.6	J	50.0	15.0	mg/Kg			12/14/22 12:15	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	20.6	J B	50.0	15.0	mg/Kg		12/12/22 11:00	12/13/22 12:48	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	50.0	15.0	mg/Kg		12/12/22 11:00	12/13/22 12:48	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/12/22 11:00	12/13/22 12:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				12/12/22 11:00	12/13/22 12:48	1
o-Terphenyl	117		70 - 130				12/12/22 11:00	12/13/22 12:48	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain Pad 30 Release

Job ID: 880-22478-1
SDG: 12592305

Client Sample ID: DM-SB-1-(4)-120722

Lab Sample ID: 880-22478-4

Date Collected: 12/07/22 12:55

Matrix: Solid

Date Received: 12/08/22 11:22

Sample Depth: 20 - 22

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39.5		5.05	0.399	mg/Kg			12/15/22 08:58	1

Client Sample ID: DM-SB-1-(5)-120722

Lab Sample ID: 880-22478-5

Date Collected: 12/07/22 13:00

Matrix: Solid

Date Received: 12/08/22 11:22

Sample Depth: 25 - 27

Method: SW846 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		12/17/22 16:57	12/21/22 18:35	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		12/17/22 16:57	12/21/22 18:35	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		12/17/22 16:57	12/21/22 18:35	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		12/17/22 16:57	12/21/22 18:35	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		12/17/22 16:57	12/21/22 18:35	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		12/17/22 16:57	12/21/22 18:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				12/17/22 16:57	12/21/22 18:35	1
1,4-Difluorobenzene (Surr)	90		70 - 130				12/17/22 16:57	12/21/22 18:35	1

Method: TAL SOP 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			12/22/22 08:07	1

Method: SW846 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			12/14/22 12:15	1

Method: SW846 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		12/12/22 11:00	12/13/22 13:10	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	49.9	15.0	mg/Kg		12/12/22 11:00	12/13/22 13:10	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		12/12/22 11:00	12/13/22 13:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130				12/12/22 11:00	12/13/22 13:10	1
o-Terphenyl	127		70 - 130				12/12/22 11:00	12/13/22 13:10	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3460		24.8	1.96	mg/Kg			12/15/22 09:05	5

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain Pad 30 Release

Job ID: 880-22478-1
SDG: 12592305

Client Sample ID: DM-SB-1-(6)-120722

Lab Sample ID: 880-22478-6

Date Collected: 12/07/22 13:05

Matrix: Solid

Date Received: 12/08/22 11:22

Sample Depth: 30 - 32

Method: SW846 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		12/17/22 16:57	12/21/22 18:56	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		12/17/22 16:57	12/21/22 18:56	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		12/17/22 16:57	12/21/22 18:56	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		12/17/22 16:57	12/21/22 18:56	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		12/17/22 16:57	12/21/22 18:56	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		12/17/22 16:57	12/21/22 18:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	12/17/22 16:57	12/21/22 18:56	1
1,4-Difluorobenzene (Surr)	75		70 - 130	12/17/22 16:57	12/21/22 18:56	1

Method: TAL SOP 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			12/22/22 08:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	27.7	J	50.0	15.0	mg/Kg			12/14/22 12:15	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	27.7	J B	50.0	15.0	mg/Kg		12/12/22 11:00	12/13/22 13:32	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	50.0	15.0	mg/Kg		12/12/22 11:00	12/13/22 13:32	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/12/22 11:00	12/13/22 13:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	12/12/22 11:00	12/13/22 13:32	1
o-Terphenyl	118		70 - 130	12/12/22 11:00	12/13/22 13:32	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1310		25.2	1.99	mg/Kg			12/15/22 09:27	5

Client Sample ID: DM-SB-1-(7)-120722

Lab Sample ID: 880-22478-7

Date Collected: 12/07/22 13:10

Matrix: Solid

Date Received: 12/08/22 11:22

Sample Depth: 35 - 37

Method: SW846 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		12/17/22 16:57	12/21/22 19:17	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		12/17/22 16:57	12/21/22 19:17	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		12/17/22 16:57	12/21/22 19:17	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		12/17/22 16:57	12/21/22 19:17	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		12/17/22 16:57	12/21/22 19:17	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		12/17/22 16:57	12/21/22 19:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	12/17/22 16:57	12/21/22 19:17	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain Pad 30 Release

Job ID: 880-22478-1
SDG: 12592305

Client Sample ID: DM-SB-1-(7)-120722

Lab Sample ID: 880-22478-7

Date Collected: 12/07/22 13:10

Matrix: Solid

Date Received: 12/08/22 11:22

Sample Depth: 35 - 37

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	96		70 - 130	12/17/22 16:57	12/21/22 19:17	1

Method: TAL SOP 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			12/22/22 08:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	34.6	J	49.9	15.0	mg/Kg			12/14/22 12:15	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	34.6	J B	49.9	15.0	mg/Kg		12/12/22 11:00	12/13/22 13:54	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	49.9	15.0	mg/Kg		12/12/22 11:00	12/13/22 13:54	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		12/12/22 11:00	12/13/22 13:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130				12/12/22 11:00	12/13/22 13:54	1
o-Terphenyl	131	S1+	70 - 130				12/12/22 11:00	12/13/22 13:54	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	117		5.01	0.396	mg/Kg			12/15/22 09:34	1

Client Sample ID: DM-SB-1-(8)-120722

Lab Sample ID: 880-22478-8

Date Collected: 12/07/22 13:15

Matrix: Solid

Date Received: 12/08/22 11:22

Sample Depth: 40 - 42

Method: SW846 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		12/17/22 16:57	12/21/22 19:37	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		12/17/22 16:57	12/21/22 19:37	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		12/17/22 16:57	12/21/22 19:37	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		12/17/22 16:57	12/21/22 19:37	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		12/17/22 16:57	12/21/22 19:37	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		12/17/22 16:57	12/21/22 19:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	12/17/22 16:57	12/21/22 19:37	1
1,4-Difluorobenzene (Surr)	101		70 - 130	12/17/22 16:57	12/21/22 19:37	1

Method: TAL SOP 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			12/22/22 08:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	47.2	J	50.0	15.0	mg/Kg			12/14/22 12:15	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain Pad 30 Release

Job ID: 880-22478-1
SDG: 12592305

Client Sample ID: DM-SB-1-(8)-120722

Lab Sample ID: 880-22478-8

Date Collected: 12/07/22 13:15

Matrix: Solid

Date Received: 12/08/22 11:22

Sample Depth: 40 - 42

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	26.1	J B	50.0	15.0	mg/Kg		12/12/22 11:00	12/13/22 14:15	1
Diesel Range Organics (Over C10-C28)	21.1	J *1	50.0	15.0	mg/Kg		12/12/22 11:00	12/13/22 14:15	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/12/22 11:00	12/13/22 14:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130				12/12/22 11:00	12/13/22 14:15	1
o-Terphenyl	127		70 - 130				12/12/22 11:00	12/13/22 14:15	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	127		5.00	0.395	mg/Kg			12/15/22 09:41	1

Client Sample ID: DM-SB-1-(9)-120722

Lab Sample ID: 880-22478-9

Date Collected: 12/07/22 13:20

Matrix: Solid

Date Received: 12/08/22 11:22

Sample Depth: 50 - 52

Method: SW846 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		12/17/22 16:57	12/21/22 19:58	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		12/17/22 16:57	12/21/22 19:58	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		12/17/22 16:57	12/21/22 19:58	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		12/17/22 16:57	12/21/22 19:58	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		12/17/22 16:57	12/21/22 19:58	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		12/17/22 16:57	12/21/22 19:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				12/17/22 16:57	12/21/22 19:58	1
1,4-Difluorobenzene (Surr)	101		70 - 130				12/17/22 16:57	12/21/22 19:58	1

Method: TAL SOP 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			12/22/22 08:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	31.2	J	49.9	15.0	mg/Kg			12/14/22 12:15	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	31.2	J B	49.9	15.0	mg/Kg		12/12/22 11:00	12/13/22 14:37	1
Diesel Range Organics (Over C10-C28)	<15.0	U *1	49.9	15.0	mg/Kg		12/12/22 11:00	12/13/22 14:37	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		12/12/22 11:00	12/13/22 14:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				12/12/22 11:00	12/13/22 14:37	1
o-Terphenyl	114		70 - 130				12/12/22 11:00	12/13/22 14:37	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain Pad 30 Release

Job ID: 880-22478-1
SDG: 12592305

Client Sample ID: DM-SB-1-(9)-120722
Date Collected: 12/07/22 13:20
Date Received: 12/08/22 11:22
Sample Depth: 50 - 52

Lab Sample ID: 880-22478-9
Matrix: Solid

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.1		4.96	0.392	mg/Kg			12/15/22 09:49	1

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

Surrogate Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain Pad 30 Release

Job ID: 880-22478-1
SDG: 12592305

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-22478-1	DM-SB-1-(1)-120722	116	95
880-22478-2	DM-SB-1-(2)-120722	113	92
880-22478-3	DM-SB-1-(3)-120722	121	97
880-22478-4	DM-SB-1-(4)-120722	129	93
880-22478-5	DM-SB-1-(5)-120722	122	90
880-22478-6	DM-SB-1-(6)-120722	79	75
880-22478-7	DM-SB-1-(7)-120722	117	96
880-22478-8	DM-SB-1-(8)-120722	122	101
880-22478-9	DM-SB-1-(9)-120722	123	101
LCS 880-42102/1-A	Lab Control Sample	104	86
LCSD 880-42102/2-A	Lab Control Sample Dup	96	95
MB 880-42102/5-A	Method Blank	104	87
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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-22478-1	DM-SB-1-(1)-120722	120	121
880-22478-1 MS	DM-SB-1-(1)-120722	125	104
880-22478-1 MSD	DM-SB-1-(1)-120722	127	106
880-22478-2	DM-SB-1-(2)-120722	105	106
880-22478-3	DM-SB-1-(3)-120722	112	113
880-22478-4	DM-SB-1-(4)-120722	113	117
880-22478-5	DM-SB-1-(5)-120722	122	127
880-22478-6	DM-SB-1-(6)-120722	116	118
880-22478-7	DM-SB-1-(7)-120722	133 S1+	131 S1+
880-22478-8	DM-SB-1-(8)-120722	123	127
880-22478-9	DM-SB-1-(9)-120722	108	114
LCS 880-41625/2-A	Lab Control Sample	165 S1+	162 S1+
LCSD 880-41625/3-A	Lab Control Sample Dup	127	128
MB 880-41625/1-A	Method Blank	148 S1+	209 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain Pad 30 Release

Job ID: 880-22478-1
SDG: 12592305

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-42102/5-A

Matrix: Solid

Analysis Batch: 42367

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42102

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		12/17/22 16:57	12/21/22 11:37	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		12/17/22 16:57	12/21/22 11:37	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		12/17/22 16:57	12/21/22 11:37	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		12/17/22 16:57	12/21/22 11:37	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		12/17/22 16:57	12/21/22 11:37	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		12/17/22 16:57	12/21/22 11:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	12/17/22 16:57	12/21/22 11:37	1
1,4-Difluorobenzene (Surr)	87		70 - 130	12/17/22 16:57	12/21/22 11:37	1

Lab Sample ID: LCS 880-42102/1-A

Matrix: Solid

Analysis Batch: 42367

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 42102

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09547		mg/Kg		95	70 - 130
Toluene	0.100	0.09588		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.09711		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	0.200	0.2098		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1046		mg/Kg		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: LCSD 880-42102/2-A

Matrix: Solid

Analysis Batch: 42367

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 42102

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09980		mg/Kg		100	70 - 130	4	35
Toluene	0.100	0.09557		mg/Kg		96	70 - 130	0	35
Ethylbenzene	0.100	0.09201		mg/Kg		92	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1929		mg/Kg		96	70 - 130	8	35
o-Xylene	0.100	0.09532		mg/Kg		95	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain Pad 30 Release

Job ID: 880-22478-1
SDG: 12592305

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

Lab Sample ID: MB 880-41625/1-A

Matrix: Solid

Analysis Batch: 41693

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 41625

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	17.48	J	50.0	15.0	mg/Kg		12/12/22 11:00	12/13/22 08:06	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		12/12/22 11:00	12/13/22 08:06	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		12/12/22 11:00	12/13/22 08:06	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130				12/12/22 11:00	12/13/22 08:06	1
o-Terphenyl	209	S1+	70 - 130				12/12/22 11:00	12/13/22 08:06	1

Lab Sample ID: LCS 880-41625/2-A

Matrix: Solid

Analysis Batch: 41693

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 41625

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	949.4		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1175		mg/Kg		118	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	165	S1+	70 - 130				
o-Terphenyl	162	S1+	70 - 130				

Lab Sample ID: LCSD 880-41625/3-A

Matrix: Solid

Analysis Batch: 41693

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 41625

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	922.3		mg/Kg		92	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	925.4	*1	mg/Kg		93	70 - 130	24	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	127		70 - 130						
o-Terphenyl	128		70 - 130						

Lab Sample ID: 880-22478-1 MS

Matrix: Solid

Analysis Batch: 41693

Client Sample ID: DM-SB-1-(1)-120722

Prep Type: Total/NA

Prep Batch: 41625

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	31.2	J B	999	1156		mg/Kg		113	70 - 130
Diesel Range Organics (Over C10-C28)	23.2	J *1	999	1148		mg/Kg		113	70 - 130

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain Pad 30 Release

Job ID: 880-22478-1
SDG: 12592305

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

Lab Sample ID: 880-22478-1 MS

Matrix: Solid

Analysis Batch: 41693

Client Sample ID: DM-SB-1-(1)-120722

Prep Type: Total/NA

Prep Batch: 41625

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	125		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 880-22478-1 MSD

Matrix: Solid

Analysis Batch: 41693

Client Sample ID: DM-SB-1-(1)-120722

Prep Type: Total/NA

Prep Batch: 41625

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	31.2	J B	997	1120		mg/Kg		109	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	23.2	J *1	997	1190		mg/Kg		117	70 - 130	4	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	127		70 - 130								
o-Terphenyl	106		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-41472/1-A

Matrix: Solid

Analysis Batch: 41861

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<0.395	U	5.00	0.395	mg/Kg			12/15/22 08:00	1	

Lab Sample ID: LCS 880-41472/2-A

Matrix: Solid

Analysis Batch: 41861

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS					%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Chloride	250	247.5		mg/Kg		99	90 - 110			

Lab Sample ID: LCSD 880-41472/3-A

Matrix: Solid

Analysis Batch: 41861

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

	Spike	LCSD	LCSD					%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	237.6		mg/Kg		95	90 - 110	4	20	

Lab Sample ID: 880-22478-1 MS

Matrix: Solid

Analysis Batch: 41861

Client Sample ID: DM-SB-1-(1)-120722

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	30.7		250	268.5		mg/Kg		95	90 - 110		

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain Pad 30 Release

Job ID: 880-22478-1
SDG: 12592305

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-22478-1 MSD				Client Sample ID: DM-SB-1-(1)-120722								
Matrix: Solid				Prep Type: Soluble								
Analysis Batch: 41861												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	30.7		250	263.9		mg/Kg		93	90 - 110	2	20	

QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain Pad 30 Release

Job ID: 880-22478-1
SDG: 12592305

GC VOA

Prep Batch: 42102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22478-1	DM-SB-1-(1)-120722	Total/NA	Solid	5035	
880-22478-2	DM-SB-1-(2)-120722	Total/NA	Solid	5035	
880-22478-3	DM-SB-1-(3)-120722	Total/NA	Solid	5035	
880-22478-4	DM-SB-1-(4)-120722	Total/NA	Solid	5035	
880-22478-5	DM-SB-1-(5)-120722	Total/NA	Solid	5035	
880-22478-6	DM-SB-1-(6)-120722	Total/NA	Solid	5035	
880-22478-7	DM-SB-1-(7)-120722	Total/NA	Solid	5035	
880-22478-8	DM-SB-1-(8)-120722	Total/NA	Solid	5035	
880-22478-9	DM-SB-1-(9)-120722	Total/NA	Solid	5035	
MB 880-42102/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-42102/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-42102/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 42367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22478-1	DM-SB-1-(1)-120722	Total/NA	Solid	8021B	42102
880-22478-2	DM-SB-1-(2)-120722	Total/NA	Solid	8021B	42102
880-22478-3	DM-SB-1-(3)-120722	Total/NA	Solid	8021B	42102
880-22478-4	DM-SB-1-(4)-120722	Total/NA	Solid	8021B	42102
880-22478-5	DM-SB-1-(5)-120722	Total/NA	Solid	8021B	42102
880-22478-6	DM-SB-1-(6)-120722	Total/NA	Solid	8021B	42102
880-22478-7	DM-SB-1-(7)-120722	Total/NA	Solid	8021B	42102
880-22478-8	DM-SB-1-(8)-120722	Total/NA	Solid	8021B	42102
880-22478-9	DM-SB-1-(9)-120722	Total/NA	Solid	8021B	42102
MB 880-42102/5-A	Method Blank	Total/NA	Solid	8021B	42102
LCS 880-42102/1-A	Lab Control Sample	Total/NA	Solid	8021B	42102
LCSD 880-42102/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	42102

Analysis Batch: 42444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22478-1	DM-SB-1-(1)-120722	Total/NA	Solid	Total BTEX	
880-22478-2	DM-SB-1-(2)-120722	Total/NA	Solid	Total BTEX	
880-22478-3	DM-SB-1-(3)-120722	Total/NA	Solid	Total BTEX	
880-22478-4	DM-SB-1-(4)-120722	Total/NA	Solid	Total BTEX	
880-22478-5	DM-SB-1-(5)-120722	Total/NA	Solid	Total BTEX	
880-22478-6	DM-SB-1-(6)-120722	Total/NA	Solid	Total BTEX	
880-22478-7	DM-SB-1-(7)-120722	Total/NA	Solid	Total BTEX	
880-22478-8	DM-SB-1-(8)-120722	Total/NA	Solid	Total BTEX	
880-22478-9	DM-SB-1-(9)-120722	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 41625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22478-1	DM-SB-1-(1)-120722	Total/NA	Solid	8015NM Prep	
880-22478-2	DM-SB-1-(2)-120722	Total/NA	Solid	8015NM Prep	
880-22478-3	DM-SB-1-(3)-120722	Total/NA	Solid	8015NM Prep	
880-22478-4	DM-SB-1-(4)-120722	Total/NA	Solid	8015NM Prep	
880-22478-5	DM-SB-1-(5)-120722	Total/NA	Solid	8015NM Prep	
880-22478-6	DM-SB-1-(6)-120722	Total/NA	Solid	8015NM Prep	
880-22478-7	DM-SB-1-(7)-120722	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain Pad 30 Release

Job ID: 880-22478-1
SDG: 12592305

GC Semi VOA (Continued)

Prep Batch: 41625 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22478-8	DM-SB-1-(8)-120722	Total/NA	Solid	8015NM Prep	
880-22478-9	DM-SB-1-(9)-120722	Total/NA	Solid	8015NM Prep	
MB 880-41625/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-41625/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-41625/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-22478-1 MS	DM-SB-1-(1)-120722	Total/NA	Solid	8015NM Prep	
880-22478-1 MSD	DM-SB-1-(1)-120722	Total/NA	Solid	8015NM Prep	

Analysis Batch: 41693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22478-1	DM-SB-1-(1)-120722	Total/NA	Solid	8015B NM	41625
880-22478-2	DM-SB-1-(2)-120722	Total/NA	Solid	8015B NM	41625
880-22478-3	DM-SB-1-(3)-120722	Total/NA	Solid	8015B NM	41625
880-22478-4	DM-SB-1-(4)-120722	Total/NA	Solid	8015B NM	41625
880-22478-5	DM-SB-1-(5)-120722	Total/NA	Solid	8015B NM	41625
880-22478-6	DM-SB-1-(6)-120722	Total/NA	Solid	8015B NM	41625
880-22478-7	DM-SB-1-(7)-120722	Total/NA	Solid	8015B NM	41625
880-22478-8	DM-SB-1-(8)-120722	Total/NA	Solid	8015B NM	41625
880-22478-9	DM-SB-1-(9)-120722	Total/NA	Solid	8015B NM	41625
MB 880-41625/1-A	Method Blank	Total/NA	Solid	8015B NM	41625
LCS 880-41625/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	41625
LCSD 880-41625/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	41625
880-22478-1 MS	DM-SB-1-(1)-120722	Total/NA	Solid	8015B NM	41625
880-22478-1 MSD	DM-SB-1-(1)-120722	Total/NA	Solid	8015B NM	41625

Analysis Batch: 41807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22478-1	DM-SB-1-(1)-120722	Total/NA	Solid	8015 NM	
880-22478-2	DM-SB-1-(2)-120722	Total/NA	Solid	8015 NM	
880-22478-3	DM-SB-1-(3)-120722	Total/NA	Solid	8015 NM	
880-22478-4	DM-SB-1-(4)-120722	Total/NA	Solid	8015 NM	
880-22478-5	DM-SB-1-(5)-120722	Total/NA	Solid	8015 NM	
880-22478-6	DM-SB-1-(6)-120722	Total/NA	Solid	8015 NM	
880-22478-7	DM-SB-1-(7)-120722	Total/NA	Solid	8015 NM	
880-22478-8	DM-SB-1-(8)-120722	Total/NA	Solid	8015 NM	
880-22478-9	DM-SB-1-(9)-120722	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 41472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22478-1	DM-SB-1-(1)-120722	Soluble	Solid	DI Leach	
880-22478-2	DM-SB-1-(2)-120722	Soluble	Solid	DI Leach	
880-22478-3	DM-SB-1-(3)-120722	Soluble	Solid	DI Leach	
880-22478-4	DM-SB-1-(4)-120722	Soluble	Solid	DI Leach	
880-22478-5	DM-SB-1-(5)-120722	Soluble	Solid	DI Leach	
880-22478-6	DM-SB-1-(6)-120722	Soluble	Solid	DI Leach	
880-22478-7	DM-SB-1-(7)-120722	Soluble	Solid	DI Leach	
880-22478-8	DM-SB-1-(8)-120722	Soluble	Solid	DI Leach	
880-22478-9	DM-SB-1-(9)-120722	Soluble	Solid	DI Leach	
MB 880-41472/1-A	Method Blank	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain Pad 30 Release

Job ID: 880-22478-1
SDG: 12592305

HPLC/IC (Continued)

Leach Batch: 41472 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-41472/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-41472/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-22478-1 MS	DM-SB-1-(1)-120722	Soluble	Solid	DI Leach	
880-22478-1 MSD	DM-SB-1-(1)-120722	Soluble	Solid	DI Leach	

Analysis Batch: 41861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-22478-1	DM-SB-1-(1)-120722	Soluble	Solid	300.0	41472
880-22478-2	DM-SB-1-(2)-120722	Soluble	Solid	300.0	41472
880-22478-3	DM-SB-1-(3)-120722	Soluble	Solid	300.0	41472
880-22478-4	DM-SB-1-(4)-120722	Soluble	Solid	300.0	41472
880-22478-5	DM-SB-1-(5)-120722	Soluble	Solid	300.0	41472
880-22478-6	DM-SB-1-(6)-120722	Soluble	Solid	300.0	41472
880-22478-7	DM-SB-1-(7)-120722	Soluble	Solid	300.0	41472
880-22478-8	DM-SB-1-(8)-120722	Soluble	Solid	300.0	41472
880-22478-9	DM-SB-1-(9)-120722	Soluble	Solid	300.0	41472
MB 880-41472/1-A	Method Blank	Soluble	Solid	300.0	41472
LCS 880-41472/2-A	Lab Control Sample	Soluble	Solid	300.0	41472
LCSD 880-41472/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	41472
880-22478-1 MS	DM-SB-1-(1)-120722	Soluble	Solid	300.0	41472
880-22478-1 MSD	DM-SB-1-(1)-120722	Soluble	Solid	300.0	41472

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - McElvain Pad 30 Release

Job ID: 880-22478-1
SDG: 12592305

Client Sample ID: DM-SB-1-(1)-120722
Date Collected: 12/07/22 12:40
Date Received: 12/08/22 11:22

Lab Sample ID: 880-22478-1
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			4.97 g	5 mL	42102	12/17/22 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42367	12/21/22 15:05	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42444	12/21/22 15:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			41807	12/14/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41625	12/12/22 11:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41693	12/13/22 10:57	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	41472	12/10/22 13:18	KS	EET MID
Soluble	Analysis	300.0		1			41861	12/15/22 08:22	CH	EET MID

Client Sample ID: DM-SB-1-(2)-120722
Date Collected: 12/07/22 12:45
Date Received: 12/08/22 11:22

Lab Sample ID: 880-22478-2
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	42102	12/17/22 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42367	12/21/22 17:33	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42444	12/22/22 08:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			41807	12/14/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41625	12/12/22 11:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41693	12/13/22 12:03	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	41472	12/10/22 13:18	KS	EET MID
Soluble	Analysis	300.0		1			41861	12/15/22 08:44	CH	EET MID

Client Sample ID: DM-SB-1-(3)-120722
Date Collected: 12/07/22 12:50
Date Received: 12/08/22 11:22

Lab Sample ID: 880-22478-3
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	42102	12/17/22 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42367	12/21/22 17:54	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42444	12/22/22 08:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			41807	12/14/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41625	12/12/22 11:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41693	12/13/22 12:25	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	41472	12/10/22 13:18	KS	EET MID
Soluble	Analysis	300.0		1			41861	12/15/22 08:51	CH	EET MID

Client Sample ID: DM-SB-1-(4)-120722
Date Collected: 12/07/22 12:55
Date Received: 12/08/22 11:22

Lab Sample ID: 880-22478-4
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	42102	12/17/22 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42367	12/21/22 18:15	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42444	12/22/22 08:07	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - McElvain Pad 30 Release

Job ID: 880-22478-1
SDG: 12592305

Client Sample ID: DM-SB-1-(4)-120722
Date Collected: 12/07/22 12:55
Date Received: 12/08/22 11:22

Lab Sample ID: 880-22478-4
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			41807	12/14/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41625	12/12/22 11:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41693	12/13/22 12:48	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	41472	12/10/22 13:18	KS	EET MID
Soluble	Analysis	300.0		1			41861	12/15/22 08:58	CH	EET MID

Client Sample ID: DM-SB-1-(5)-120722
Date Collected: 12/07/22 13:00
Date Received: 12/08/22 11:22

Lab Sample ID: 880-22478-5
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	42102	12/17/22 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42367	12/21/22 18:35	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42444	12/22/22 08:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			41807	12/14/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	41625	12/12/22 11:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41693	12/13/22 13:10	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	41472	12/10/22 13:18	KS	EET MID
Soluble	Analysis	300.0		5			41861	12/15/22 09:05	CH	EET MID

Client Sample ID: DM-SB-1-(6)-120722
Date Collected: 12/07/22 13:05
Date Received: 12/08/22 11:22

Lab Sample ID: 880-22478-6
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	42102	12/17/22 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42367	12/21/22 18:56	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42444	12/22/22 08:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			41807	12/14/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	41625	12/12/22 11:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41693	12/13/22 13:32	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	41472	12/10/22 13:18	KS	EET MID
Soluble	Analysis	300.0		5			41861	12/15/22 09:27	CH	EET MID

Client Sample ID: DM-SB-1-(7)-120722
Date Collected: 12/07/22 13:10
Date Received: 12/08/22 11:22

Lab Sample ID: 880-22478-7
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	42102	12/17/22 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42367	12/21/22 19:17	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42444	12/22/22 08:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			41807	12/14/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41625	12/12/22 11:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41693	12/13/22 13:54	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - McElvain Pad 30 Release

Job ID: 880-22478-1
SDG: 12592305

Client Sample ID: DM-SB-1-(7)-120722

Lab Sample ID: 880-22478-7

Date Collected: 12/07/22 13:10

Matrix: Solid

Date Received: 12/08/22 11:22

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	41472	12/10/22 13:18	KS	EET MID
Soluble	Analysis	300.0		1			41861	12/15/22 09:34	CH	EET MID

Client Sample ID: DM-SB-1-(8)-120722

Lab Sample ID: 880-22478-8

Date Collected: 12/07/22 13:15

Matrix: Solid

Date Received: 12/08/22 11:22

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	42102	12/17/22 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42367	12/21/22 19:37	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42444	12/22/22 08:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			41807	12/14/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	41625	12/12/22 11:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41693	12/13/22 14:15	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	41472	12/10/22 13:18	KS	EET MID
Soluble	Analysis	300.0		1			41861	12/15/22 09:41	CH	EET MID

Client Sample ID: DM-SB-1-(9)-120722

Lab Sample ID: 880-22478-9

Date Collected: 12/07/22 13:20

Matrix: Solid

Date Received: 12/08/22 11:22

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	42102	12/17/22 16:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	42367	12/21/22 19:58	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42444	12/22/22 08:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			41807	12/14/22 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	41625	12/12/22 11:00	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	41693	12/13/22 14:37	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	41472	12/10/22 13:18	KS	EET MID
Soluble	Analysis	300.0		1			41861	12/15/22 09:49	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain Pad 30 Release

Job ID: 880-22478-1
SDG: 12592305

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	T104704400-22-25	06-30-23

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

Method Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain Pad 30 Release

Job ID: 880-22478-1
SDG: 12592305

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

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

Sample Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain Pad 30 Release

Job ID: 880-22478-1
SDG: 12592305

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-22478-1	DM-SB-1-(1)-120722	Solid	12/07/22 12:40	12/08/22 11:22	5 - 7
880-22478-2	DM-SB-1-(2)-120722	Solid	12/07/22 12:45	12/08/22 11:22	10 - 12
880-22478-3	DM-SB-1-(3)-120722	Solid	12/07/22 12:50	12/08/22 11:22	15 - 17
880-22478-4	DM-SB-1-(4)-120722	Solid	12/07/22 12:55	12/08/22 11:22	20 - 22
880-22478-5	DM-SB-1-(5)-120722	Solid	12/07/22 13:00	12/08/22 11:22	25 - 27
880-22478-6	DM-SB-1-(6)-120722	Solid	12/07/22 13:05	12/08/22 11:22	30 - 32
880-22478-7	DM-SB-1-(7)-120722	Solid	12/07/22 13:10	12/08/22 11:22	35 - 37
880-22478-8	DM-SB-1-(8)-120722	Solid	12/07/22 13:15	12/08/22 11:22	40 - 42
880-22478-9	DM-SB-1-(9)-120722	Solid	12/07/22 13:20	12/08/22 11:22	50 - 52



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: 224178

www.xenco.com Page _____ of _____

Project Manager		Christine Mathews		Bill to (if different)			
Company Name		GHD-Albuquerque		Company Name			
Address		6121 Indian School Rd NE, Suite 200		Address			
City, State ZIP		Albuquerque, NM 87110		City, State ZIP			
Phone		(505) 269-0088		Email		christine.mathews@ghd.com	
Project Name		Deltek-McElvann Pad 30 Release		Turn Around			
Project Number		12592305		Routine Rush		Prep. Code	
Project Location		Lea County, NM		Due Date			
Sampler's Name		J Ferguson		TAT starts the day received by the lab if received by 4:30pm			
PO #							
SAMPLE RECEIPT		Temp Blank. Yes No		Yes No		Well Ice Yes No	
Samples Received Intact		Yes No		Thermometer ID			
Cooler Custody Seals		Yes No		Correction Factor			
Sample Custody Seals		Yes No		Temperature Reading			
Total Containers				Corrected Temperature			
Parameters							
BTX 8021B							
TPH 8015M (GRO+DRO+MRO)							
Chloride EPA 300.0							
ANALYSIS REQUEST							
Program UST/PST		PPP Brownfields		RR		Superfund	
State of Project		Level III		PST/UST		TRR	
Reporting Level II		Level III		TRR		Level IV	
Deliverables EDD		ADAPT		Other			
Preservative Codes		None NO		DI Water H ₂ O			
		Cool Cool		MeOH Me			
		HCL HC		HNO ₃ HN			
		H ₂ SO ₄ H ₂		NaOH Na			
		H ₃ PO ₄ HP					
		NaHSO ₄ NABIS					
		Na ₂ S ₂ O ₃ NASO ₃					
		Zn Acetate+NaOH Zn					
		NaOH+Ascorbic Acid SACP					
Sample Identification		Matrix		Date Sampled		Time Sampled	
DM-SB-1-(1)-120722		S		12/7/2022		1240	
DM-SB-1-(2)-120722		S		12/7/2022		1245	
DM-SB-1-(3)-120722		S		12/7/2022		1250	
DM-SB-1-(4)-120722		S		12/7/2022		1255	
DM-SB-1-(5)-120722		S		12/7/2022		1300	
DM-SB-1-(6)-120722		S		12/7/2022		1305	
DM-SB-1-(7)-120722		S		12/7/2022		1310	
DM-SB-1-(8)-120722		S		12/7/2022		1315	
DM-SB-1-(9)-120722		S		12/7/2022		1320	
Total 200.7 / 6010		200.8 / 6020:		8RCRA 13PPM		Texas 11	
Circle Method(s) and Metal(s) to be analyzed		8RCRA 13PPM		Texas 11		Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag S	
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.		TC1P / SPLP 6010		8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U		Hg 1631 / 2451 / 7470 / 7471	
Relinquished by (Signature)		Received by (Signature)		Date/Time		Relinquished by (Signature)	
1		2		12/13/22		11/22	
5		6					



880-22478 Chain of Custody

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 880-22478-1

SDG Number: 12592305

Login Number: 22478

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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



Environment Testing

- 1
- 2
- 3
- 4
- 5
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ANALYTICAL REPORT

PREPARED FOR

Attn: Stephen Asante-Ansong
GHD Services Inc.
11451 Katy Freeway
Suite 400
Houston, Texas 77079

Generated 2/27/2023 11:54:59 AM

JOB DESCRIPTION

Delek - McElvain
SDG NUMBER 12592305

JOB NUMBER

880-24905-1

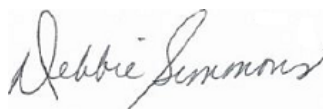
Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
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Authorized for release by
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Client: GHD Services Inc.
Project/Site: Delek - McElvain

Laboratory Job ID: 880-24905-1
SDG: 12592305

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
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, low biased.
*1	LCS/LCSD RPD exceeds control limits.
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.

HPLC/IC

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

Glossary

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

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
RPD	Relative Percent Difference, a measure of the relative difference between two points
SDL	Sample Detection Limit
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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Case Narrative

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Job ID: 880-24905-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-24905-1

Receipt

The samples were received on 2/17/2023 4:33 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 4.5°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH-1 (880-24905-1), BH-2 (880-24905-2), BH-3 (880-24905-3), BH-4 (880-24905-4), BH-5 (880-24905-5), BH-6 (880-24905-6), BH-7 (880-24905-7), BH-8 (880-24905-8), BH-9 (880-24905-9), BH-10 (880-24905-10), BH-11 (880-24905-11), BH-12 (880-24905-12), BH-13 (880-24905-13), BH-14 (880-24905-14), BH-15 (880-24905-15), BH-16 (880-24905-16), BH-17 (880-24905-17), BH-18 (880-24905-18), BH-19 (880-24905-19), BH-20 (880-24905-20), BH-21 (880-24905-21), BH-22 (880-24905-22), BH-23 (880-24905-23), BH-24 (880-24905-24), BH-25 (880-24905-25), BH-26 (880-24905-26), BH-27 (880-24905-27), BH-28 (880-24905-28), BH-29 (880-24905-29), BH-30 (880-24905-30), BH-31 (880-24905-31), BH-32 (880-24905-32), BH-33 (880-24905-33), BH-34 (880-24905-34), BH-35 (880-24905-35), BH-36 (880-24905-36), SW-1 (880-24905-37), SW-2 (880-24905-38), SW-3 (880-24905-39), SW-4 (880-24905-40), SW-5 (880-24905-41), SW-6 (880-24905-42), SW-7 (880-24905-43), SW-8 (880-24905-44), SW-9 (880-24905-45), SW-10 (880-24905-46), SW-11 (880-24905-47), SW-12 (880-24905-48), SW-13 (880-24905-49), SW-14 (880-24905-50), SW-15 (880-24905-51), SW-16 (880-24905-52), SW-17 (880-24905-53), SW-18 (880-24905-54), SW-19 (880-24905-55), SW-20 (880-24905-56), SW-21 (880-24905-57), SW-22 (880-24905-58), SW-23 (880-24905-59), SW-24 (880-24905-60), SW-25 (880-24905-61), SW-26 (880-24905-62), SW-27 (880-24905-63), SW-28 (880-24905-64), SW-29 (880-24905-65), SW-30 (880-24905-66), SW-31 (880-24905-67), SW-32 (880-24905-68), SW-33 (880-24905-69), SW-34 (880-24905-70), SW-35 (880-24905-71), SW-36 (880-24905-72), SW-37 (880-24905-73), SW-38 (880-24905-74), SW-39 (880-24905-75), SW-40 (880-24905-76), SW-41 (880-24905-77), SW-42 (880-24905-78), SW-43 (880-24905-79), SW-44 (880-24905-80), SW-45 (880-24905-81) and SW-46 (880-24905-82).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW-41 (880-24905-77). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-46948 and analytical batch 880-46925 recovered outside control limits for the following analytes: Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-46866 and analytical batch 880-46925 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-34 (880-24905-34), SW-3 (880-24905-39), SW-4 (880-24905-40), SW-5 (880-24905-41), SW-6 (880-24905-42), SW-7 (880-24905-43), SW-8 (880-24905-44), SW-9 (880-24905-45), SW-10 (880-24905-46), SW-11 (880-24905-47), SW-12 (880-24905-48), SW-13 (880-24905-49), SW-14 (880-24905-50), SW-15 (880-24905-51), SW-16 (880-24905-52), SW-17 (880-24905-53), SW-18 (880-24905-54), SW-19 (880-24905-55), SW-20 (880-24905-56), SW-21 (880-24905-57), SW-22 (880-24905-58), (CCV 880-46925/20), (CCV 880-46925/33), (CCV 880-46925/51), (LCS 880-46948/1-A) and (LCSD 880-46948/2-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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 laboratory control sample (LCS) associated with preparation batch 880-46875 and analytical batch 880-46831 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH-23 (880-24905-23), BH-33

Case Narrative

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Job ID: 880-24905-1 (Continued)**Laboratory: Eurofins Midland (Continued)**

(880-24905-33) and (MB 880-46875/1-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (MB 880-46837/1-A) and (MB 880-46838/1-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-47228 and analytical batch 880-47221 was outside the upper control limits.

Method 8015MOD_NM: The method blank for preparation batch 880-47228 and analytical batch 880-47221 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

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-46722 and analytical batch 880-47126 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 880-46724 and analytical batch 880-47128 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: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-1

Lab Sample ID: 880-24905-1

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:27	02/22/23 02:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:27	02/22/23 02:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:27	02/22/23 02:59	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/21/23 14:27	02/22/23 02:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:27	02/22/23 02:59	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/21/23 14:27	02/22/23 02:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	02/21/23 14:27	02/22/23 02:59	1
1,4-Difluorobenzene (Surr)	124		70 - 130	02/21/23 14:27	02/22/23 02:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/22/23 14:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/22/23 16:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/21/23 14:47	02/21/23 21:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/21/23 14:47	02/21/23 21:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/21/23 14:47	02/21/23 21:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	02/21/23 14:47	02/21/23 21:00	1
o-Terphenyl	91		70 - 130	02/21/23 14:47	02/21/23 21:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66.3		5.05		mg/Kg			02/24/23 01:07	1

Client Sample ID: BH-2

Lab Sample ID: 880-24905-2

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:27	02/22/23 03:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:27	02/22/23 03:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:27	02/22/23 03:20	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/21/23 14:27	02/22/23 03:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:27	02/22/23 03:20	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/21/23 14:27	02/22/23 03:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	02/21/23 14:27	02/22/23 03:20	1
1,4-Difluorobenzene (Surr)	109		70 - 130	02/21/23 14:27	02/22/23 03:20	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-2

Lab Sample ID: 880-24905-2

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/22/23 14:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/22/23 16:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/21/23 14:47	02/21/23 22:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/21/23 14:47	02/21/23 22:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/21/23 14:47	02/21/23 22:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				02/21/23 14:47	02/21/23 22:05	1
o-Terphenyl	90		70 - 130				02/21/23 14:47	02/21/23 22:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	422		5.00		mg/Kg			02/24/23 01:25	1

Client Sample ID: BH-3

Lab Sample ID: 880-24905-3

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:27	02/22/23 03:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:27	02/22/23 03:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:27	02/22/23 03:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/21/23 14:27	02/22/23 03:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:27	02/22/23 03:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/21/23 14:27	02/22/23 03:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				02/21/23 14:27	02/22/23 03:40	1
1,4-Difluorobenzene (Surr)	111		70 - 130				02/21/23 14:27	02/22/23 03:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/22/23 14:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/22/23 16:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/21/23 14:47	02/21/23 22:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/21/23 14:47	02/21/23 22:27	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-3

Lab Sample ID: 880-24905-3

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/21/23 14:47	02/21/23 22:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				02/21/23 14:47	02/21/23 22:27	1
o-Terphenyl	100		70 - 130				02/21/23 14:47	02/21/23 22:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	180		4.99		mg/Kg			02/24/23 01:32	1

Client Sample ID: BH-4

Lab Sample ID: 880-24905-4

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:27	02/22/23 04:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:27	02/22/23 04:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:27	02/22/23 04:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/21/23 14:27	02/22/23 04:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:27	02/22/23 04:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/21/23 14:27	02/22/23 04:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				02/21/23 14:27	02/22/23 04:01	1
1,4-Difluorobenzene (Surr)	112		70 - 130				02/21/23 14:27	02/22/23 04:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/22/23 14:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/22/23 16:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 14:47	02/21/23 22:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 14:47	02/21/23 22:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 14:47	02/21/23 22:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				02/21/23 14:47	02/21/23 22:49	1
o-Terphenyl	106		70 - 130				02/21/23 14:47	02/21/23 22:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	312		4.95		mg/Kg			02/24/23 01:38	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-5

Lab Sample ID: 880-24905-5

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:27	02/22/23 04:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:27	02/22/23 04:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:27	02/22/23 04:21	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/21/23 14:27	02/22/23 04:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:27	02/22/23 04:21	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/21/23 14:27	02/22/23 04:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	02/21/23 14:27	02/22/23 04:21	1
1,4-Difluorobenzene (Surr)	114		70 - 130	02/21/23 14:27	02/22/23 04:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/22/23 14:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	52.1		49.9		mg/Kg			02/22/23 16:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 14:47	02/21/23 23:11	1
Diesel Range Organics (Over C10-C28)	52.1		49.9		mg/Kg		02/21/23 14:47	02/21/23 23:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 14:47	02/21/23 23:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	02/21/23 14:47	02/21/23 23:11	1
o-Terphenyl	105		70 - 130	02/21/23 14:47	02/21/23 23:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	964		4.97		mg/Kg			02/24/23 01:44	1

Client Sample ID: BH-6

Lab Sample ID: 880-24905-6

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:27	02/22/23 04:42	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:27	02/22/23 04:42	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:27	02/22/23 04:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/21/23 14:27	02/22/23 04:42	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:27	02/22/23 04:42	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/21/23 14:27	02/22/23 04:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	02/21/23 14:27	02/22/23 04:42	1
1,4-Difluorobenzene (Surr)	103		70 - 130	02/21/23 14:27	02/22/23 04:42	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-6

Lab Sample ID: 880-24905-6

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/22/23 14:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/22/23 16:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 14:47	02/21/23 23:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 14:47	02/21/23 23:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 14:47	02/21/23 23:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				02/21/23 14:47	02/21/23 23:33	1
o-Terphenyl	93		70 - 130				02/21/23 14:47	02/21/23 23:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.0		5.05		mg/Kg			02/24/23 02:02	1

Client Sample ID: BH-7

Lab Sample ID: 880-24905-7

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:27	02/22/23 05:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:27	02/22/23 05:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:27	02/22/23 05:02	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/21/23 14:27	02/22/23 05:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:27	02/22/23 05:02	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/21/23 14:27	02/22/23 05:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				02/21/23 14:27	02/22/23 05:02	1
1,4-Difluorobenzene (Surr)	112		70 - 130				02/21/23 14:27	02/22/23 05:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/22/23 14:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/22/23 16:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 14:47	02/21/23 23:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 14:47	02/21/23 23:56	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-7

Lab Sample ID: 880-24905-7

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 14:47	02/21/23 23:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				02/21/23 14:47	02/21/23 23:56	1
o-Terphenyl	95		70 - 130				02/21/23 14:47	02/21/23 23:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.4		4.97		mg/Kg			02/24/23 02:08	1

Client Sample ID: BH-8

Lab Sample ID: 880-24905-8

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:27	02/22/23 05:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:27	02/22/23 05:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:27	02/22/23 05:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/21/23 14:27	02/22/23 05:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:27	02/22/23 05:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/21/23 14:27	02/22/23 05:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				02/21/23 14:27	02/22/23 05:23	1
1,4-Difluorobenzene (Surr)	106		70 - 130				02/21/23 14:27	02/22/23 05:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/22/23 14:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/22/23 16:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 14:47	02/22/23 00:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 14:47	02/22/23 00:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 14:47	02/22/23 00:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				02/21/23 14:47	02/22/23 00:18	1
o-Terphenyl	96		70 - 130				02/21/23 14:47	02/22/23 00:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.4		5.00		mg/Kg			02/24/23 02:15	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-9

Lab Sample ID: 880-24905-9

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:27	02/22/23 05:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:27	02/22/23 05:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:27	02/22/23 05:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/21/23 14:27	02/22/23 05:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:27	02/22/23 05:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/21/23 14:27	02/22/23 05:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	02/21/23 14:27	02/22/23 05:43	1
1,4-Difluorobenzene (Surr)	113		70 - 130	02/21/23 14:27	02/22/23 05:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/22/23 14:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/22/23 16:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/21/23 14:47	02/22/23 00:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/21/23 14:47	02/22/23 00:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/21/23 14:47	02/22/23 00:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	02/21/23 14:47	02/22/23 00:40	1
o-Terphenyl	114		70 - 130	02/21/23 14:47	02/22/23 00:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95		mg/Kg			02/24/23 02:21	1

Client Sample ID: BH-10

Lab Sample ID: 880-24905-10

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:27	02/22/23 07:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:27	02/22/23 07:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:27	02/22/23 07:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/21/23 14:27	02/22/23 07:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:27	02/22/23 07:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/21/23 14:27	02/22/23 07:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	02/21/23 14:27	02/22/23 07:33	1
1,4-Difluorobenzene (Surr)	112		70 - 130	02/21/23 14:27	02/22/23 07:33	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-10

Lab Sample ID: 880-24905-10

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/22/23 14:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/22/23 16:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/21/23 14:47	02/22/23 01:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/21/23 14:47	02/22/23 01:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/21/23 14:47	02/22/23 01:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				02/21/23 14:47	02/22/23 01:02	1
o-Terphenyl	104		70 - 130				02/21/23 14:47	02/22/23 01:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.09		4.96		mg/Kg			02/24/23 02:27	1

Client Sample ID: BH-11

Lab Sample ID: 880-24905-11

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:27	02/22/23 07:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:27	02/22/23 07:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:27	02/22/23 07:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/21/23 14:27	02/22/23 07:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:27	02/22/23 07:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/21/23 14:27	02/22/23 07:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				02/21/23 14:27	02/22/23 07:54	1
1,4-Difluorobenzene (Surr)	107		70 - 130				02/21/23 14:27	02/22/23 07:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/22/23 14:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/22/23 16:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 14:47	02/22/23 01:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 14:47	02/22/23 01:47	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-11

Lab Sample ID: 880-24905-11

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 14:47	02/22/23 01:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				02/21/23 14:47	02/22/23 01:47	1
o-Terphenyl	113		70 - 130				02/21/23 14:47	02/22/23 01:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.4		4.98		mg/Kg			02/24/23 02:33	1

Client Sample ID: BH-12

Lab Sample ID: 880-24905-12

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/22/23 09:33	02/23/23 03:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/22/23 09:33	02/23/23 03:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/22/23 09:33	02/23/23 03:31	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/22/23 09:33	02/23/23 03:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/22/23 09:33	02/23/23 03:31	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/22/23 09:33	02/23/23 03:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				02/22/23 09:33	02/23/23 03:31	1
1,4-Difluorobenzene (Surr)	111		70 - 130				02/22/23 09:33	02/23/23 03:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/23/23 12:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/22/23 16:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 14:47	02/22/23 02:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 14:47	02/22/23 02:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 14:47	02/22/23 02:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				02/21/23 14:47	02/22/23 02:10	1
o-Terphenyl	91		70 - 130				02/21/23 14:47	02/22/23 02:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.3		5.00		mg/Kg			02/24/23 02:52	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-13

Lab Sample ID: 880-24905-13

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:27	02/22/23 08:35	1
Toluene	0.00215		0.00200		mg/Kg		02/21/23 14:27	02/22/23 08:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:27	02/22/23 08:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/21/23 14:27	02/22/23 08:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:27	02/22/23 08:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/21/23 14:27	02/22/23 08:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	02/21/23 14:27	02/22/23 08:35	1
1,4-Difluorobenzene (Surr)	102		70 - 130	02/21/23 14:27	02/22/23 08:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/22/23 14:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/22/23 16:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/21/23 14:47	02/22/23 02:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/21/23 14:47	02/22/23 02:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/21/23 14:47	02/22/23 02:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	02/21/23 14:47	02/22/23 02:31	1
o-Terphenyl	108		70 - 130	02/21/23 14:47	02/22/23 02:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.0		4.97		mg/Kg			02/24/23 02:58	1

Client Sample ID: BH-14

Lab Sample ID: 880-24905-14

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:27	02/22/23 08:55	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:27	02/22/23 08:55	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:27	02/22/23 08:55	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/21/23 14:27	02/22/23 08:55	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:27	02/22/23 08:55	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/21/23 14:27	02/22/23 08:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	02/21/23 14:27	02/22/23 08:55	1
1,4-Difluorobenzene (Surr)	109		70 - 130	02/21/23 14:27	02/22/23 08:55	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-14

Lab Sample ID: 880-24905-14

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/22/23 14:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/22/23 16:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 14:47	02/22/23 02:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 14:47	02/22/23 02:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 14:47	02/22/23 02:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				02/21/23 14:47	02/22/23 02:53	1
o-Terphenyl	90		70 - 130				02/21/23 14:47	02/22/23 02:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.3		5.04		mg/Kg			02/24/23 03:16	1

Client Sample ID: BH-15

Lab Sample ID: 880-24905-15

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:27	02/22/23 09:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:27	02/22/23 09:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:27	02/22/23 09:16	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/21/23 14:27	02/22/23 09:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:27	02/22/23 09:16	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/21/23 14:27	02/22/23 09:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				02/21/23 14:27	02/22/23 09:16	1
1,4-Difluorobenzene (Surr)	106		70 - 130				02/21/23 14:27	02/22/23 09:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/22/23 14:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/22/23 16:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 14:47	02/22/23 03:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 14:47	02/22/23 03:16	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-15

Lab Sample ID: 880-24905-15

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 14:47	02/22/23 03:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				02/21/23 14:47	02/22/23 03:16	1
o-Terphenyl	88		70 - 130				02/21/23 14:47	02/22/23 03:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52.7		4.99		mg/Kg			02/24/23 03:22	1

Client Sample ID: BH-16

Lab Sample ID: 880-24905-16

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/21/23 14:27	02/22/23 09:36	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/21/23 14:27	02/22/23 09:36	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/21/23 14:27	02/22/23 09:36	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/21/23 14:27	02/22/23 09:36	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/21/23 14:27	02/22/23 09:36	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/21/23 14:27	02/22/23 09:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				02/21/23 14:27	02/22/23 09:36	1
1,4-Difluorobenzene (Surr)	109		70 - 130				02/21/23 14:27	02/22/23 09:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/22/23 14:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/22/23 16:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 14:47	02/22/23 03:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 14:47	02/22/23 03:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 14:47	02/22/23 03:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				02/21/23 14:47	02/22/23 03:38	1
o-Terphenyl	98		70 - 130				02/21/23 14:47	02/22/23 03:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.31		4.95		mg/Kg			02/24/23 03:29	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-17

Lab Sample ID: 880-24905-17

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:27	02/22/23 09:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:27	02/22/23 09:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:27	02/22/23 09:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/21/23 14:27	02/22/23 09:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:27	02/22/23 09:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/21/23 14:27	02/22/23 09:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	02/21/23 14:27	02/22/23 09:57	1
1,4-Difluorobenzene (Surr)	110		70 - 130	02/21/23 14:27	02/22/23 09:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/22/23 14:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/22/23 16:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 14:47	02/22/23 04:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 14:47	02/22/23 04:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 14:47	02/22/23 04:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	02/21/23 14:47	02/22/23 04:01	1
o-Terphenyl	102		70 - 130	02/21/23 14:47	02/22/23 04:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.23		5.05		mg/Kg			02/24/23 03:35	1

Client Sample ID: BH-18

Lab Sample ID: 880-24905-18

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:27	02/22/23 10:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:27	02/22/23 10:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:27	02/22/23 10:17	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/21/23 14:27	02/22/23 10:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:27	02/22/23 10:17	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/21/23 14:27	02/22/23 10:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	02/21/23 14:27	02/22/23 10:17	1
1,4-Difluorobenzene (Surr)	107		70 - 130	02/21/23 14:27	02/22/23 10:17	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-18

Lab Sample ID: 880-24905-18

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/22/23 14:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/22/23 16:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/21/23 14:47	02/22/23 04:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/21/23 14:47	02/22/23 04:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/21/23 14:47	02/22/23 04:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				02/21/23 14:47	02/22/23 04:23	1
o-Terphenyl	113		70 - 130				02/21/23 14:47	02/22/23 04:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.18		4.97		mg/Kg			02/24/23 03:41	1

Client Sample ID: BH-19

Lab Sample ID: 880-24905-19

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:29	02/22/23 11:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:29	02/22/23 11:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:29	02/22/23 11:19	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/21/23 14:29	02/22/23 11:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:29	02/22/23 11:19	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/21/23 14:29	02/22/23 11:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				02/21/23 14:29	02/22/23 11:19	1
1,4-Difluorobenzene (Surr)	92		70 - 130				02/21/23 14:29	02/22/23 11:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/22/23 17:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/22/23 16:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/21/23 14:47	02/22/23 04:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/21/23 14:47	02/22/23 04:46	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-19

Lab Sample ID: 880-24905-19

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/21/23 14:47	02/22/23 04:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				02/21/23 14:47	02/22/23 04:46	1
o-Terphenyl	102		70 - 130				02/21/23 14:47	02/22/23 04:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.98		4.95		mg/Kg			02/24/23 03:47	1

Client Sample ID: BH-20

Lab Sample ID: 880-24905-20

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:29	02/22/23 11:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:29	02/22/23 11:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:29	02/22/23 11:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/21/23 14:29	02/22/23 11:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:29	02/22/23 11:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/21/23 14:29	02/22/23 11:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				02/21/23 14:29	02/22/23 11:39	1
1,4-Difluorobenzene (Surr)	86		70 - 130				02/21/23 14:29	02/22/23 11:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/22/23 17:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/22/23 16:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 14:47	02/22/23 06:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 14:47	02/22/23 06:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 14:47	02/22/23 06:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				02/21/23 14:47	02/22/23 06:50	1
o-Terphenyl	107		70 - 130				02/21/23 14:47	02/22/23 06:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	741		5.00		mg/Kg			02/24/23 03:53	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-21

Lab Sample ID: 880-24905-21

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:29	02/22/23 12:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:29	02/22/23 12:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:29	02/22/23 12:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/21/23 14:29	02/22/23 12:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:29	02/22/23 12:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/21/23 14:29	02/22/23 12:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	02/21/23 14:29	02/22/23 12:00	1
1,4-Difluorobenzene (Surr)	91		70 - 130	02/21/23 14:29	02/22/23 12:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/22/23 17:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/22/23 16:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	49.9		mg/Kg		02/21/23 14:51	02/21/23 21:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 14:51	02/21/23 21:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 14:51	02/21/23 21:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	02/21/23 14:51	02/21/23 21:00	1
o-Terphenyl	119		70 - 130	02/21/23 14:51	02/21/23 21:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.5		5.02		mg/Kg			02/24/23 04:42	1

Client Sample ID: BH-22

Lab Sample ID: 880-24905-22

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:29	02/22/23 12:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:29	02/22/23 12:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:29	02/22/23 12:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/21/23 14:29	02/22/23 12:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:29	02/22/23 12:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/21/23 14:29	02/22/23 12:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	02/21/23 14:29	02/22/23 12:20	1
1,4-Difluorobenzene (Surr)	88		70 - 130	02/21/23 14:29	02/22/23 12:20	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-22

Lab Sample ID: 880-24905-22

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/22/23 17:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/22/23 16:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *-	50.0		mg/Kg		02/21/23 14:51	02/21/23 22:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/21/23 14:51	02/21/23 22:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/21/23 14:51	02/21/23 22:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				02/21/23 14:51	02/21/23 22:05	1
o-Terphenyl	117		70 - 130				02/21/23 14:51	02/21/23 22:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.02		4.98		mg/Kg			02/24/23 05:01	1

Client Sample ID: BH-23

Lab Sample ID: 880-24905-23

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:29	02/22/23 12:41	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:29	02/22/23 12:41	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:29	02/22/23 12:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/21/23 14:29	02/22/23 12:41	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:29	02/22/23 12:41	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/21/23 14:29	02/22/23 12:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				02/21/23 14:29	02/22/23 12:41	1
1,4-Difluorobenzene (Surr)	91		70 - 130				02/21/23 14:29	02/22/23 12:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/22/23 17:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/22/23 16:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *-	50.0		mg/Kg		02/21/23 14:51	02/21/23 22:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/21/23 14:51	02/21/23 22:27	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-23

Lab Sample ID: 880-24905-23

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/21/23 14:51	02/21/23 22:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				02/21/23 14:51	02/21/23 22:27	1
o-Terphenyl	131	S1+	70 - 130				02/21/23 14:51	02/21/23 22:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.5		5.00		mg/Kg			02/24/23 05:07	1

Client Sample ID: BH-24

Lab Sample ID: 880-24905-24

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		02/21/23 14:29	02/22/23 13:01	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/21/23 14:29	02/22/23 13:01	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/21/23 14:29	02/22/23 13:01	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		02/21/23 14:29	02/22/23 13:01	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/21/23 14:29	02/22/23 13:01	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		02/21/23 14:29	02/22/23 13:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				02/21/23 14:29	02/22/23 13:01	1
1,4-Difluorobenzene (Surr)	88		70 - 130				02/21/23 14:29	02/22/23 13:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			02/22/23 17:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/22/23 16:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	49.9		mg/Kg		02/21/23 14:51	02/21/23 22:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 14:51	02/21/23 22:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 14:51	02/21/23 22:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				02/21/23 14:51	02/21/23 22:49	1
o-Terphenyl	110		70 - 130				02/21/23 14:51	02/21/23 22:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.1		4.95		mg/Kg			02/24/23 05:13	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-25

Lab Sample ID: 880-24905-25

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:29	02/22/23 13:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:29	02/22/23 13:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:29	02/22/23 13:22	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/21/23 14:29	02/22/23 13:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:29	02/22/23 13:22	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/21/23 14:29	02/22/23 13:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	02/21/23 14:29	02/22/23 13:22	1
1,4-Difluorobenzene (Surr)	84		70 - 130	02/21/23 14:29	02/22/23 13:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/22/23 17:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/22/23 16:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	49.9		mg/Kg		02/21/23 14:51	02/21/23 23:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 14:51	02/21/23 23:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 14:51	02/21/23 23:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	02/21/23 14:51	02/21/23 23:11	1
o-Terphenyl	124		70 - 130	02/21/23 14:51	02/21/23 23:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.81		5.01		mg/Kg			02/24/23 05:19	1

Client Sample ID: BH-26

Lab Sample ID: 880-24905-26

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:29	02/22/23 13:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:29	02/22/23 13:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:29	02/22/23 13:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/21/23 14:29	02/22/23 13:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:29	02/22/23 13:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/21/23 14:29	02/22/23 13:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	02/21/23 14:29	02/22/23 13:42	1
1,4-Difluorobenzene (Surr)	85		70 - 130	02/21/23 14:29	02/22/23 13:42	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-26

Lab Sample ID: 880-24905-26

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/22/23 17:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/22/23 16:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	49.9		mg/Kg		02/21/23 14:51	02/21/23 23:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 14:51	02/21/23 23:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 14:51	02/21/23 23:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				02/21/23 14:51	02/21/23 23:33	1
o-Terphenyl	117		70 - 130				02/21/23 14:51	02/21/23 23:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.2		5.01		mg/Kg			02/24/23 05:38	1

Client Sample ID: BH-27

Lab Sample ID: 880-24905-27

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/21/23 14:29	02/22/23 14:03	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/21/23 14:29	02/22/23 14:03	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/21/23 14:29	02/22/23 14:03	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/21/23 14:29	02/22/23 14:03	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/21/23 14:29	02/22/23 14:03	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/21/23 14:29	02/22/23 14:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				02/21/23 14:29	02/22/23 14:03	1
1,4-Difluorobenzene (Surr)	66	S1-	70 - 130				02/21/23 14:29	02/22/23 14:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/22/23 17:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/22/23 16:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *-	50.0		mg/Kg		02/21/23 14:51	02/21/23 23:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/21/23 14:51	02/21/23 23:56	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-27

Lab Sample ID: 880-24905-27

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/21/23 14:51	02/21/23 23:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				02/21/23 14:51	02/21/23 23:56	1
o-Terphenyl	128		70 - 130				02/21/23 14:51	02/21/23 23:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.3		4.97		mg/Kg			02/24/23 05:44	1

Client Sample ID: BH-28

Lab Sample ID: 880-24905-28

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:29	02/22/23 14:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:29	02/22/23 14:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:29	02/22/23 14:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/21/23 14:29	02/22/23 14:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:29	02/22/23 14:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/21/23 14:29	02/22/23 14:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				02/21/23 14:29	02/22/23 14:23	1
1,4-Difluorobenzene (Surr)	85		70 - 130				02/21/23 14:29	02/22/23 14:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/22/23 17:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/22/23 16:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	49.9		mg/Kg		02/21/23 14:51	02/22/23 00:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 14:51	02/22/23 00:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 14:51	02/22/23 00:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				02/21/23 14:51	02/22/23 00:18	1
o-Terphenyl	113		70 - 130				02/21/23 14:51	02/22/23 00:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	210		4.99		mg/Kg			02/24/23 05:50	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-29

Lab Sample ID: 880-24905-29

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:29	02/22/23 15:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:29	02/22/23 15:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:29	02/22/23 15:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/21/23 14:29	02/22/23 15:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:29	02/22/23 15:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/21/23 14:29	02/22/23 15:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	229	S1+	70 - 130	02/21/23 14:29	02/22/23 15:46	1
1,4-Difluorobenzene (Surr)	196	S1+	70 - 130	02/21/23 14:29	02/22/23 15:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/22/23 17:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/22/23 16:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	49.9		mg/Kg		02/21/23 14:51	02/22/23 00:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 14:51	02/22/23 00:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 14:51	02/22/23 00:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	02/21/23 14:51	02/22/23 00:40	1
o-Terphenyl	106		70 - 130	02/21/23 14:51	02/22/23 00:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	785		5.00		mg/Kg			02/24/23 05:56	1

Client Sample ID: BH-30

Lab Sample ID: 880-24905-30

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:29	02/22/23 16:07	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:29	02/22/23 16:07	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:29	02/22/23 16:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/21/23 14:29	02/22/23 16:07	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:29	02/22/23 16:07	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/21/23 14:29	02/22/23 16:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	02/21/23 14:29	02/22/23 16:07	1
1,4-Difluorobenzene (Surr)	88		70 - 130	02/21/23 14:29	02/22/23 16:07	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-30

Lab Sample ID: 880-24905-30

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/22/23 17:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/22/23 16:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	49.9		mg/Kg		02/21/23 14:51	02/22/23 01:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 14:51	02/22/23 01:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 14:51	02/22/23 01:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				02/21/23 14:51	02/22/23 01:02	1
o-Terphenyl	111		70 - 130				02/21/23 14:51	02/22/23 01:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1900		25.0		mg/Kg			02/24/23 06:02	5

Client Sample ID: BH-31

Lab Sample ID: 880-24905-31

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:29	02/22/23 16:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:29	02/22/23 16:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:29	02/22/23 16:27	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/21/23 14:29	02/22/23 16:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:29	02/22/23 16:27	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/21/23 14:29	02/22/23 16:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				02/21/23 14:29	02/22/23 16:27	1
1,4-Difluorobenzene (Surr)	90		70 - 130				02/21/23 14:29	02/22/23 16:27	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/22/23 17:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/22/23 16:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *-	50.0		mg/Kg		02/21/23 14:51	02/22/23 01:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/21/23 14:51	02/22/23 01:25	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-31

Lab Sample ID: 880-24905-31

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/21/23 14:51	02/22/23 01:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				02/21/23 14:51	02/22/23 01:25	1
o-Terphenyl	108		70 - 130				02/21/23 14:51	02/22/23 01:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1080		4.97		mg/Kg			02/24/23 06:09	1

Client Sample ID: BH-32

Lab Sample ID: 880-24905-32

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:29	02/22/23 16:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:29	02/22/23 16:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:29	02/22/23 16:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/21/23 14:29	02/22/23 16:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:29	02/22/23 16:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/21/23 14:29	02/22/23 16:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				02/21/23 14:29	02/22/23 16:58	1
1,4-Difluorobenzene (Surr)	82		70 - 130				02/21/23 14:29	02/22/23 16:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/22/23 17:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/22/23 16:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	49.9		mg/Kg		02/21/23 14:51	02/22/23 01:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 14:51	02/22/23 01:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 14:51	02/22/23 01:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				02/21/23 14:51	02/22/23 01:47	1
o-Terphenyl	111		70 - 130				02/21/23 14:51	02/22/23 01:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	176		5.05		mg/Kg			02/24/23 06:27	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-33

Lab Sample ID: 880-24905-33

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:29	02/22/23 17:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:29	02/22/23 17:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:29	02/22/23 17:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/21/23 14:29	02/22/23 17:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:29	02/22/23 17:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/21/23 14:29	02/22/23 17:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	02/21/23 14:29	02/22/23 17:18	1
1,4-Difluorobenzene (Surr)	92		70 - 130	02/21/23 14:29	02/22/23 17:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/22/23 17:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/22/23 16:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	49.9		mg/Kg		02/21/23 14:51	02/22/23 02:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 14:51	02/22/23 02:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 14:51	02/22/23 02:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	192	S1+	70 - 130	02/21/23 14:51	02/22/23 02:10	1
o-Terphenyl	204	S1+	70 - 130	02/21/23 14:51	02/22/23 02:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	889		5.00		mg/Kg			02/24/23 06:33	1

Client Sample ID: BH-34

Lab Sample ID: 880-24905-34

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U **	0.00202		mg/Kg		02/22/23 14:24	02/23/23 05:32	1
Toluene	<0.00202	U **	0.00202		mg/Kg		02/22/23 14:24	02/23/23 05:32	1
Ethylbenzene	<0.00202	U **	0.00202		mg/Kg		02/22/23 14:24	02/23/23 05:32	1
m-Xylene & p-Xylene	<0.00403	U **	0.00403		mg/Kg		02/22/23 14:24	02/23/23 05:32	1
o-Xylene	<0.00202	U **	0.00202		mg/Kg		02/22/23 14:24	02/23/23 05:32	1
Xylenes, Total	<0.00403	U **	0.00403		mg/Kg		02/22/23 14:24	02/23/23 05:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	02/22/23 14:24	02/23/23 05:32	1
1,4-Difluorobenzene (Surr)	70		70 - 130	02/22/23 14:24	02/23/23 05:32	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-34

Lab Sample ID: 880-24905-34

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			02/23/23 12:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/22/23 16:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	49.9		mg/Kg		02/21/23 14:51	02/22/23 02:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 14:51	02/22/23 02:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 14:51	02/22/23 02:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				02/21/23 14:51	02/22/23 02:31	1
o-Terphenyl	114		70 - 130				02/21/23 14:51	02/22/23 02:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	438		4.98		mg/Kg			02/24/23 06:52	1

Client Sample ID: BH-35

Lab Sample ID: 880-24905-35

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:29	02/22/23 17:59	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:29	02/22/23 17:59	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:29	02/22/23 17:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/21/23 14:29	02/22/23 17:59	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:29	02/22/23 17:59	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/21/23 14:29	02/22/23 17:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				02/21/23 14:29	02/22/23 17:59	1
1,4-Difluorobenzene (Surr)	90		70 - 130				02/21/23 14:29	02/22/23 17:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/23/23 12:23	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/22/23 16:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	49.9		mg/Kg		02/21/23 14:51	02/22/23 02:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 14:51	02/22/23 02:53	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-35

Lab Sample ID: 880-24905-35

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 14:51	02/22/23 02:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				02/21/23 14:51	02/22/23 02:53	1
o-Terphenyl	113		70 - 130				02/21/23 14:51	02/22/23 02:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	337		5.02		mg/Kg			02/24/23 06:58	1

Client Sample ID: BH-36

Lab Sample ID: 880-24905-36

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:29	02/22/23 18:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:29	02/22/23 18:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:29	02/22/23 18:20	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/21/23 14:29	02/22/23 18:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:29	02/22/23 18:20	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/21/23 14:29	02/22/23 18:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				02/21/23 14:29	02/22/23 18:20	1
1,4-Difluorobenzene (Surr)	84		70 - 130				02/21/23 14:29	02/22/23 18:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/23/23 12:23	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/22/23 16:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	49.9		mg/Kg		02/21/23 14:51	02/22/23 03:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 14:51	02/22/23 03:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 14:51	02/22/23 03:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				02/21/23 14:51	02/22/23 03:16	1
o-Terphenyl	112		70 - 130				02/21/23 14:51	02/22/23 03:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2520		24.9		mg/Kg			02/24/23 07:04	5

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-1

Lab Sample ID: 880-24905-37

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/21/23 14:29	02/22/23 18:40	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/21/23 14:29	02/22/23 18:40	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/21/23 14:29	02/22/23 18:40	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/21/23 14:29	02/22/23 18:40	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/21/23 14:29	02/22/23 18:40	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/21/23 14:29	02/22/23 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	02/21/23 14:29	02/22/23 18:40	1
1,4-Difluorobenzene (Surr)	87		70 - 130	02/21/23 14:29	02/22/23 18:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/23/23 12:23	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/22/23 16:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	49.9		mg/Kg		02/21/23 14:51	02/22/23 03:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 14:51	02/22/23 03:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 14:51	02/22/23 03:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	02/21/23 14:51	02/22/23 03:38	1
o-Terphenyl	87		70 - 130	02/21/23 14:51	02/22/23 03:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	490		4.96		mg/Kg			02/24/23 07:10	1

Client Sample ID: SW-2

Lab Sample ID: 880-24905-38

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:29	02/22/23 19:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:29	02/22/23 19:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:29	02/22/23 19:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/21/23 14:29	02/22/23 19:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:29	02/22/23 19:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/21/23 14:29	02/22/23 19:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	02/21/23 14:29	02/22/23 19:01	1
1,4-Difluorobenzene (Surr)	81		70 - 130	02/21/23 14:29	02/22/23 19:01	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-2

Lab Sample ID: 880-24905-38

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/23/23 12:23	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/22/23 16:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *-	50.0		mg/Kg		02/21/23 14:51	02/22/23 04:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/21/23 14:51	02/22/23 04:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/21/23 14:51	02/22/23 04:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				02/21/23 14:51	02/22/23 04:01	1
o-Terphenyl	94		70 - 130				02/21/23 14:51	02/22/23 04:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.1		4.98		mg/Kg			02/24/23 07:16	1

Client Sample ID: SW-3

Lab Sample ID: 880-24905-39

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U F1	0.00201		mg/Kg		02/21/23 14:31	02/22/23 12:04	1
Toluene	<0.00201	U F1	0.00201		mg/Kg		02/21/23 14:31	02/22/23 12:04	1
Ethylbenzene	<0.00201	U F1	0.00201		mg/Kg		02/21/23 14:31	02/22/23 12:04	1
m-Xylene & p-Xylene	<0.00402	U F1	0.00402		mg/Kg		02/21/23 14:31	02/22/23 12:04	1
o-Xylene	<0.00201	U *- *1	0.00201		mg/Kg		02/21/23 14:31	02/22/23 12:04	1
Xylenes, Total	<0.00402	U F1	0.00402		mg/Kg		02/21/23 14:31	02/22/23 12:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	161	S1+	70 - 130				02/21/23 14:31	02/22/23 12:04	1
1,4-Difluorobenzene (Surr)	77		70 - 130				02/21/23 14:31	02/22/23 12:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/23/23 12:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/22/23 16:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *-	50.0		mg/Kg		02/21/23 14:51	02/22/23 04:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/21/23 14:51	02/22/23 04:23	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-3

Lab Sample ID: 880-24905-39

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/21/23 14:51	02/22/23 04:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				02/21/23 14:51	02/22/23 04:23	1
o-Terphenyl	105		70 - 130				02/21/23 14:51	02/22/23 04:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.6		4.99		mg/Kg			02/24/23 07:22	1

Client Sample ID: SW-4

Lab Sample ID: 880-24905-40

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/21/23 14:31	02/22/23 12:30	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/21/23 14:31	02/22/23 12:30	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/21/23 14:31	02/22/23 12:30	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/21/23 14:31	02/22/23 12:30	1
o-Xylene	<0.00198	U * - *1	0.00198		mg/Kg		02/21/23 14:31	02/22/23 12:30	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/21/23 14:31	02/22/23 12:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	179	S1+	70 - 130				02/21/23 14:31	02/22/23 12:30	1
1,4-Difluorobenzene (Surr)	84		70 - 130				02/21/23 14:31	02/22/23 12:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/23/23 12:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/22/23 16:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	49.9		mg/Kg		02/21/23 14:51	02/22/23 04:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 14:51	02/22/23 04:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 14:51	02/22/23 04:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				02/21/23 14:51	02/22/23 04:46	1
o-Terphenyl	86		70 - 130				02/21/23 14:51	02/22/23 04:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.9		4.97		mg/Kg			02/24/23 07:29	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-5

Lab Sample ID: 880-24905-41

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:31	02/22/23 12:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:31	02/22/23 12:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:31	02/22/23 12:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/21/23 14:31	02/22/23 12:57	1
o-Xylene	<0.00199	U *- *1	0.00199		mg/Kg		02/21/23 14:31	02/22/23 12:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/21/23 14:31	02/22/23 12:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	181	S1+	70 - 130	02/21/23 14:31	02/22/23 12:57	1
1,4-Difluorobenzene (Surr)	80		70 - 130	02/21/23 14:31	02/22/23 12:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/23/23 12:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/21/23 10:25	02/22/23 22:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/21/23 10:25	02/22/23 22:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/21/23 10:25	02/22/23 22:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	02/21/23 10:25	02/22/23 22:07	1
o-Terphenyl	100		70 - 130	02/21/23 10:25	02/22/23 22:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	128		4.98		mg/Kg			02/24/23 08:46	1

Client Sample ID: SW-6

Lab Sample ID: 880-24905-42

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:31	02/22/23 13:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:31	02/22/23 13:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:31	02/22/23 13:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/21/23 14:31	02/22/23 13:23	1
o-Xylene	<0.00199	U *- *1	0.00199		mg/Kg		02/21/23 14:31	02/22/23 13:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/21/23 14:31	02/22/23 13:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	190	S1+	70 - 130	02/21/23 14:31	02/22/23 13:23	1
1,4-Difluorobenzene (Surr)	74		70 - 130	02/21/23 14:31	02/22/23 13:23	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-6

Lab Sample ID: 880-24905-42

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/23/23 12:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/21/23 10:25	02/22/23 23:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/21/23 10:25	02/22/23 23:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/21/23 10:25	02/22/23 23:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				02/21/23 10:25	02/22/23 23:11	1
o-Terphenyl	103		70 - 130				02/21/23 10:25	02/22/23 23:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1130		5.00		mg/Kg			02/24/23 09:04	1

Client Sample ID: SW-7

Lab Sample ID: 880-24905-43

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:31	02/22/23 13:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:31	02/22/23 13:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:31	02/22/23 13:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/21/23 14:31	02/22/23 13:50	1
o-Xylene	<0.00200	U * - *1	0.00200		mg/Kg		02/21/23 14:31	02/22/23 13:50	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/21/23 14:31	02/22/23 13:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	174	S1+	70 - 130				02/21/23 14:31	02/22/23 13:50	1
1,4-Difluorobenzene (Surr)	76		70 - 130				02/21/23 14:31	02/22/23 13:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/23/23 12:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/22/23 23:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/22/23 23:32	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-7

Lab Sample ID: 880-24905-43

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/22/23 23:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				02/21/23 10:25	02/22/23 23:32	1
o-Terphenyl	100		70 - 130				02/21/23 10:25	02/22/23 23:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	136		4.99		mg/Kg			02/24/23 09:10	1

Client Sample ID: SW-8

Lab Sample ID: 880-24905-44

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:31	02/22/23 14:16	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:31	02/22/23 14:16	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:31	02/22/23 14:16	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/21/23 14:31	02/22/23 14:16	1
o-Xylene	<0.00201	U * - *1	0.00201		mg/Kg		02/21/23 14:31	02/22/23 14:16	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/21/23 14:31	02/22/23 14:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	179	S1+	70 - 130				02/21/23 14:31	02/22/23 14:16	1
1,4-Difluorobenzene (Surr)	70		70 - 130				02/21/23 14:31	02/22/23 14:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/23/23 12:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/21/23 10:25	02/22/23 23:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/21/23 10:25	02/22/23 23:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/21/23 10:25	02/22/23 23:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				02/21/23 10:25	02/22/23 23:54	1
o-Terphenyl	103		70 - 130				02/21/23 10:25	02/22/23 23:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.4		4.95		mg/Kg			02/24/23 09:17	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-9

Lab Sample ID: 880-24905-45

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:31	02/22/23 14:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:31	02/22/23 14:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:31	02/22/23 14:43	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/21/23 14:31	02/22/23 14:43	1
o-Xylene	<0.00200	U *- *1	0.00200		mg/Kg		02/21/23 14:31	02/22/23 14:43	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/21/23 14:31	02/22/23 14:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	175	S1+	70 - 130	02/21/23 14:31	02/22/23 14:43	1
1,4-Difluorobenzene (Surr)	79		70 - 130	02/21/23 14:31	02/22/23 14:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/23/23 12:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/23/23 00:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/23/23 00:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/23/23 00:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	02/21/23 10:25	02/23/23 00:15	1
o-Terphenyl	102		70 - 130	02/21/23 10:25	02/23/23 00:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.6		5.00		mg/Kg			02/24/23 09:23	1

Client Sample ID: SW-10

Lab Sample ID: 880-24905-46

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:31	02/22/23 15:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:31	02/22/23 15:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:31	02/22/23 15:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/21/23 14:31	02/22/23 15:09	1
o-Xylene	<0.00199	U *- *1	0.00199		mg/Kg		02/21/23 14:31	02/22/23 15:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/21/23 14:31	02/22/23 15:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	200	S1+	70 - 130	02/21/23 14:31	02/22/23 15:09	1
1,4-Difluorobenzene (Surr)	73		70 - 130	02/21/23 14:31	02/22/23 15:09	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-10

Lab Sample ID: 880-24905-46

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/23/23 12:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/21/23 10:25	02/23/23 00:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/21/23 10:25	02/23/23 00:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/21/23 10:25	02/23/23 00:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				02/21/23 10:25	02/23/23 00:36	1
o-Terphenyl	100		70 - 130				02/21/23 10:25	02/23/23 00:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.3		4.97		mg/Kg			02/24/23 09:41	1

Client Sample ID: SW-11

Lab Sample ID: 880-24905-47

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:31	02/22/23 15:35	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:31	02/22/23 15:35	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:31	02/22/23 15:35	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/21/23 14:31	02/22/23 15:35	1
o-Xylene	<0.00201	U * - *1	0.00201		mg/Kg		02/21/23 14:31	02/22/23 15:35	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/21/23 14:31	02/22/23 15:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	185	S1+	70 - 130				02/21/23 14:31	02/22/23 15:35	1
1,4-Difluorobenzene (Surr)	80		70 - 130				02/21/23 14:31	02/22/23 15:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/23/23 12:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/23/23 00:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/23/23 00:58	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-11

Lab Sample ID: 880-24905-47

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/23/23 00:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				02/21/23 10:25	02/23/23 00:58	1
o-Terphenyl	113		70 - 130				02/21/23 10:25	02/23/23 00:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	178		4.99		mg/Kg			02/24/23 09:47	1

Client Sample ID: SW-12

Lab Sample ID: 880-24905-48

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:31	02/22/23 16:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:31	02/22/23 16:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:31	02/22/23 16:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/21/23 14:31	02/22/23 16:01	1
o-Xylene	<0.00199	U * - *1	0.00199		mg/Kg		02/21/23 14:31	02/22/23 16:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/21/23 14:31	02/22/23 16:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	200	S1+	70 - 130				02/21/23 14:31	02/22/23 16:01	1
1,4-Difluorobenzene (Surr)	71		70 - 130				02/21/23 14:31	02/22/23 16:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/23/23 12:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/23/23 01:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/23/23 01:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/23/23 01:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				02/21/23 10:25	02/23/23 01:20	1
o-Terphenyl	94		70 - 130				02/21/23 10:25	02/23/23 01:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.6		5.02		mg/Kg			02/24/23 09:53	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-13

Lab Sample ID: 880-24905-49

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:31	02/22/23 17:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:31	02/22/23 17:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:31	02/22/23 17:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/21/23 14:31	02/22/23 17:54	1
o-Xylene	<0.00199	U *- *1	0.00199		mg/Kg		02/21/23 14:31	02/22/23 17:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/21/23 14:31	02/22/23 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	185	S1+	70 - 130	02/21/23 14:31	02/22/23 17:54	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130	02/21/23 14:31	02/22/23 17:54	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/23/23 12:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/23/23 01:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/23/23 01:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/23/23 01:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	02/21/23 10:25	02/23/23 01:41	1
o-Terphenyl	98		70 - 130	02/21/23 10:25	02/23/23 01:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.1		4.95		mg/Kg			02/24/23 10:00	1

Client Sample ID: SW-14

Lab Sample ID: 880-24905-50

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:31	02/22/23 18:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:31	02/22/23 18:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:31	02/22/23 18:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/21/23 14:31	02/22/23 18:20	1
o-Xylene	<0.00200	U *- *1	0.00200		mg/Kg		02/21/23 14:31	02/22/23 18:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/21/23 14:31	02/22/23 18:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	194	S1+	70 - 130	02/21/23 14:31	02/22/23 18:20	1
1,4-Difluorobenzene (Surr)	73		70 - 130	02/21/23 14:31	02/22/23 18:20	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-14

Lab Sample ID: 880-24905-50

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/23/23 12:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/23/23 02:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/23/23 02:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/23/23 02:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				02/21/23 10:25	02/23/23 02:02	1
o-Terphenyl	95		70 - 130				02/21/23 10:25	02/23/23 02:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.9		5.01		mg/Kg			02/24/23 10:06	1

Client Sample ID: SW-15

Lab Sample ID: 880-24905-51

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:31	02/22/23 18:46	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:31	02/22/23 18:46	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:31	02/22/23 18:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/21/23 14:31	02/22/23 18:46	1
o-Xylene	<0.00201	U * - *1	0.00201		mg/Kg		02/21/23 14:31	02/22/23 18:46	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/21/23 14:31	02/22/23 18:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	208	S1+	70 - 130				02/21/23 14:31	02/22/23 18:46	1
1,4-Difluorobenzene (Surr)	77		70 - 130				02/21/23 14:31	02/22/23 18:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/23/23 12:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/21/23 10:25	02/23/23 02:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/21/23 10:25	02/23/23 02:45	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-15

Lab Sample ID: 880-24905-51

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/21/23 10:25	02/23/23 02:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				02/21/23 10:25	02/23/23 02:45	1
o-Terphenyl	99		70 - 130				02/21/23 10:25	02/23/23 02:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.3		4.97		mg/Kg			02/24/23 10:12	1

Client Sample ID: SW-16

Lab Sample ID: 880-24905-52

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:31	02/22/23 19:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:31	02/22/23 19:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:31	02/22/23 19:12	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/21/23 14:31	02/22/23 19:12	1
o-Xylene	<0.00200	U * - *1	0.00200		mg/Kg		02/21/23 14:31	02/22/23 19:12	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/21/23 14:31	02/22/23 19:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	187	S1+	70 - 130				02/21/23 14:31	02/22/23 19:12	1
1,4-Difluorobenzene (Surr)	73		70 - 130				02/21/23 14:31	02/22/23 19:12	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/23/23 12:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/23/23 03:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/23/23 03:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/23/23 03:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				02/21/23 10:25	02/23/23 03:06	1
o-Terphenyl	94		70 - 130				02/21/23 10:25	02/23/23 03:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	499		5.00		mg/Kg			02/24/23 10:30	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-17

Lab Sample ID: 880-24905-53

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/21/23 14:31	02/22/23 19:38	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/21/23 14:31	02/22/23 19:38	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/21/23 14:31	02/22/23 19:38	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/21/23 14:31	02/22/23 19:38	1
o-Xylene	<0.00198	U *- *1	0.00198		mg/Kg		02/21/23 14:31	02/22/23 19:38	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/21/23 14:31	02/22/23 19:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	200	S1+	70 - 130	02/21/23 14:31	02/22/23 19:38	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130	02/21/23 14:31	02/22/23 19:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/23/23 12:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/23/23 03:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/23/23 03:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/23/23 03:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	02/21/23 10:25	02/23/23 03:28	1
o-Terphenyl	110		70 - 130	02/21/23 10:25	02/23/23 03:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.0		4.99		mg/Kg			02/24/23 10:37	1

Client Sample ID: SW-18

Lab Sample ID: 880-24905-54

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/21/23 14:31	02/22/23 20:03	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/21/23 14:31	02/22/23 20:03	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/21/23 14:31	02/22/23 20:03	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		02/21/23 14:31	02/22/23 20:03	1
o-Xylene	<0.00198	U *- *1	0.00198		mg/Kg		02/21/23 14:31	02/22/23 20:03	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		02/21/23 14:31	02/22/23 20:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	228	S1+	70 - 130	02/21/23 14:31	02/22/23 20:03	1
1,4-Difluorobenzene (Surr)	77		70 - 130	02/21/23 14:31	02/22/23 20:03	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-18

Lab Sample ID: 880-24905-54

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			02/23/23 12:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/23/23 03:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/23/23 03:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/23/23 03:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				02/21/23 10:25	02/23/23 03:49	1
o-Terphenyl	103		70 - 130				02/21/23 10:25	02/23/23 03:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95		mg/Kg			02/24/23 10:55	1

Client Sample ID: SW-19

Lab Sample ID: 880-24905-55

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:31	02/22/23 20:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:31	02/22/23 20:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:31	02/22/23 20:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/21/23 14:31	02/22/23 20:29	1
o-Xylene	<0.00199	U * - *1	0.00199		mg/Kg		02/21/23 14:31	02/22/23 20:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/21/23 14:31	02/22/23 20:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	161	S1+	70 - 130				02/21/23 14:31	02/22/23 20:29	1
1,4-Difluorobenzene (Surr)	74		70 - 130				02/21/23 14:31	02/22/23 20:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/23/23 12:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/21/23 10:25	02/23/23 04:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/21/23 10:25	02/23/23 04:10	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-19

Lab Sample ID: 880-24905-55

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/21/23 10:25	02/23/23 04:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				02/21/23 10:25	02/23/23 04:10	1
o-Terphenyl	98		70 - 130				02/21/23 10:25	02/23/23 04:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	118		4.95		mg/Kg			02/24/23 11:01	1

Client Sample ID: SW-20

Lab Sample ID: 880-24905-56

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:31	02/22/23 20:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:31	02/22/23 20:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:31	02/22/23 20:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/21/23 14:31	02/22/23 20:55	1
o-Xylene	<0.00199	U * - *1	0.00199		mg/Kg		02/21/23 14:31	02/22/23 20:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/21/23 14:31	02/22/23 20:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	216	S1+	70 - 130				02/21/23 14:31	02/22/23 20:55	1
1,4-Difluorobenzene (Surr)	76		70 - 130				02/21/23 14:31	02/22/23 20:55	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/23/23 12:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/21/23 10:25	02/23/23 04:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/21/23 10:25	02/23/23 04:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/21/23 10:25	02/23/23 04:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				02/21/23 10:25	02/23/23 04:32	1
o-Terphenyl	110		70 - 130				02/21/23 10:25	02/23/23 04:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.7		4.97		mg/Kg			02/24/23 11:08	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-21

Lab Sample ID: 880-24905-57

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:31	02/22/23 21:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:31	02/22/23 21:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:31	02/22/23 21:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/21/23 14:31	02/22/23 21:20	1
o-Xylene	<0.00200	U *- *1	0.00200		mg/Kg		02/21/23 14:31	02/22/23 21:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/21/23 14:31	02/22/23 21:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	197	S1+	70 - 130	02/21/23 14:31	02/22/23 21:20	1
1,4-Difluorobenzene (Surr)	73		70 - 130	02/21/23 14:31	02/22/23 21:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/23/23 12:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/23/23 04:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/23/23 04:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/23/23 04:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	02/21/23 10:25	02/23/23 04:53	1
o-Terphenyl	108		70 - 130	02/21/23 10:25	02/23/23 04:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.3		5.04		mg/Kg			02/24/23 11:14	1

Client Sample ID: SW-22

Lab Sample ID: 880-24905-58

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:31	02/22/23 21:46	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:31	02/22/23 21:46	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:31	02/22/23 21:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/21/23 14:31	02/22/23 21:46	1
o-Xylene	<0.00201	U *- *1	0.00201		mg/Kg		02/21/23 14:31	02/22/23 21:46	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/21/23 14:31	02/22/23 21:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	213	S1+	70 - 130	02/21/23 14:31	02/22/23 21:46	1
1,4-Difluorobenzene (Surr)	68	S1-	70 - 130	02/21/23 14:31	02/22/23 21:46	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-22

Lab Sample ID: 880-24905-58

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/23/23 12:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/23/23 05:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/23/23 05:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/23/23 05:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				02/21/23 10:25	02/23/23 05:15	1
o-Terphenyl	113		70 - 130				02/21/23 10:25	02/23/23 05:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.5		4.99		mg/Kg			02/24/23 11:20	1

Client Sample ID: SW-23

Lab Sample ID: 880-24905-59

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:34	02/22/23 12:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:34	02/22/23 12:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:34	02/22/23 12:11	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/21/23 14:34	02/22/23 12:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:34	02/22/23 12:11	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/21/23 14:34	02/22/23 12:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				02/21/23 14:34	02/22/23 12:11	1
1,4-Difluorobenzene (Surr)	107		70 - 130				02/21/23 14:34	02/22/23 12:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/23/23 12:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/23/23 05:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/23/23 05:36	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-23

Lab Sample ID: 880-24905-59

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/23/23 05:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				02/21/23 10:25	02/23/23 05:36	1
o-Terphenyl	116		70 - 130				02/21/23 10:25	02/23/23 05:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		4.96		mg/Kg			02/24/23 11:26	1

Client Sample ID: SW-24

Lab Sample ID: 880-24905-60

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:34	02/22/23 12:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:34	02/22/23 12:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:34	02/22/23 12:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/21/23 14:34	02/22/23 12:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:34	02/22/23 12:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/21/23 14:34	02/22/23 12:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				02/21/23 14:34	02/22/23 12:32	1
1,4-Difluorobenzene (Surr)	118		70 - 130				02/21/23 14:34	02/22/23 12:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/23/23 12:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/23/23 05:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/23/23 05:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 10:25	02/23/23 05:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				02/21/23 10:25	02/23/23 05:58	1
o-Terphenyl	89		70 - 130				02/21/23 10:25	02/23/23 05:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.6		4.96		mg/Kg			02/24/23 11:32	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-25

Lab Sample ID: 880-24905-61

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		02/21/23 14:34	02/22/23 13:19	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/21/23 14:34	02/22/23 13:19	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/21/23 14:34	02/22/23 13:19	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		02/21/23 14:34	02/22/23 13:19	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/21/23 14:34	02/22/23 13:19	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		02/21/23 14:34	02/22/23 13:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	02/21/23 14:34	02/22/23 13:19	1
1,4-Difluorobenzene (Surr)	99		70 - 130	02/21/23 14:34	02/22/23 13:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			02/23/23 12:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 10:29	02/22/23 12:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 10:29	02/22/23 12:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 10:29	02/22/23 12:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	02/21/23 10:29	02/22/23 12:17	1
o-Terphenyl	112		70 - 130	02/21/23 10:29	02/22/23 12:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.2		5.02		mg/Kg			02/24/23 08:40	1

Client Sample ID: SW-26

Lab Sample ID: 880-24905-62

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/21/23 14:34	02/22/23 17:33	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/21/23 14:34	02/22/23 17:33	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/21/23 14:34	02/22/23 17:33	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/21/23 14:34	02/22/23 17:33	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/21/23 14:34	02/22/23 17:33	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/21/23 14:34	02/22/23 17:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	02/21/23 14:34	02/22/23 17:33	1
1,4-Difluorobenzene (Surr)	118		70 - 130	02/21/23 14:34	02/22/23 17:33	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-26

Lab Sample ID: 880-24905-62

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/23/23 12:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 10:29	02/22/23 13:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 10:29	02/22/23 13:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 10:29	02/22/23 13:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130				02/21/23 10:29	02/22/23 13:22	1
o-Terphenyl	127		70 - 130				02/21/23 10:29	02/22/23 13:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.6		5.02		mg/Kg			02/24/23 08:54	1

Client Sample ID: SW-27

Lab Sample ID: 880-24905-63

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:34	02/22/23 17:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:34	02/22/23 17:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:34	02/22/23 17:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/21/23 14:34	02/22/23 17:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:34	02/22/23 17:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/21/23 14:34	02/22/23 17:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				02/21/23 14:34	02/22/23 17:53	1
1,4-Difluorobenzene (Surr)	105		70 - 130				02/21/23 14:34	02/22/23 17:53	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/23/23 12:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 10:29	02/22/23 13:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 10:29	02/22/23 13:44	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-27

Lab Sample ID: 880-24905-63

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 10:29	02/22/23 13:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				02/21/23 10:29	02/22/23 13:44	1
o-Terphenyl	102		70 - 130				02/21/23 10:29	02/22/23 13:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4420		49.9		mg/Kg			02/24/23 08:59	10

Client Sample ID: SW-28

Lab Sample ID: 880-24905-64

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:34	02/22/23 18:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:34	02/22/23 18:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:34	02/22/23 18:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/21/23 14:34	02/22/23 18:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:34	02/22/23 18:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/21/23 14:34	02/22/23 18:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				02/21/23 14:34	02/22/23 18:14	1
1,4-Difluorobenzene (Surr)	118		70 - 130				02/21/23 14:34	02/22/23 18:14	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/23/23 12:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	378		49.9		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 10:29	02/22/23 14:06	1
Diesel Range Organics (Over C10-C28)	319		49.9		mg/Kg		02/21/23 10:29	02/22/23 14:06	1
Oil Range Organics (Over C28-C36)	59.0		49.9		mg/Kg		02/21/23 10:29	02/22/23 14:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				02/21/23 10:29	02/22/23 14:06	1
o-Terphenyl	119		70 - 130				02/21/23 10:29	02/22/23 14:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8520		50.5		mg/Kg			02/24/23 09:03	10

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-29

Lab Sample ID: 880-24905-65

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:34	02/22/23 18:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:34	02/22/23 18:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:34	02/22/23 18:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/21/23 14:34	02/22/23 18:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:34	02/22/23 18:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/21/23 14:34	02/22/23 18:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	02/21/23 14:34	02/22/23 18:35	1
1,4-Difluorobenzene (Surr)	114		70 - 130	02/21/23 14:34	02/22/23 18:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/23/23 12:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 10:29	02/22/23 14:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 10:29	02/22/23 14:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 10:29	02/22/23 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	02/21/23 10:29	02/22/23 14:27	1
o-Terphenyl	118		70 - 130	02/21/23 10:29	02/22/23 14:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	118		5.04		mg/Kg			02/24/23 09:08	1

Client Sample ID: SW-30

Lab Sample ID: 880-24905-66

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:34	02/22/23 18:56	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:34	02/22/23 18:56	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:34	02/22/23 18:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/21/23 14:34	02/22/23 18:56	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:34	02/22/23 18:56	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/21/23 14:34	02/22/23 18:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	02/21/23 14:34	02/22/23 18:56	1
1,4-Difluorobenzene (Surr)	117		70 - 130	02/21/23 14:34	02/22/23 18:56	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-30

Lab Sample ID: 880-24905-66

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/23/23 12:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/21/23 10:29	02/22/23 14:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/21/23 10:29	02/22/23 14:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/21/23 10:29	02/22/23 14:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				02/21/23 10:29	02/22/23 14:50	1
o-Terphenyl	117		70 - 130				02/21/23 10:29	02/22/23 14:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2040		25.0		mg/Kg			02/24/23 09:22	5

Client Sample ID: SW-31

Lab Sample ID: 880-24905-67

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:34	02/22/23 19:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:34	02/22/23 19:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:34	02/22/23 19:16	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/21/23 14:34	02/22/23 19:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:34	02/22/23 19:16	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/21/23 14:34	02/22/23 19:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				02/21/23 14:34	02/22/23 19:16	1
1,4-Difluorobenzene (Surr)	112		70 - 130				02/21/23 14:34	02/22/23 19:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/23/23 12:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/21/23 10:29	02/22/23 15:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/21/23 10:29	02/22/23 15:12	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-31

Lab Sample ID: 880-24905-67

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/21/23 10:29	02/22/23 15:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				02/21/23 10:29	02/22/23 15:12	1
o-Terphenyl	98		70 - 130				02/21/23 10:29	02/22/23 15:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3610		25.0		mg/Kg			02/24/23 09:27	5

Client Sample ID: SW-32

Lab Sample ID: 880-24905-68

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/21/23 14:34	02/22/23 19:37	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/21/23 14:34	02/22/23 19:37	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/21/23 14:34	02/22/23 19:37	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/21/23 14:34	02/22/23 19:37	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/21/23 14:34	02/22/23 19:37	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/21/23 14:34	02/22/23 19:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				02/21/23 14:34	02/22/23 19:37	1
1,4-Difluorobenzene (Surr)	116		70 - 130				02/21/23 14:34	02/22/23 19:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/23/23 12:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 10:29	02/22/23 15:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 10:29	02/22/23 15:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 10:29	02/22/23 15:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				02/21/23 10:29	02/22/23 15:34	1
o-Terphenyl	117		70 - 130				02/21/23 10:29	02/22/23 15:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85.4		5.03		mg/Kg			02/24/23 09:31	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-33

Lab Sample ID: 880-24905-69

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:34	02/22/23 21:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:34	02/22/23 21:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:34	02/22/23 21:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/21/23 14:34	02/22/23 21:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:34	02/22/23 21:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/21/23 14:34	02/22/23 21:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	02/21/23 14:34	02/22/23 21:00	1
1,4-Difluorobenzene (Surr)	100		70 - 130	02/21/23 14:34	02/22/23 21:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/23/23 12:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 10:29	02/22/23 15:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 10:29	02/22/23 15:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 10:29	02/22/23 15:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	02/21/23 10:29	02/22/23 15:56	1
o-Terphenyl	122		70 - 130	02/21/23 10:29	02/22/23 15:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5180		50.2		mg/Kg			02/24/23 09:36	10

Client Sample ID: SW-34

Lab Sample ID: 880-24905-70

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:34	02/22/23 21:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:34	02/22/23 21:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:34	02/22/23 21:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/21/23 14:34	02/22/23 21:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:34	02/22/23 21:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/21/23 14:34	02/22/23 21:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	02/21/23 14:34	02/22/23 21:21	1
1,4-Difluorobenzene (Surr)	115		70 - 130	02/21/23 14:34	02/22/23 21:21	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-34

Lab Sample ID: 880-24905-70

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/23/23 12:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 10:29	02/22/23 16:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 10:29	02/22/23 16:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 10:29	02/22/23 16:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				02/21/23 10:29	02/22/23 16:18	1
o-Terphenyl	108		70 - 130				02/21/23 10:29	02/22/23 16:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	97.6		4.98		mg/Kg			02/24/23 09:41	1

Client Sample ID: SW-35

Lab Sample ID: 880-24905-71

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:34	02/22/23 21:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:34	02/22/23 21:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:34	02/22/23 21:41	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/21/23 14:34	02/22/23 21:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:34	02/22/23 21:41	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/21/23 14:34	02/22/23 21:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				02/21/23 14:34	02/22/23 21:41	1
1,4-Difluorobenzene (Surr)	112		70 - 130				02/21/23 14:34	02/22/23 21:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/23/23 12:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/21/23 10:29	02/22/23 17:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/21/23 10:29	02/22/23 17:03	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-35

Lab Sample ID: 880-24905-71

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/21/23 10:29	02/22/23 17:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				02/21/23 10:29	02/22/23 17:03	1
o-Terphenyl	104		70 - 130				02/21/23 10:29	02/22/23 17:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11600	F1	99.2		mg/Kg			02/24/23 09:45	20

Client Sample ID: SW-36

Lab Sample ID: 880-24905-72

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:34	02/22/23 22:02	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:34	02/22/23 22:02	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:34	02/22/23 22:02	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/21/23 14:34	02/22/23 22:02	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:34	02/22/23 22:02	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/21/23 14:34	02/22/23 22:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				02/21/23 14:34	02/22/23 22:02	1
1,4-Difluorobenzene (Surr)	111		70 - 130				02/21/23 14:34	02/22/23 22:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/23/23 12:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 10:29	02/22/23 17:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 10:29	02/22/23 17:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 10:29	02/22/23 17:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				02/21/23 10:29	02/22/23 17:26	1
o-Terphenyl	94		70 - 130				02/21/23 10:29	02/22/23 17:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	89.6		4.96		mg/Kg			02/24/23 09:59	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-37

Lab Sample ID: 880-24905-73

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:34	02/22/23 22:23	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:34	02/22/23 22:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:34	02/22/23 22:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/21/23 14:34	02/22/23 22:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/21/23 14:34	02/22/23 22:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/21/23 14:34	02/22/23 22:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	02/21/23 14:34	02/22/23 22:23	1
1,4-Difluorobenzene (Surr)	119		70 - 130	02/21/23 14:34	02/22/23 22:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/23/23 12:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	122		49.9		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 10:29	02/22/23 17:48	1
Diesel Range Organics (Over C10-C28)	122		49.9		mg/Kg		02/21/23 10:29	02/22/23 17:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 10:29	02/22/23 17:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	02/21/23 10:29	02/22/23 17:48	1
o-Terphenyl	98		70 - 130	02/21/23 10:29	02/22/23 17:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	661		4.97		mg/Kg			02/24/23 10:04	1

Client Sample ID: SW-38

Lab Sample ID: 880-24905-74

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/21/23 14:34	02/22/23 22:43	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/21/23 14:34	02/22/23 22:43	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/21/23 14:34	02/22/23 22:43	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/21/23 14:34	02/22/23 22:43	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/21/23 14:34	02/22/23 22:43	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/21/23 14:34	02/22/23 22:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	02/21/23 14:34	02/22/23 22:43	1
1,4-Difluorobenzene (Surr)	112		70 - 130	02/21/23 14:34	02/22/23 22:43	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-38

Lab Sample ID: 880-24905-74

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/23/23 12:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	54.8		50.0		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/21/23 10:29	02/22/23 18:11	1
Diesel Range Organics (Over C10-C28)	54.8		50.0		mg/Kg		02/21/23 10:29	02/22/23 18:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/21/23 10:29	02/22/23 18:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				02/21/23 10:29	02/22/23 18:11	1
o-Terphenyl	94		70 - 130				02/21/23 10:29	02/22/23 18:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1200		25.2		mg/Kg			02/24/23 10:18	5

Client Sample ID: SW-39

Lab Sample ID: 880-24905-75

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:34	02/22/23 23:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:34	02/22/23 23:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:34	02/22/23 23:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/21/23 14:34	02/22/23 23:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:34	02/22/23 23:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/21/23 14:34	02/22/23 23:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				02/21/23 14:34	02/22/23 23:04	1
1,4-Difluorobenzene (Surr)	123		70 - 130				02/21/23 14:34	02/22/23 23:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/23/23 12:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	97.2		49.9		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 10:29	02/22/23 18:33	1
Diesel Range Organics (Over C10-C28)	97.2		49.9		mg/Kg		02/21/23 10:29	02/22/23 18:33	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-39

Lab Sample ID: 880-24905-75

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 10:29	02/22/23 18:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				02/21/23 10:29	02/22/23 18:33	1
o-Terphenyl	96		70 - 130				02/21/23 10:29	02/22/23 18:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1620		25.0		mg/Kg			02/24/23 10:23	5

Client Sample ID: SW-40

Lab Sample ID: 880-24905-76

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:34	02/22/23 23:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:34	02/22/23 23:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:34	02/22/23 23:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/21/23 14:34	02/22/23 23:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/21/23 14:34	02/22/23 23:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/21/23 14:34	02/22/23 23:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				02/21/23 14:34	02/22/23 23:25	1
1,4-Difluorobenzene (Surr)	118		70 - 130				02/21/23 14:34	02/22/23 23:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/23/23 12:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 10:29	02/22/23 18:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 10:29	02/22/23 18:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 10:29	02/22/23 18:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				02/21/23 10:29	02/22/23 18:55	1
o-Terphenyl	125		70 - 130				02/21/23 10:29	02/22/23 18:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5220		49.8		mg/Kg			02/24/23 10:27	10

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-41

Lab Sample ID: 880-24905-77

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:34	02/22/23 23:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:34	02/22/23 23:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:34	02/22/23 23:45	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/21/23 14:34	02/22/23 23:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:34	02/22/23 23:45	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/21/23 14:34	02/22/23 23:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	45	S1-	70 - 130	02/21/23 14:34	02/22/23 23:45	1
1,4-Difluorobenzene (Surr)	83		70 - 130	02/21/23 14:34	02/22/23 23:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/23/23 12:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		02/21/23 10:29	02/22/23 19:16	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		02/21/23 10:29	02/22/23 19:16	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		02/21/23 10:29	02/22/23 19:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	02/21/23 10:29	02/22/23 19:16	1
o-Terphenyl	112		70 - 130	02/21/23 10:29	02/22/23 19:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6520		49.7		mg/Kg			02/24/23 10:32	10

Client Sample ID: SW-42

Lab Sample ID: 880-24905-78

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:34	02/23/23 00:06	1
Toluene	0.00235		0.00200		mg/Kg		02/21/23 14:34	02/23/23 00:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:34	02/23/23 00:06	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/21/23 14:34	02/23/23 00:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:34	02/23/23 00:06	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/21/23 14:34	02/23/23 00:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	02/21/23 14:34	02/23/23 00:06	1
1,4-Difluorobenzene (Surr)	121		70 - 130	02/21/23 14:34	02/23/23 00:06	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-42

Lab Sample ID: 880-24905-78

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/23/23 12:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 10:29	02/22/23 19:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/21/23 10:29	02/22/23 19:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 10:29	02/22/23 19:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				02/21/23 10:29	02/22/23 19:38	1
o-Terphenyl	109		70 - 130				02/21/23 10:29	02/22/23 19:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	191		5.02		mg/Kg			02/24/23 10:37	1

Client Sample ID: SW-43

Lab Sample ID: 880-24905-79

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/22/23 09:33	02/23/23 02:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/22/23 09:33	02/23/23 02:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/22/23 09:33	02/23/23 02:10	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/22/23 09:33	02/23/23 02:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/22/23 09:33	02/23/23 02:10	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/22/23 09:33	02/23/23 02:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				02/22/23 09:33	02/23/23 02:10	1
1,4-Difluorobenzene (Surr)	109		70 - 130				02/22/23 09:33	02/23/23 02:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/23/23 12:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/23/23 11:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/21/23 10:29	02/22/23 20:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/21/23 10:29	02/22/23 20:00	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-43

Lab Sample ID: 880-24905-79

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/21/23 10:29	02/22/23 20:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				02/21/23 10:29	02/22/23 20:00	1
o-Terphenyl	101		70 - 130				02/21/23 10:29	02/22/23 20:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	731		5.01		mg/Kg			02/24/23 10:41	1

Client Sample ID: SW-44

Lab Sample ID: 880-24905-80

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/22/23 09:33	02/23/23 02:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/22/23 09:33	02/23/23 02:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/22/23 09:33	02/23/23 02:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/22/23 09:33	02/23/23 02:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/22/23 09:33	02/23/23 02:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/22/23 09:33	02/23/23 02:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				02/22/23 09:33	02/23/23 02:30	1
1,4-Difluorobenzene (Surr)	113		70 - 130				02/22/23 09:33	02/23/23 02:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/23/23 12:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/27/23 12:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/25/23 08:55	02/25/23 23:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/25/23 08:55	02/25/23 23:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/25/23 08:55	02/25/23 23:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				02/25/23 08:55	02/25/23 23:06	1
o-Terphenyl	113		70 - 130				02/25/23 08:55	02/25/23 23:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2810		24.9		mg/Kg			02/24/23 10:46	5

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-45

Lab Sample ID: 880-24905-81

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/22/23 09:33	02/23/23 02:50	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/22/23 09:33	02/23/23 02:50	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/22/23 09:33	02/23/23 02:50	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/22/23 09:33	02/23/23 02:50	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/22/23 09:33	02/23/23 02:50	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/22/23 09:33	02/23/23 02:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	02/22/23 09:33	02/23/23 02:50	1
1,4-Difluorobenzene (Surr)	111		70 - 130	02/22/23 09:33	02/23/23 02:50	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/23/23 12:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/22/23 16:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 08:38	02/21/23 16:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		02/21/23 08:38	02/21/23 16:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 08:38	02/21/23 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	02/21/23 08:38	02/21/23 16:38	1
o-Terphenyl	85		70 - 130	02/21/23 08:38	02/21/23 16:38	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8250		50.0		mg/Kg			02/24/23 13:06	10

Client Sample ID: SW-46

Lab Sample ID: 880-24905-82

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/22/23 09:33	02/23/23 07:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/22/23 09:33	02/23/23 07:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/22/23 09:33	02/23/23 07:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/22/23 09:33	02/23/23 07:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/22/23 09:33	02/23/23 07:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/22/23 09:33	02/23/23 07:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	02/22/23 09:33	02/23/23 07:03	1
1,4-Difluorobenzene (Surr)	108		70 - 130	02/22/23 09:33	02/23/23 07:03	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-46
Date Collected: 02/16/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-82
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/23/23 12:22	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.9	U	49.9		mg/Kg			02/22/23 16:01	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/21/23 09:30	02/21/23 17:00	1	
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		02/21/23 09:30	02/21/23 17:00	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/21/23 09:30	02/21/23 17:00	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	81		70 - 130				02/21/23 09:30	02/21/23 17:00	1	
o-Terphenyl	75		70 - 130				02/21/23 09:30	02/21/23 17:00	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	157		4.99		mg/Kg			02/24/23 13:11	1	

Surrogate Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-24905-1	BH-1	90	124
880-24905-2	BH-2	113	109
880-24905-3	BH-3	112	111
880-24905-4	BH-4	110	112
880-24905-5	BH-5	109	114
880-24905-6	BH-6	107	103
880-24905-7	BH-7	115	112
880-24905-8	BH-8	106	106
880-24905-9	BH-9	112	113
880-24905-10	BH-10	112	112
880-24905-11	BH-11	110	107
880-24905-12	BH-12	118	111
880-24905-13	BH-13	87	102
880-24905-14	BH-14	111	109
880-24905-15	BH-15	108	106
880-24905-16	BH-16	109	109
880-24905-17	BH-17	112	110
880-24905-18	BH-18	104	107
880-24905-19	BH-19	92	92
880-24905-19 MS	BH-19	121	109
880-24905-19 MSD	BH-19	125	94
880-24905-20	BH-20	99	86
880-24905-21	BH-21	99	91
880-24905-22	BH-22	103	88
880-24905-23	BH-23	93	91
880-24905-24	BH-24	93	88
880-24905-25	BH-25	101	84
880-24905-26	BH-26	94	85
880-24905-27	BH-27	89	66 S1-
880-24905-28	BH-28	119	85
880-24905-29	BH-29	229 S1+	196 S1+
880-24905-30	BH-30	96	88
880-24905-31	BH-31	96	90
880-24905-32	BH-32	105	82
880-24905-33	BH-33	94	92
880-24905-34	BH-34	125	70
880-24905-35	BH-35	95	90
880-24905-36	BH-36	102	84
880-24905-37	SW-1	95	87
880-24905-38	SW-2	96	81
880-24905-39	SW-3	161 S1+	77
880-24905-39 MS	SW-3	179 S1+	106
880-24905-39 MSD	SW-3	170 S1+	83
880-24905-40	SW-4	179 S1+	84
880-24905-41	SW-5	181 S1+	80
880-24905-42	SW-6	190 S1+	74
880-24905-43	SW-7	174 S1+	76
880-24905-44	SW-8	179 S1+	70
880-24905-45	SW-9	175 S1+	79

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Surrogate Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-24905-46	SW-10	200 S1+	73
880-24905-47	SW-11	185 S1+	80
880-24905-48	SW-12	200 S1+	71
880-24905-49	SW-13	185 S1+	69 S1-
880-24905-50	SW-14	194 S1+	73
880-24905-51	SW-15	208 S1+	77
880-24905-52	SW-16	187 S1+	73
880-24905-53	SW-17	200 S1+	69 S1-
880-24905-54	SW-18	228 S1+	77
880-24905-55	SW-19	161 S1+	74
880-24905-56	SW-20	216 S1+	76
880-24905-57	SW-21	197 S1+	73
880-24905-58	SW-22	213 S1+	68 S1-
880-24905-59	SW-23	103	107
880-24905-59 MS	SW-23	95	105
880-24905-59 MSD	SW-23	91	108
880-24905-60	SW-24	115	118
880-24905-61	SW-25	110	99
880-24905-62	SW-26	112	118
880-24905-63	SW-27	121	105
880-24905-64	SW-28	112	118
880-24905-65	SW-29	112	114
880-24905-66	SW-30	120	117
880-24905-67	SW-31	111	112
880-24905-68	SW-32	115	116
880-24905-69	SW-33	105	100
880-24905-70	SW-34	117	115
880-24905-71	SW-35	118	112
880-24905-72	SW-36	110	111
880-24905-73	SW-37	112	119
880-24905-74	SW-38	110	112
880-24905-75	SW-39	115	123
880-24905-76	SW-40	120	118
880-24905-77	SW-41	45 S1-	83
880-24905-78	SW-42	117	121
880-24905-79	SW-43	114	109
880-24905-79 MS	SW-43	111	112
880-24905-79 MSD	SW-43	119	113
880-24905-80	SW-44	121	113
880-24905-81	SW-45	121	111
880-24905-82	SW-46	115	108
LCS 880-46862/1-A	Lab Control Sample	101	113
LCS 880-46865/1-A	Lab Control Sample	123	104
LCS 880-46866/1-A	Lab Control Sample	159 S1+	73
LCS 880-46868/1-A	Lab Control Sample	93	111
LCS 880-46933/1-A	Lab Control Sample	110	113
LCS 880-46948/1-A	Lab Control Sample	199 S1+	83
LCSD 880-46862/2-A	Lab Control Sample Dup	99	112
LCSD 880-46865/2-A	Lab Control Sample Dup	118	111
LCSD 880-46866/2-A	Lab Control Sample Dup	167 S1+	82

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Surrogate Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
LCSD 880-46868/2-A	Lab Control Sample Dup	94	107
LCSD 880-46933/2-A	Lab Control Sample Dup	109	113
LCSD 880-46948/2-A	Lab Control Sample Dup	197 S1+	82
MB 880-46842/5-A	Method Blank	167 S1+	95
MB 880-46862/5-A	Method Blank	102	105
MB 880-46865/5-A	Method Blank	75	91
MB 880-46866/5-A	Method Blank	113	75
MB 880-46868/5-A	Method Blank	82	104
MB 880-46926/8	Method Blank	105	105
MB 880-46933/5-A	Method Blank	105	104
MB 880-46948/5-A	Method Blank	125	71
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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-24905-1	BH-1	98	91
880-24905-1 MS	BH-1	105	80
880-24905-1 MSD	BH-1	105	81
880-24905-2	BH-2	92	90
880-24905-3	BH-3	102	100
880-24905-4	BH-4	116	106
880-24905-5	BH-5	114	105
880-24905-6	BH-6	96	93
880-24905-7	BH-7	95	95
880-24905-8	BH-8	98	96
880-24905-9	BH-9	121	114
880-24905-10	BH-10	106	104
880-24905-11	BH-11	118	113
880-24905-12	BH-12	94	91
880-24905-13	BH-13	114	108
880-24905-14	BH-14	92	90
880-24905-15	BH-15	90	88
880-24905-16	BH-16	106	98
880-24905-17	BH-17	110	102
880-24905-18	BH-18	124	113
880-24905-19	BH-19	104	102
880-24905-20	BH-20	112	107
880-24905-21	BH-21	103	119
880-24905-21 MS	BH-21	130	123
880-24905-21 MSD	BH-21	112	107
880-24905-22	BH-22	110	117
880-24905-23	BH-23	128	131 S1+
880-24905-24	BH-24	102	110
880-24905-25	BH-25	115	124

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Surrogate Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-24905-26	BH-26	111	117
880-24905-27	BH-27	121	128
880-24905-28	BH-28	107	113
880-24905-29	BH-29	100	106
880-24905-30	BH-30	106	111
880-24905-31	BH-31	104	108
880-24905-32	BH-32	103	111
880-24905-33	BH-33	192 S1+	204 S1+
880-24905-34	BH-34	104	114
880-24905-35	BH-35	107	113
880-24905-36	BH-36	107	112
880-24905-37	SW-1	85	87
880-24905-38	SW-2	93	94
880-24905-39	SW-3	106	105
880-24905-40	SW-4	84	86
880-24905-41	SW-5	95	100
880-24905-41 MS	SW-5	17 S1-	11 S1-
880-24905-41 MSD	SW-5	16 S1-	11 S1-
880-24905-42	SW-6	97	103
880-24905-43	SW-7	94	100
880-24905-44	SW-8	98	103
880-24905-45	SW-9	94	102
880-24905-46	SW-10	92	100
880-24905-47	SW-11	107	113
880-24905-48	SW-12	87	94
880-24905-49	SW-13	91	98
880-24905-50	SW-14	89	95
880-24905-51	SW-15	91	99
880-24905-52	SW-16	88	94
880-24905-53	SW-17	103	110
880-24905-54	SW-18	93	103
880-24905-55	SW-19	90	98
880-24905-56	SW-20	104	110
880-24905-57	SW-21	95	108
880-24905-58	SW-22	100	113
880-24905-59	SW-23	110	116
880-24905-60	SW-24	82	89
880-24905-61	SW-25	101	112
880-24905-61 MS	SW-25	102	99
880-24905-61 MSD	SW-25	122	114
880-24905-62	SW-26	117	127
880-24905-63	SW-27	93	102
880-24905-64	SW-28	112	119
880-24905-65	SW-29	113	118
880-24905-66	SW-30	112	117
880-24905-67	SW-31	91	98
880-24905-68	SW-32	112	117
880-24905-69	SW-33	114	122
880-24905-70	SW-34	105	108
880-24905-71	SW-35	94	104

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Surrogate Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-24905-72	SW-36	93	94
880-24905-73	SW-37	91	98
880-24905-74	SW-38	88	94
880-24905-75	SW-39	91	96
880-24905-76	SW-40	121	125
880-24905-77	SW-41	104	112
880-24905-78	SW-42	104	109
880-24905-79	SW-43	94	101
880-24905-80	SW-44	110	113
880-24905-81	SW-45	88	85
880-24905-82	SW-46	81	75
LCS 880-46823/2-A	Lab Control Sample	127	129
LCS 880-46837/2-A	Lab Control Sample	86	93
LCS 880-46838/2-A	Lab Control Sample	105	112
LCS 880-46873/2-A	Lab Control Sample	105	100
LCS 880-46875/2-A	Lab Control Sample	101	110
LCS 880-47228/2-A	Lab Control Sample	106	120
LCSD 880-46823/3-A	Lab Control Sample Dup	114	108
LCSD 880-46837/3-A	Lab Control Sample Dup	85	96
LCSD 880-46838/3-A	Lab Control Sample Dup	91	100
LCSD 880-46873/3-A	Lab Control Sample Dup	109	103
LCSD 880-46875/3-A	Lab Control Sample Dup	91	99
LCSD 880-47228/3-A	Lab Control Sample Dup	105	107
MB 880-46823/1-A	Method Blank	104	108
MB 880-46837/1-A	Method Blank	126	151 S1+
MB 880-46838/1-A	Method Blank	136 S1+	160 S1+
MB 880-46873/1-A	Method Blank	133 S1+	136 S1+
MB 880-46875/1-A	Method Blank	120	139 S1+
MB 880-47228/1-A	Method Blank	147 S1+	163 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-46842/5-A

Matrix: Solid

Analysis Batch: 46820

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46842

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/23 11:47	02/21/23 14:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/23 11:47	02/21/23 14:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/23 11:47	02/21/23 14:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/21/23 11:47	02/21/23 14:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/23 11:47	02/21/23 14:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/21/23 11:47	02/21/23 14:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	167	S1+	70 - 130	02/21/23 11:47	02/21/23 14:08	1
1,4-Difluorobenzene (Surr)	95		70 - 130	02/21/23 11:47	02/21/23 14:08	1

Lab Sample ID: MB 880-46862/5-A

Matrix: Solid

Analysis Batch: 46820

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46862

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:27	02/22/23 02:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:27	02/22/23 02:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:27	02/22/23 02:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/21/23 14:27	02/22/23 02:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:27	02/22/23 02:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/21/23 14:27	02/22/23 02:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	02/21/23 14:27	02/22/23 02:10	1
1,4-Difluorobenzene (Surr)	105		70 - 130	02/21/23 14:27	02/22/23 02:10	1

Lab Sample ID: LCS 880-46862/1-A

Matrix: Solid

Analysis Batch: 46820

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46862

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09082		mg/Kg		91	70 - 130
Toluene	0.100	0.08510		mg/Kg		85	70 - 130
Ethylbenzene	0.100	0.08726		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1859		mg/Kg		93	70 - 130
o-Xylene	0.100	0.09142		mg/Kg		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: LCSD 880-46862/2-A

Matrix: Solid

Analysis Batch: 46820

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46862

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1023		mg/Kg		102	70 - 130	12	35

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

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

Lab Sample ID: LCSD 880-46862/2-A

Matrix: Solid

Analysis Batch: 46820

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46862

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09384		mg/Kg		94	70 - 130	10	35
Ethylbenzene	0.100	0.09356		mg/Kg		94	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1959		mg/Kg		98	70 - 130	5	35
o-Xylene	0.100	0.09631		mg/Kg		96	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: MB 880-46865/5-A

Matrix: Solid

Analysis Batch: 46927

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46865

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:29	02/22/23 10:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:29	02/22/23 10:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:29	02/22/23 10:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/21/23 14:29	02/22/23 10:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:29	02/22/23 10:57	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/21/23 14:29	02/22/23 10:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	02/21/23 14:29	02/22/23 10:57	1
1,4-Difluorobenzene (Surr)	91		70 - 130	02/21/23 14:29	02/22/23 10:57	1

Lab Sample ID: LCS 880-46865/1-A

Matrix: Solid

Analysis Batch: 46927

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46865

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1006		mg/Kg		101	70 - 130
Toluene	0.100	0.09321		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.1027		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.2236		mg/Kg		112	70 - 130
o-Xylene	0.100	0.1134		mg/Kg		113	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-46865/2-A

Matrix: Solid

Analysis Batch: 46927

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46865

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09782		mg/Kg		98	70 - 130	3	35
Toluene	0.100	0.09341		mg/Kg		93	70 - 130	0	35
Ethylbenzene	0.100	0.1016		mg/Kg		102	70 - 130	1	35

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

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

Lab Sample ID: LCSD 880-46865/2-A

Matrix: Solid

Analysis Batch: 46927

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46865

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	0.200	0.2216		mg/Kg		111	70 - 130	1	35
o-Xylene	0.100	0.1106		mg/Kg		111	70 - 130	3	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	118		70 - 130						
1,4-Difluorobenzene (Surr)	111		70 - 130						

Lab Sample ID: 880-24905-19 MS

Matrix: Solid

Analysis Batch: 46927

Client Sample ID: BH-19

Prep Type: Total/NA

Prep Batch: 46865

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.00200	U	0.100	0.1088		mg/Kg		108	70 - 130		
Toluene	<0.00200	U	0.100	0.09416		mg/Kg		94	70 - 130		
Ethylbenzene	<0.00200	U	0.100	0.09424		mg/Kg		94	70 - 130		
m-Xylene & p-Xylene	<0.00401	U	0.201	0.2099		mg/Kg		105	70 - 130		
o-Xylene	<0.00200	U	0.100	0.1052		mg/Kg		105	70 - 130		

Lab Sample ID: 880-24905-19 MSD

Matrix: Solid

Analysis Batch: 46927

Client Sample ID: BH-19

Prep Type: Total/NA

Prep Batch: 46865

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0990	0.09901		mg/Kg		100	70 - 130	9	35
Toluene	<0.00200	U	0.0990	0.09604		mg/Kg		97	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.0990	0.1004		mg/Kg		101	70 - 130	6	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.2209		mg/Kg		112	70 - 130	5	35
o-Xylene	<0.00200	U	0.0990	0.1114		mg/Kg		113	70 - 130	6	35

Lab Sample ID: MB 880-46866/5-A

Matrix: Solid

Analysis Batch: 46925

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46866

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:31	02/22/23 11:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:31	02/22/23 11:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:31	02/22/23 11:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/21/23 14:31	02/22/23 11:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:31	02/22/23 11:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/21/23 14:31	02/22/23 11:37	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	02/21/23 14:31	02/22/23 11:37	1
1,4-Difluorobenzene (Surr)	75		70 - 130	02/21/23 14:31	02/22/23 11:37	1

Lab Sample ID: LCS 880-46866/1-A

Matrix: Solid

Analysis Batch: 46925

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46866

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1036		mg/Kg		104	70 - 130
Toluene	0.100	0.1127		mg/Kg		113	70 - 130
Ethylbenzene	0.100	0.1124		mg/Kg		112	70 - 130
m-Xylene & p-Xylene	0.200	0.2298		mg/Kg		115	70 - 130
o-Xylene	0.100	0.1083		mg/Kg		108	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	159	S1+	70 - 130
1,4-Difluorobenzene (Surr)	73		70 - 130

Lab Sample ID: LCSD 880-46866/2-A

Matrix: Solid

Analysis Batch: 46925

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46866

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1223		mg/Kg		122	70 - 130	16	35
Toluene	0.100	0.1179		mg/Kg		118	70 - 130	5	35
Ethylbenzene	0.100	0.1159		mg/Kg		116	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2397		mg/Kg		120	70 - 130	4	35
o-Xylene	0.100	0.01253	*- *1	mg/Kg		13	70 - 130	158	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	167	S1+	70 - 130
1,4-Difluorobenzene (Surr)	82		70 - 130

Lab Sample ID: 880-24905-39 MS

Matrix: Solid

Analysis Batch: 46925

Client Sample ID: SW-3

Prep Type: Total/NA

Prep Batch: 46866

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U F1	0.0998	0.1412	F1	mg/Kg		141	70 - 130
Toluene	<0.00201	U F1	0.0998	0.1339	F1	mg/Kg		134	70 - 130
Ethylbenzene	<0.00201	U F1	0.0998	0.1342	F1	mg/Kg		134	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.2741	F1	mg/Kg		137	70 - 130
o-Xylene	<0.00201	U *- *1	0.0998	0.1272		mg/Kg		127	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	179	S1+	70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

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

Lab Sample ID: 880-24905-39 MSD

Matrix: Solid

Analysis Batch: 46925

Client Sample ID: SW-3

Prep Type: Total/NA

Prep Batch: 46866

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.100	0.1317	F1	mg/Kg		131	70 - 130	7	35
Toluene	<0.00201	U F1	0.100	0.1215		mg/Kg		121	70 - 130	10	35
Ethylbenzene	<0.00201	U F1	0.100	0.1199		mg/Kg		120	70 - 130	11	35
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.2456		mg/Kg		123	70 - 130	11	35
o-Xylene	<0.00201	U *- *1	0.100	0.1145		mg/Kg		114	70 - 130	10	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	170	S1+	70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

Lab Sample ID: MB 880-46868/5-A

Matrix: Solid

Analysis Batch: 46928

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46868

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:34	02/22/23 11:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:34	02/22/23 11:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:34	02/22/23 11:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/21/23 14:34	02/22/23 11:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:34	02/22/23 11:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/21/23 14:34	02/22/23 11:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130	02/21/23 14:34	02/22/23 11:49	1
1,4-Difluorobenzene (Surr)	104		70 - 130	02/21/23 14:34	02/22/23 11:49	1

Lab Sample ID: LCS 880-46868/1-A

Matrix: Solid

Analysis Batch: 46928

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46868

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1235		mg/Kg		124	70 - 130
Toluene	0.100	0.1239		mg/Kg		124	70 - 130
Ethylbenzene	0.100	0.1118		mg/Kg		112	70 - 130
m-Xylene & p-Xylene	0.200	0.2240		mg/Kg		112	70 - 130
o-Xylene	0.100	0.1124		mg/Kg		112	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: LCSD 880-46868/2-A

Matrix: Solid

Analysis Batch: 46928

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46868

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09728		mg/Kg		97	70 - 130	24	35
Toluene	0.100	0.09414		mg/Kg		94	70 - 130	27	35

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

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

Lab Sample ID: LCSD 880-46868/2-A

Matrix: Solid

Analysis Batch: 46928

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46868

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
	Added	Result	Qualifier				Limits		Limit
Ethylbenzene	0.100	0.08345		mg/Kg		83	70 - 130	29	35
m-Xylene & p-Xylene	0.200	0.1696		mg/Kg		85	70 - 130	28	35
o-Xylene	0.100	0.08708		mg/Kg		87	70 - 130	25	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 880-24905-59 MS

Matrix: Solid

Analysis Batch: 46928

Client Sample ID: SW-23

Prep Type: Total/NA

Prep Batch: 46868

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits		
	Result	Qualifier	Added	Result	Qualifier							
Benzene	<0.00200	U	0.100	0.09971		mg/Kg		99		70 - 130		
Toluene	<0.00200	U	0.100	0.1018		mg/Kg		101		70 - 130		
Ethylbenzene	<0.00200	U	0.100	0.09704		mg/Kg		97		70 - 130		
m-Xylene & p-Xylene	<0.00399	U	0.201	0.1989		mg/Kg		99		70 - 130		
o-Xylene	<0.00200	U	0.100	0.09878		mg/Kg		98		70 - 130		

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-24905-59 MSD

Matrix: Solid

Analysis Batch: 46928

Client Sample ID: SW-23

Prep Type: Total/NA

Prep Batch: 46868

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Benzene	<0.00200	U	0.0990	0.09361		mg/Kg		94	70 - 130	6	35
Toluene	<0.00200	U	0.0990	0.09393		mg/Kg		94	70 - 130	8	35
Ethylbenzene	<0.00200	U	0.0990	0.08449		mg/Kg		85	70 - 130	14	35
m-Xylene & p-Xylene	<0.00399	U	0.198	0.1698		mg/Kg		86	70 - 130	16	35
o-Xylene	<0.00200	U	0.0990	0.08502		mg/Kg		86	70 - 130	15	35

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: MB 880-46926/8

Matrix: Solid

Analysis Batch: 46926

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg			02/22/23 13:39	1
Toluene	<0.00200	U	0.00200		mg/Kg			02/22/23 13:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			02/22/23 13:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			02/22/23 13:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			02/22/23 13:39	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

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

Lab Sample ID: MB 880-46926/8

Matrix: Solid

Analysis Batch: 46926

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			02/22/23 13:39	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130					02/22/23 13:39	1
1,4-Difluorobenzene (Surr)	105		70 - 130					02/22/23 13:39	1

Lab Sample ID: MB 880-46933/5-A

Matrix: Solid

Analysis Batch: 46926

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46933

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/22/23 09:33	02/23/23 01:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/22/23 09:33	02/23/23 01:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/22/23 09:33	02/23/23 01:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/22/23 09:33	02/23/23 01:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/22/23 09:33	02/23/23 01:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/22/23 09:33	02/23/23 01:41	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				02/22/23 09:33	02/23/23 01:41	1
1,4-Difluorobenzene (Surr)	104		70 - 130				02/22/23 09:33	02/23/23 01:41	1

Lab Sample ID: LCS 880-46933/1-A

Matrix: Solid

Analysis Batch: 46926

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46933

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1029		mg/Kg		103	70 - 130
Toluene	0.100	0.09799		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.1052		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2284		mg/Kg		114	70 - 130
o-Xylene	0.100	0.1113		mg/Kg		111	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	110		70 - 130				
1,4-Difluorobenzene (Surr)	113		70 - 130				

Lab Sample ID: LCSD 880-46933/2-A

Matrix: Solid

Analysis Batch: 46926

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46933

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1044		mg/Kg		104	70 - 130	1	35
Toluene	0.100	0.1007		mg/Kg		101	70 - 130	3	35
Ethylbenzene	0.100	0.1051		mg/Kg		105	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2261		mg/Kg		113	70 - 130	1	35
o-Xylene	0.100	0.1105		mg/Kg		110	70 - 130	1	35

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

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

Lab Sample ID: LCSD 880-46933/2-A

Matrix: Solid

Analysis Batch: 46926

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46933

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: 880-24905-79 MS

Matrix: Solid

Analysis Batch: 46926

Client Sample ID: SW-43

Prep Type: Total/NA

Prep Batch: 46933

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.101	0.1098		mg/Kg		109	70 - 130	
Toluene	<0.00200	U	0.101	0.1066		mg/Kg		106	70 - 130	
Ethylbenzene	<0.00200	U	0.101	0.1125		mg/Kg		111	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.202	0.2429		mg/Kg		120	70 - 130	
o-Xylene	<0.00200	U	0.101	0.1187		mg/Kg		117	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 880-24905-79 MSD

Matrix: Solid

Analysis Batch: 46926

Client Sample ID: SW-43

Prep Type: Total/NA

Prep Batch: 46933

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0994	0.1097		mg/Kg		110	70 - 130	0	35
Toluene	<0.00200	U	0.0994	0.1076		mg/Kg		108	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.0994	0.1143		mg/Kg		115	70 - 130	2	35
m-Xylene & p-Xylene	<0.00401	U	0.199	0.2473		mg/Kg		124	70 - 130	2	35
o-Xylene	<0.00200	U	0.0994	0.1213		mg/Kg		122	70 - 130	2	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: MB 880-46948/5-A

Matrix: Solid

Analysis Batch: 46925

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46948

	MB	MB								
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200		mg/Kg		02/22/23 14:24	02/23/23 01:12	1	
Toluene	<0.00200	U	0.00200		mg/Kg		02/22/23 14:24	02/23/23 01:12	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/22/23 14:24	02/23/23 01:12	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/22/23 14:24	02/23/23 01:12	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/22/23 14:24	02/23/23 01:12	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/22/23 14:24	02/23/23 01:12	1	

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
4-Bromofluorobenzene (Surr)	125		70 - 130	02/22/23 14:24	02/23/23 01:12	1				

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

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

Lab Sample ID: MB 880-46948/5-A
Matrix: Solid
Analysis Batch: 46925

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46948

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac		
1,4-Difluorobenzene (Surr)	71		70 - 130	02/22/23 14:24	02/23/23 01:12	1			

Lab Sample ID: LCS 880-46948/1-A
Matrix: Solid
Analysis Batch: 46925

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46948

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	0.100	0.1279		mg/Kg		128	70 - 130		
Toluene	0.100	0.1292		mg/Kg		129	70 - 130		
Ethylbenzene	0.100	0.1268		mg/Kg		127	70 - 130		
m-Xylene & p-Xylene	0.200	0.2592		mg/Kg		130	70 - 130		
o-Xylene	0.100	0.1242		mg/Kg		124	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	199	S1+	70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

Lab Sample ID: LCSD 880-46948/2-A
Matrix: Solid
Analysis Batch: 46925

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46948

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1457	*+	mg/Kg		146	70 - 130	13	35
Toluene	0.100	0.1491	*+	mg/Kg		149	70 - 130	14	35
Ethylbenzene	0.100	0.1497	*+	mg/Kg		150	70 - 130	17	35
m-Xylene & p-Xylene	0.200	0.3065	*+	mg/Kg		153	70 - 130	17	35
o-Xylene	0.100	0.1486	*+	mg/Kg		149	70 - 130	18	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	197	S1+	70 - 130
1,4-Difluorobenzene (Surr)	82		70 - 130

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

Lab Sample ID: MB 880-46823/1-A
Matrix: Solid
Analysis Batch: 46829

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46823

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/21/23 08:38	02/21/23 08:17	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/21/23 08:38	02/21/23 08:17	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/21/23 08:38	02/21/23 08:17	1	

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil	Fac
1-Chlorooctane	104		70 - 130	02/21/23 08:38	02/21/23 08:17	1	
o-Terphenyl	108		70 - 130	02/21/23 08:38	02/21/23 08:17	1	

Eurofins Midland

QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

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

Lab Sample ID: LCS 880-46823/2-A

Matrix: Solid

Analysis Batch: 46829

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46823

Analyte			Spike	LCS	LCS			%Rec		
			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10			1000	1049		mg/Kg		105	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	1212		mg/Kg		121	70 - 130	
		LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	127		70 - 130							
o-Terphenyl	129		70 - 130							

Lab Sample ID: LCSD 880-46823/3-A

Matrix: Solid

Analysis Batch: 46829

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46823

Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
			Added	Result	Qualifier			Limits	Limits	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	857.5		mg/Kg		86	70 - 130	20	20
Diesel Range Organics (Over C10-C28)			1000	955.2	*1	mg/Kg		96	70 - 130	24	20
Surrogate	LCSD	LCSD	Limits								
	%Recovery	Qualifier									
1-Chlorooctane	114		70 - 130								
o-Terphenyl	108		70 - 130								

Lab Sample ID: MB 880-46837/1-A

Matrix: Solid

Analysis Batch: 46919

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46837

Analyte	MB	MB	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/21/23 10:25	02/22/23 21:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/21/23 10:25	02/22/23 21:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/21/23 10:25	02/22/23 21:03	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	126		70 - 130				02/21/23 10:25	02/22/23 21:03	1
o-Terphenyl	151	S1+	70 - 130				02/21/23 10:25	02/22/23 21:03	1

Lab Sample ID: LCS 880-46837/2-A

Matrix: Solid

Analysis Batch: 46919

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46837

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	949.6		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	1000	909.8		mg/Kg		91	70 - 130

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

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

Lab Sample ID: LCS 880-46837/2-A
Matrix: Solid
Analysis Batch: 46919

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46837

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: LCSD 880-46837/3-A
Matrix: Solid
Analysis Batch: 46919

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46837

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	895.4		mg/Kg		90	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	920.5		mg/Kg		92	70 - 130	1	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: 880-24905-41 MS
Matrix: Solid
Analysis Batch: 46919

Client Sample ID: SW-5
Prep Type: Total/NA
Prep Batch: 46837

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1060		mg/Kg		103	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1071		mg/Kg		104	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	17	S1-	70 - 130
o-Terphenyl	11	S1-	70 - 130

Lab Sample ID: 880-24905-41 MSD
Matrix: Solid
Analysis Batch: 46919

Client Sample ID: SW-5
Prep Type: Total/NA
Prep Batch: 46837

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	<50.0	U	999	1056		mg/Kg		102	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1055		mg/Kg		103	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	16	S1-	70 - 130
o-Terphenyl	11	S1-	70 - 130

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

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

Lab Sample ID: MB 880-46838/1-A

Matrix: Solid

Analysis Batch: 46919

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46838

Analyte	MB	MB	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/21/23 10:29	02/22/23 09:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/21/23 10:29	02/22/23 09:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/21/23 10:29	02/22/23 09:13	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
1-Chlorooctane	136	S1+	70 - 130				02/21/23 10:29	02/22/23 09:13	1
o-Terphenyl	160	S1+	70 - 130				02/21/23 10:29	02/22/23 09:13	1

Lab Sample ID: LCS 880-46838/2-A

Matrix: Solid

Analysis Batch: 46919

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46838

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1081		mg/Kg		108	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1095		mg/Kg		110	70 - 130		
Surrogate	LCS	LCS	Limits						
	%Recovery	Qualifier							
1-Chlorooctane	105		70 - 130						
o-Terphenyl	112		70 - 130						

Lab Sample ID: LCSD 880-46838/3-A

Matrix: Solid

Analysis Batch: 46919

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46838

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	924.4		mg/Kg		92	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	1000	956.1		mg/Kg		96	70 - 130	14	20
Surrogate	LCSD	LCSD	Limits						
	%Recovery	Qualifier							
1-Chlorooctane	91		70 - 130						
o-Terphenyl	100		70 - 130						

Lab Sample ID: 880-24905-61 MS

Matrix: Solid

Analysis Batch: 46919

Client Sample ID: SW-25

Prep Type: Total/NA

Prep Batch: 46838

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
	Result	Qualifier									
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1181		mg/Kg		115	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1113		mg/Kg		109	70 - 130		

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

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

Lab Sample ID: 880-24905-61 MS

Matrix: Solid

Analysis Batch: 46919

Client Sample ID: SW-25

Prep Type: Total/NA

Prep Batch: 46838

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: 880-24905-61 MSD

Matrix: Solid

Analysis Batch: 46919

Client Sample ID: SW-25

Prep Type: Total/NA

Prep Batch: 46838

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	<49.9	U	999	1167		mg/Kg		114	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1273		mg/Kg		125	70 - 130	13	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	122		70 - 130
o-Terphenyl	114		70 - 130

Lab Sample ID: MB 880-46873/1-A

Matrix: Solid

Analysis Batch: 46829

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46873

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/21/23 14:47	02/21/23 19:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/21/23 14:47	02/21/23 19:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/21/23 14:47	02/21/23 19:55	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	133	S1+	70 - 130	02/21/23 14:47	02/21/23 19:55	1			
o-Terphenyl	136	S1+	70 - 130	02/21/23 14:47	02/21/23 19:55	1			

Lab Sample ID: LCS 880-46873/2-A

Matrix: Solid

Analysis Batch: 46829

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46873

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	928.5		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	1000	921.8		mg/Kg		92	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	100		70 - 130

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

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

Lab Sample ID: LCSD 880-46873/A

Matrix: Solid

Analysis Batch: 46829

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46873

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	942.0		mg/Kg		94	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	944.1		mg/Kg		94	70 - 130	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	109		70 - 130						
o-Terphenyl	103		70 - 130						

Lab Sample ID: 880-24905-1 MS

Matrix: Solid

Analysis Batch: 46829

Client Sample ID: BH-1

Prep Type: Total/NA

Prep Batch: 46873

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	982.8		mg/Kg		98	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	998	974.4		mg/Kg		96	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	105		70 - 130								
o-Terphenyl	80		70 - 130								

Lab Sample ID: 880-24905-1 MSD

Matrix: Solid

Analysis Batch: 46829

Client Sample ID: BH-1

Prep Type: Total/NA

Prep Batch: 46873

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	<50.0	U	998	955.3		mg/Kg		96	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	985.0		mg/Kg		97	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	105		70 - 130								
o-Terphenyl	81		70 - 130								

Lab Sample ID: MB 880-46875/1-A

Matrix: Solid

Analysis Batch: 46831

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46875

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/21/23 14:51	02/21/23 19:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/21/23 14:51	02/21/23 19:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/21/23 14:51	02/21/23 19:55	1

Eurofins Midland

QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

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

Lab Sample ID: MB 880-46875/1-A

Matrix: Solid

Analysis Batch: 46831

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46875

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	02/21/23 14:51	02/21/23 19:55	1
o-Terphenyl	139	S1+	70 - 130	02/21/23 14:51	02/21/23 19:55	1

Lab Sample ID: LCS 880-46875/2-A

Matrix: Solid

Analysis Batch: 46831

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46875

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10			1000	686.3	*-	mg/Kg		69	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	1084		mg/Kg		108	70 - 130	

	LCS	LCS				
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	101		70 - 130			
o-Terphenyl	110		70 - 130			

Lab Sample ID: LCSD 880-46875/3-A

Matrix: Solid

Analysis Batch: 46831

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46875

			Spike	LCSD	LCSD				%Rec		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	620.7	*-	mg/Kg		62	70 - 130	10	20	
Diesel Range Organics (Over C10-C28)			1000	908.3		mg/Kg		91	70 - 130	18	20	

	LCSD	LCSD				
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	91		70 - 130			
o-Terphenyl	99		70 - 130			

Lab Sample ID: 880-24905-21 MS

Matrix: Solid

Analysis Batch: 46831

Client Sample ID: BH-21

Prep Type: Total/NA

Prep Batch: 46875

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	999	1250		mg/Kg		121	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1315		mg/Kg		130	70 - 130	

	MS	MS				
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	130		70 - 130			
o-Terphenyl	123		70 - 130			

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

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

Lab Sample ID: 880-24905-21 MSD

Matrix: Solid

Analysis Batch: 46831

Client Sample ID: BH-21

Prep Type: Total/NA

Prep Batch: 46875

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	<49.9	U *	998	1278		mg/Kg		124	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1155		mg/Kg		114	70 - 130	13	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	112		70 - 130								
o-Terphenyl	107		70 - 130								

Lab Sample ID: MB 880-47228/1-A

Matrix: Solid

Analysis Batch: 47221

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47228

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/25/23 08:55	02/25/23 20:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/25/23 08:55	02/25/23 20:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/25/23 08:55	02/25/23 20:13	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	147	S1+	70 - 130				02/25/23 08:55	02/25/23 20:13	1
o-Terphenyl	163	S1+	70 - 130				02/25/23 08:55	02/25/23 20:13	1

Lab Sample ID: LCS 880-47228/2-A

Matrix: Solid

Analysis Batch: 47221

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47228

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	969.7		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1086		mg/Kg		109	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	106		70 - 130						
o-Terphenyl	120		70 - 130						

Lab Sample ID: LCSD 880-47228/3-A

Matrix: Solid

Analysis Batch: 47221

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47228

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	968.1		mg/Kg		97	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	951.5		mg/Kg		95	70 - 130	13	20

Eurofins Midland

QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

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

Lab Sample ID: LCSD 880-47228/3-A
Matrix: Solid
Analysis Batch: 47221

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 47228

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	107		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-46721/1-A
Matrix: Solid
Analysis Batch: 47125

Client Sample ID: Method Blank
Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<5.00	U	5.00		mg/Kg			02/24/23 00:48		1

Lab Sample ID: LCS 880-46721/2-A
Matrix: Solid
Analysis Batch: 47125

Client Sample ID: Lab Control Sample
Prep Type: Soluble

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride			250	244.4		mg/Kg		98	90 - 110	

Lab Sample ID: LCSD 880-46721/3-A
Matrix: Solid
Analysis Batch: 47125

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

			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	244.2		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-24905-1 MS
Matrix: Solid
Analysis Batch: 47125

Client Sample ID: BH-1
Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	66.3		253	323.2		mg/Kg		102	90 - 110	

Lab Sample ID: 880-24905-1 MSD
Matrix: Solid
Analysis Batch: 47125

Client Sample ID: BH-1
Prep Type: Soluble

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	66.3		253	324.3		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-24905-11 MS
Matrix: Solid
Analysis Batch: 47125

Client Sample ID: BH-11
Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	24.4		249	274.4		mg/Kg		100	90 - 110	

Eurofins Midland

QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-24905-11 MSD

Matrix: Solid

Analysis Batch: 47125

Client Sample ID: BH-11

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	24.4		249	274.5		mg/Kg		100	90 - 110	0	20

Lab Sample ID: MB 880-46722/1-A

Matrix: Solid

Analysis Batch: 47126

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	MLQ (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/24/23 04:24	1

Lab Sample ID: LCS 880-46722/2-A

Matrix: Solid

Analysis Batch: 47126

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	260.2		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-46722/3-A

Matrix: Solid

Analysis Batch: 47126

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	258.4		mg/Kg		103	90 - 110	1	20

Lab Sample ID: 880-24905-21 MS

Matrix: Solid

Analysis Batch: 47126

Client Sample ID: BH-21

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	19.5		251	272.9		mg/Kg		101	90 - 110

Lab Sample ID: 880-24905-21 MSD

Matrix: Solid

Analysis Batch: 47126

Client Sample ID: BH-21

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	19.5		251	272.9		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-24905-31 MS

Matrix: Solid

Analysis Batch: 47126

Client Sample ID: BH-31

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	1080		249	1249	4	mg/Kg		67	90 - 110

Lab Sample ID: 880-24905-31 MSD

Matrix: Solid

Analysis Batch: 47126

Client Sample ID: BH-31

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	1080		249	1251	4	mg/Kg		68	90 - 110	0	20

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-46723/1-A

Matrix: Solid

Analysis Batch: 47127

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/24/23 08:27	1

Lab Sample ID: LCS 880-46723/2-A

Matrix: Solid

Analysis Batch: 47127

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	237.3		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-46723/3-A

Matrix: Solid

Analysis Batch: 47127

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	237.4		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 880-24905-41 MS

Matrix: Solid

Analysis Batch: 47127

Client Sample ID: SW-5

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	128		249	361.0		mg/Kg		94	90 - 110

Lab Sample ID: 880-24905-41 MSD

Matrix: Solid

Analysis Batch: 47127

Client Sample ID: SW-5

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	128		249	361.5		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 880-24905-51 MS

Matrix: Solid

Analysis Batch: 47127

Client Sample ID: SW-15

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	58.3		249	299.6		mg/Kg		97	90 - 110

Lab Sample ID: 880-24905-51 MSD

Matrix: Solid

Analysis Batch: 47127

Client Sample ID: SW-15

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	58.3		249	299.5		mg/Kg		97	90 - 110	0	20

Lab Sample ID: MB 880-46724/1-A

Matrix: Solid

Analysis Batch: 47128

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/24/23 08:26	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-46724/2-A

Matrix: Solid

Analysis Batch: 47128

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	240.2		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-46724/3-A

Matrix: Solid

Analysis Batch: 47128

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	255.9		mg/Kg		102	90 - 110	6	20

Lab Sample ID: 880-24905-61 MS

Matrix: Solid

Analysis Batch: 47128

Client Sample ID: SW-25

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	33.2		251	274.9		mg/Kg		96	90 - 110

Lab Sample ID: 880-24905-61 MSD

Matrix: Solid

Analysis Batch: 47128

Client Sample ID: SW-25

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	33.2		251	282.6		mg/Kg		99	90 - 110	3	20

Lab Sample ID: 880-24905-71 MS

Matrix: Solid

Analysis Batch: 47128

Client Sample ID: SW-35

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	11600	F1	4960	17730	F1	mg/Kg		124	90 - 110

Lab Sample ID: 880-24905-71 MSD

Matrix: Solid

Analysis Batch: 47128

Client Sample ID: SW-35

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	11600	F1	4960	17340	F1	mg/Kg		116	90 - 110	2	20

Lab Sample ID: MB 880-46719/1-A

Matrix: Solid

Analysis Batch: 47190

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/24/23 11:09	1

Lab Sample ID: LCS 880-46719/2-A

Matrix: Solid

Analysis Batch: 47190

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	246.9		mg/Kg		99	90 - 110

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-46719/3-A				Client Sample ID: Lab Control Sample Dup							
Matrix: Solid				Prep Type: Soluble							
Analysis Batch: 47190											
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
Chloride	250	243.3		mg/Kg		97	90 - 110	1	20		

QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

GC VOA

Analysis Batch: 46820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-1	BH-1	Total/NA	Solid	8021B	46862
880-24905-2	BH-2	Total/NA	Solid	8021B	46862
880-24905-3	BH-3	Total/NA	Solid	8021B	46862
880-24905-4	BH-4	Total/NA	Solid	8021B	46862
880-24905-5	BH-5	Total/NA	Solid	8021B	46862
880-24905-6	BH-6	Total/NA	Solid	8021B	46862
880-24905-7	BH-7	Total/NA	Solid	8021B	46862
880-24905-8	BH-8	Total/NA	Solid	8021B	46862
880-24905-9	BH-9	Total/NA	Solid	8021B	46862
880-24905-10	BH-10	Total/NA	Solid	8021B	46862
880-24905-11	BH-11	Total/NA	Solid	8021B	46862
880-24905-13	BH-13	Total/NA	Solid	8021B	46862
880-24905-14	BH-14	Total/NA	Solid	8021B	46862
880-24905-15	BH-15	Total/NA	Solid	8021B	46862
880-24905-16	BH-16	Total/NA	Solid	8021B	46862
880-24905-17	BH-17	Total/NA	Solid	8021B	46862
880-24905-18	BH-18	Total/NA	Solid	8021B	46862
MB 880-46842/5-A	Method Blank	Total/NA	Solid	8021B	46842
MB 880-46862/5-A	Method Blank	Total/NA	Solid	8021B	46862
LCS 880-46862/1-A	Lab Control Sample	Total/NA	Solid	8021B	46862
LCSD 880-46862/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46862

Prep Batch: 46842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-46842/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 46862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-1	BH-1	Total/NA	Solid	5035	
880-24905-2	BH-2	Total/NA	Solid	5035	
880-24905-3	BH-3	Total/NA	Solid	5035	
880-24905-4	BH-4	Total/NA	Solid	5035	
880-24905-5	BH-5	Total/NA	Solid	5035	
880-24905-6	BH-6	Total/NA	Solid	5035	
880-24905-7	BH-7	Total/NA	Solid	5035	
880-24905-8	BH-8	Total/NA	Solid	5035	
880-24905-9	BH-9	Total/NA	Solid	5035	
880-24905-10	BH-10	Total/NA	Solid	5035	
880-24905-11	BH-11	Total/NA	Solid	5035	
880-24905-13	BH-13	Total/NA	Solid	5035	
880-24905-14	BH-14	Total/NA	Solid	5035	
880-24905-15	BH-15	Total/NA	Solid	5035	
880-24905-16	BH-16	Total/NA	Solid	5035	
880-24905-17	BH-17	Total/NA	Solid	5035	
880-24905-18	BH-18	Total/NA	Solid	5035	
MB 880-46862/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46862/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-46862/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

GC VOA

Prep Batch: 46865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-19	BH-19	Total/NA	Solid	5035	
880-24905-20	BH-20	Total/NA	Solid	5035	
880-24905-21	BH-21	Total/NA	Solid	5035	
880-24905-22	BH-22	Total/NA	Solid	5035	
880-24905-23	BH-23	Total/NA	Solid	5035	
880-24905-24	BH-24	Total/NA	Solid	5035	
880-24905-25	BH-25	Total/NA	Solid	5035	
880-24905-26	BH-26	Total/NA	Solid	5035	
880-24905-27	BH-27	Total/NA	Solid	5035	
880-24905-28	BH-28	Total/NA	Solid	5035	
880-24905-29	BH-29	Total/NA	Solid	5035	
880-24905-30	BH-30	Total/NA	Solid	5035	
880-24905-31	BH-31	Total/NA	Solid	5035	
880-24905-32	BH-32	Total/NA	Solid	5035	
880-24905-33	BH-33	Total/NA	Solid	5035	
880-24905-35	BH-35	Total/NA	Solid	5035	
880-24905-36	BH-36	Total/NA	Solid	5035	
880-24905-37	SW-1	Total/NA	Solid	5035	
880-24905-38	SW-2	Total/NA	Solid	5035	
MB 880-46865/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46865/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-46865/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-24905-19 MS	BH-19	Total/NA	Solid	5035	
880-24905-19 MSD	BH-19	Total/NA	Solid	5035	

Prep Batch: 46866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-39	SW-3	Total/NA	Solid	5035	
880-24905-40	SW-4	Total/NA	Solid	5035	
880-24905-41	SW-5	Total/NA	Solid	5035	
880-24905-42	SW-6	Total/NA	Solid	5035	
880-24905-43	SW-7	Total/NA	Solid	5035	
880-24905-44	SW-8	Total/NA	Solid	5035	
880-24905-45	SW-9	Total/NA	Solid	5035	
880-24905-46	SW-10	Total/NA	Solid	5035	
880-24905-47	SW-11	Total/NA	Solid	5035	
880-24905-48	SW-12	Total/NA	Solid	5035	
880-24905-49	SW-13	Total/NA	Solid	5035	
880-24905-50	SW-14	Total/NA	Solid	5035	
880-24905-51	SW-15	Total/NA	Solid	5035	
880-24905-52	SW-16	Total/NA	Solid	5035	
880-24905-53	SW-17	Total/NA	Solid	5035	
880-24905-54	SW-18	Total/NA	Solid	5035	
880-24905-55	SW-19	Total/NA	Solid	5035	
880-24905-56	SW-20	Total/NA	Solid	5035	
880-24905-57	SW-21	Total/NA	Solid	5035	
880-24905-58	SW-22	Total/NA	Solid	5035	
MB 880-46866/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46866/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-46866/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-24905-39 MS	SW-3	Total/NA	Solid	5035	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

GC VOA (Continued)

Prep Batch: 46866 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-39 MSD	SW-3	Total/NA	Solid	5035	

Prep Batch: 46868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-59	SW-23	Total/NA	Solid	5035	
880-24905-60	SW-24	Total/NA	Solid	5035	
880-24905-61	SW-25	Total/NA	Solid	5035	
880-24905-62	SW-26	Total/NA	Solid	5035	
880-24905-63	SW-27	Total/NA	Solid	5035	
880-24905-64	SW-28	Total/NA	Solid	5035	
880-24905-65	SW-29	Total/NA	Solid	5035	
880-24905-66	SW-30	Total/NA	Solid	5035	
880-24905-67	SW-31	Total/NA	Solid	5035	
880-24905-68	SW-32	Total/NA	Solid	5035	
880-24905-69	SW-33	Total/NA	Solid	5035	
880-24905-70	SW-34	Total/NA	Solid	5035	
880-24905-71	SW-35	Total/NA	Solid	5035	
880-24905-72	SW-36	Total/NA	Solid	5035	
880-24905-73	SW-37	Total/NA	Solid	5035	
880-24905-74	SW-38	Total/NA	Solid	5035	
880-24905-75	SW-39	Total/NA	Solid	5035	
880-24905-76	SW-40	Total/NA	Solid	5035	
880-24905-77	SW-41	Total/NA	Solid	5035	
880-24905-78	SW-42	Total/NA	Solid	5035	
MB 880-46868/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46868/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-46868/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-24905-59 MS	SW-23	Total/NA	Solid	5035	
880-24905-59 MSD	SW-23	Total/NA	Solid	5035	

Analysis Batch: 46925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-34	BH-34	Total/NA	Solid	8021B	46948
880-24905-39	SW-3	Total/NA	Solid	8021B	46866
880-24905-40	SW-4	Total/NA	Solid	8021B	46866
880-24905-41	SW-5	Total/NA	Solid	8021B	46866
880-24905-42	SW-6	Total/NA	Solid	8021B	46866
880-24905-43	SW-7	Total/NA	Solid	8021B	46866
880-24905-44	SW-8	Total/NA	Solid	8021B	46866
880-24905-45	SW-9	Total/NA	Solid	8021B	46866
880-24905-46	SW-10	Total/NA	Solid	8021B	46866
880-24905-47	SW-11	Total/NA	Solid	8021B	46866
880-24905-48	SW-12	Total/NA	Solid	8021B	46866
880-24905-49	SW-13	Total/NA	Solid	8021B	46866
880-24905-50	SW-14	Total/NA	Solid	8021B	46866
880-24905-51	SW-15	Total/NA	Solid	8021B	46866
880-24905-52	SW-16	Total/NA	Solid	8021B	46866
880-24905-53	SW-17	Total/NA	Solid	8021B	46866
880-24905-54	SW-18	Total/NA	Solid	8021B	46866
880-24905-55	SW-19	Total/NA	Solid	8021B	46866
880-24905-56	SW-20	Total/NA	Solid	8021B	46866

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QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

GC VOA (Continued)

Analysis Batch: 46925 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-57	SW-21	Total/NA	Solid	8021B	46866
880-24905-58	SW-22	Total/NA	Solid	8021B	46866
MB 880-46866/5-A	Method Blank	Total/NA	Solid	8021B	46866
MB 880-46948/5-A	Method Blank	Total/NA	Solid	8021B	46948
LCS 880-46866/1-A	Lab Control Sample	Total/NA	Solid	8021B	46866
LCS 880-46948/1-A	Lab Control Sample	Total/NA	Solid	8021B	46948
LCSD 880-46866/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46866
LCSD 880-46948/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46948
880-24905-39 MS	SW-3	Total/NA	Solid	8021B	46866
880-24905-39 MSD	SW-3	Total/NA	Solid	8021B	46866

Analysis Batch: 46926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-12	BH-12	Total/NA	Solid	8021B	46933
880-24905-79	SW-43	Total/NA	Solid	8021B	46933
880-24905-80	SW-44	Total/NA	Solid	8021B	46933
880-24905-81	SW-45	Total/NA	Solid	8021B	46933
880-24905-82	SW-46	Total/NA	Solid	8021B	46933
MB 880-46926/8	Method Blank	Total/NA	Solid	8021B	
MB 880-46933/5-A	Method Blank	Total/NA	Solid	8021B	46933
LCS 880-46933/1-A	Lab Control Sample	Total/NA	Solid	8021B	46933
LCSD 880-46933/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46933
880-24905-79 MS	SW-43	Total/NA	Solid	8021B	46933
880-24905-79 MSD	SW-43	Total/NA	Solid	8021B	46933

Analysis Batch: 46927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-19	BH-19	Total/NA	Solid	8021B	46865
880-24905-20	BH-20	Total/NA	Solid	8021B	46865
880-24905-21	BH-21	Total/NA	Solid	8021B	46865
880-24905-22	BH-22	Total/NA	Solid	8021B	46865
880-24905-23	BH-23	Total/NA	Solid	8021B	46865
880-24905-24	BH-24	Total/NA	Solid	8021B	46865
880-24905-25	BH-25	Total/NA	Solid	8021B	46865
880-24905-26	BH-26	Total/NA	Solid	8021B	46865
880-24905-27	BH-27	Total/NA	Solid	8021B	46865
880-24905-28	BH-28	Total/NA	Solid	8021B	46865
880-24905-29	BH-29	Total/NA	Solid	8021B	46865
880-24905-30	BH-30	Total/NA	Solid	8021B	46865
880-24905-31	BH-31	Total/NA	Solid	8021B	46865
880-24905-32	BH-32	Total/NA	Solid	8021B	46865
880-24905-33	BH-33	Total/NA	Solid	8021B	46865
880-24905-35	BH-35	Total/NA	Solid	8021B	46865
880-24905-36	BH-36	Total/NA	Solid	8021B	46865
880-24905-37	SW-1	Total/NA	Solid	8021B	46865
880-24905-38	SW-2	Total/NA	Solid	8021B	46865
MB 880-46865/5-A	Method Blank	Total/NA	Solid	8021B	46865
LCS 880-46865/1-A	Lab Control Sample	Total/NA	Solid	8021B	46865
LCSD 880-46865/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46865
880-24905-19 MS	BH-19	Total/NA	Solid	8021B	46865
880-24905-19 MSD	BH-19	Total/NA	Solid	8021B	46865

Eurofins Midland

QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

GC VOA

Analysis Batch: 46928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-59	SW-23	Total/NA	Solid	8021B	46868
880-24905-60	SW-24	Total/NA	Solid	8021B	46868
880-24905-61	SW-25	Total/NA	Solid	8021B	46868
880-24905-62	SW-26	Total/NA	Solid	8021B	46868
880-24905-63	SW-27	Total/NA	Solid	8021B	46868
880-24905-64	SW-28	Total/NA	Solid	8021B	46868
880-24905-65	SW-29	Total/NA	Solid	8021B	46868
880-24905-66	SW-30	Total/NA	Solid	8021B	46868
880-24905-67	SW-31	Total/NA	Solid	8021B	46868
880-24905-68	SW-32	Total/NA	Solid	8021B	46868
880-24905-69	SW-33	Total/NA	Solid	8021B	46868
880-24905-70	SW-34	Total/NA	Solid	8021B	46868
880-24905-71	SW-35	Total/NA	Solid	8021B	46868
880-24905-72	SW-36	Total/NA	Solid	8021B	46868
880-24905-73	SW-37	Total/NA	Solid	8021B	46868
880-24905-74	SW-38	Total/NA	Solid	8021B	46868
880-24905-75	SW-39	Total/NA	Solid	8021B	46868
880-24905-76	SW-40	Total/NA	Solid	8021B	46868
880-24905-77	SW-41	Total/NA	Solid	8021B	46868
880-24905-78	SW-42	Total/NA	Solid	8021B	46868
MB 880-46868/5-A	Method Blank	Total/NA	Solid	8021B	46868
LCS 880-46868/1-A	Lab Control Sample	Total/NA	Solid	8021B	46868
LCSD 880-46868/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46868
880-24905-59 MS	SW-23	Total/NA	Solid	8021B	46868
880-24905-59 MSD	SW-23	Total/NA	Solid	8021B	46868

Prep Batch: 46933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-12	BH-12	Total/NA	Solid	5035	
880-24905-79	SW-43	Total/NA	Solid	5035	
880-24905-80	SW-44	Total/NA	Solid	5035	
880-24905-81	SW-45	Total/NA	Solid	5035	
880-24905-82	SW-46	Total/NA	Solid	5035	
MB 880-46933/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46933/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-46933/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-24905-79 MS	SW-43	Total/NA	Solid	5035	
880-24905-79 MSD	SW-43	Total/NA	Solid	5035	

Analysis Batch: 46947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-1	BH-1	Total/NA	Solid	Total BTEX	
880-24905-2	BH-2	Total/NA	Solid	Total BTEX	
880-24905-3	BH-3	Total/NA	Solid	Total BTEX	
880-24905-4	BH-4	Total/NA	Solid	Total BTEX	
880-24905-5	BH-5	Total/NA	Solid	Total BTEX	
880-24905-6	BH-6	Total/NA	Solid	Total BTEX	
880-24905-7	BH-7	Total/NA	Solid	Total BTEX	
880-24905-8	BH-8	Total/NA	Solid	Total BTEX	
880-24905-9	BH-9	Total/NA	Solid	Total BTEX	
880-24905-10	BH-10	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

GC VOA (Continued)

Analysis Batch: 46947 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-11	BH-11	Total/NA	Solid	Total BTEX	
880-24905-12	BH-12	Total/NA	Solid	Total BTEX	
880-24905-13	BH-13	Total/NA	Solid	Total BTEX	
880-24905-14	BH-14	Total/NA	Solid	Total BTEX	
880-24905-15	BH-15	Total/NA	Solid	Total BTEX	
880-24905-16	BH-16	Total/NA	Solid	Total BTEX	
880-24905-17	BH-17	Total/NA	Solid	Total BTEX	
880-24905-18	BH-18	Total/NA	Solid	Total BTEX	
880-24905-19	BH-19	Total/NA	Solid	Total BTEX	
880-24905-20	BH-20	Total/NA	Solid	Total BTEX	
880-24905-21	BH-21	Total/NA	Solid	Total BTEX	
880-24905-22	BH-22	Total/NA	Solid	Total BTEX	
880-24905-23	BH-23	Total/NA	Solid	Total BTEX	
880-24905-24	BH-24	Total/NA	Solid	Total BTEX	
880-24905-25	BH-25	Total/NA	Solid	Total BTEX	
880-24905-26	BH-26	Total/NA	Solid	Total BTEX	
880-24905-27	BH-27	Total/NA	Solid	Total BTEX	
880-24905-28	BH-28	Total/NA	Solid	Total BTEX	
880-24905-29	BH-29	Total/NA	Solid	Total BTEX	
880-24905-30	BH-30	Total/NA	Solid	Total BTEX	
880-24905-31	BH-31	Total/NA	Solid	Total BTEX	
880-24905-32	BH-32	Total/NA	Solid	Total BTEX	
880-24905-33	BH-33	Total/NA	Solid	Total BTEX	
880-24905-34	BH-34	Total/NA	Solid	Total BTEX	
880-24905-35	BH-35	Total/NA	Solid	Total BTEX	
880-24905-36	BH-36	Total/NA	Solid	Total BTEX	
880-24905-37	SW-1	Total/NA	Solid	Total BTEX	
880-24905-38	SW-2	Total/NA	Solid	Total BTEX	
880-24905-39	SW-3	Total/NA	Solid	Total BTEX	
880-24905-40	SW-4	Total/NA	Solid	Total BTEX	
880-24905-41	SW-5	Total/NA	Solid	Total BTEX	
880-24905-42	SW-6	Total/NA	Solid	Total BTEX	
880-24905-43	SW-7	Total/NA	Solid	Total BTEX	
880-24905-44	SW-8	Total/NA	Solid	Total BTEX	
880-24905-45	SW-9	Total/NA	Solid	Total BTEX	
880-24905-46	SW-10	Total/NA	Solid	Total BTEX	
880-24905-47	SW-11	Total/NA	Solid	Total BTEX	
880-24905-48	SW-12	Total/NA	Solid	Total BTEX	
880-24905-49	SW-13	Total/NA	Solid	Total BTEX	
880-24905-50	SW-14	Total/NA	Solid	Total BTEX	
880-24905-51	SW-15	Total/NA	Solid	Total BTEX	
880-24905-52	SW-16	Total/NA	Solid	Total BTEX	
880-24905-53	SW-17	Total/NA	Solid	Total BTEX	
880-24905-54	SW-18	Total/NA	Solid	Total BTEX	
880-24905-55	SW-19	Total/NA	Solid	Total BTEX	
880-24905-56	SW-20	Total/NA	Solid	Total BTEX	
880-24905-57	SW-21	Total/NA	Solid	Total BTEX	
880-24905-58	SW-22	Total/NA	Solid	Total BTEX	
880-24905-59	SW-23	Total/NA	Solid	Total BTEX	
880-24905-60	SW-24	Total/NA	Solid	Total BTEX	
880-24905-61	SW-25	Total/NA	Solid	Total BTEX	

Eurofins Midland

QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

GC VOA (Continued)

Analysis Batch: 46947 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-62	SW-26	Total/NA	Solid	Total BTEX	
880-24905-63	SW-27	Total/NA	Solid	Total BTEX	
880-24905-64	SW-28	Total/NA	Solid	Total BTEX	
880-24905-65	SW-29	Total/NA	Solid	Total BTEX	
880-24905-66	SW-30	Total/NA	Solid	Total BTEX	
880-24905-67	SW-31	Total/NA	Solid	Total BTEX	
880-24905-68	SW-32	Total/NA	Solid	Total BTEX	
880-24905-69	SW-33	Total/NA	Solid	Total BTEX	
880-24905-70	SW-34	Total/NA	Solid	Total BTEX	
880-24905-71	SW-35	Total/NA	Solid	Total BTEX	
880-24905-72	SW-36	Total/NA	Solid	Total BTEX	
880-24905-73	SW-37	Total/NA	Solid	Total BTEX	
880-24905-74	SW-38	Total/NA	Solid	Total BTEX	
880-24905-75	SW-39	Total/NA	Solid	Total BTEX	
880-24905-76	SW-40	Total/NA	Solid	Total BTEX	
880-24905-77	SW-41	Total/NA	Solid	Total BTEX	
880-24905-78	SW-42	Total/NA	Solid	Total BTEX	
880-24905-79	SW-43	Total/NA	Solid	Total BTEX	
880-24905-80	SW-44	Total/NA	Solid	Total BTEX	
880-24905-81	SW-45	Total/NA	Solid	Total BTEX	
880-24905-82	SW-46	Total/NA	Solid	Total BTEX	

Prep Batch: 46948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-34	BH-34	Total/NA	Solid	5035	
MB 880-46948/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46948/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-46948/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 46823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-81	SW-45	Total/NA	Solid	8015NM Prep	
880-24905-82	SW-46	Total/NA	Solid	8015NM Prep	
MB 880-46823/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46823/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46823/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 46829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-1	BH-1	Total/NA	Solid	8015B NM	46873
880-24905-2	BH-2	Total/NA	Solid	8015B NM	46873
880-24905-3	BH-3	Total/NA	Solid	8015B NM	46873
880-24905-4	BH-4	Total/NA	Solid	8015B NM	46873
880-24905-5	BH-5	Total/NA	Solid	8015B NM	46873
880-24905-6	BH-6	Total/NA	Solid	8015B NM	46873
880-24905-7	BH-7	Total/NA	Solid	8015B NM	46873
880-24905-8	BH-8	Total/NA	Solid	8015B NM	46873
880-24905-9	BH-9	Total/NA	Solid	8015B NM	46873
880-24905-10	BH-10	Total/NA	Solid	8015B NM	46873

Eurofins Midland

QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

GC Semi VOA (Continued)

Analysis Batch: 46829 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-11	BH-11	Total/NA	Solid	8015B NM	46873
880-24905-12	BH-12	Total/NA	Solid	8015B NM	46873
880-24905-13	BH-13	Total/NA	Solid	8015B NM	46873
880-24905-14	BH-14	Total/NA	Solid	8015B NM	46873
880-24905-15	BH-15	Total/NA	Solid	8015B NM	46873
880-24905-16	BH-16	Total/NA	Solid	8015B NM	46873
880-24905-17	BH-17	Total/NA	Solid	8015B NM	46873
880-24905-18	BH-18	Total/NA	Solid	8015B NM	46873
880-24905-19	BH-19	Total/NA	Solid	8015B NM	46873
880-24905-20	BH-20	Total/NA	Solid	8015B NM	46873
880-24905-81	SW-45	Total/NA	Solid	8015B NM	46823
880-24905-82	SW-46	Total/NA	Solid	8015B NM	46823
MB 880-46823/1-A	Method Blank	Total/NA	Solid	8015B NM	46823
MB 880-46873/1-A	Method Blank	Total/NA	Solid	8015B NM	46873
LCS 880-46823/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46823
LCS 880-46873/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46873
LCSD 880-46823/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46823
LCSD 880-46873/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46873
880-24905-1 MS	BH-1	Total/NA	Solid	8015B NM	46873
880-24905-1 MSD	BH-1	Total/NA	Solid	8015B NM	46873

Analysis Batch: 46831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-21	BH-21	Total/NA	Solid	8015B NM	46875
880-24905-22	BH-22	Total/NA	Solid	8015B NM	46875
880-24905-23	BH-23	Total/NA	Solid	8015B NM	46875
880-24905-24	BH-24	Total/NA	Solid	8015B NM	46875
880-24905-25	BH-25	Total/NA	Solid	8015B NM	46875
880-24905-26	BH-26	Total/NA	Solid	8015B NM	46875
880-24905-27	BH-27	Total/NA	Solid	8015B NM	46875
880-24905-28	BH-28	Total/NA	Solid	8015B NM	46875
880-24905-29	BH-29	Total/NA	Solid	8015B NM	46875
880-24905-30	BH-30	Total/NA	Solid	8015B NM	46875
880-24905-31	BH-31	Total/NA	Solid	8015B NM	46875
880-24905-32	BH-32	Total/NA	Solid	8015B NM	46875
880-24905-33	BH-33	Total/NA	Solid	8015B NM	46875
880-24905-34	BH-34	Total/NA	Solid	8015B NM	46875
880-24905-35	BH-35	Total/NA	Solid	8015B NM	46875
880-24905-36	BH-36	Total/NA	Solid	8015B NM	46875
880-24905-37	SW-1	Total/NA	Solid	8015B NM	46875
880-24905-38	SW-2	Total/NA	Solid	8015B NM	46875
880-24905-39	SW-3	Total/NA	Solid	8015B NM	46875
880-24905-40	SW-4	Total/NA	Solid	8015B NM	46875
MB 880-46875/1-A	Method Blank	Total/NA	Solid	8015B NM	46875
LCS 880-46875/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46875
LCSD 880-46875/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46875
880-24905-21 MS	BH-21	Total/NA	Solid	8015B NM	46875
880-24905-21 MSD	BH-21	Total/NA	Solid	8015B NM	46875

Eurofins Midland

QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

GC Semi VOA

Prep Batch: 46837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-41	SW-5	Total/NA	Solid	8015NM Prep	
880-24905-42	SW-6	Total/NA	Solid	8015NM Prep	
880-24905-43	SW-7	Total/NA	Solid	8015NM Prep	
880-24905-44	SW-8	Total/NA	Solid	8015NM Prep	
880-24905-45	SW-9	Total/NA	Solid	8015NM Prep	
880-24905-46	SW-10	Total/NA	Solid	8015NM Prep	
880-24905-47	SW-11	Total/NA	Solid	8015NM Prep	
880-24905-48	SW-12	Total/NA	Solid	8015NM Prep	
880-24905-49	SW-13	Total/NA	Solid	8015NM Prep	
880-24905-50	SW-14	Total/NA	Solid	8015NM Prep	
880-24905-51	SW-15	Total/NA	Solid	8015NM Prep	
880-24905-52	SW-16	Total/NA	Solid	8015NM Prep	
880-24905-53	SW-17	Total/NA	Solid	8015NM Prep	
880-24905-54	SW-18	Total/NA	Solid	8015NM Prep	
880-24905-55	SW-19	Total/NA	Solid	8015NM Prep	
880-24905-56	SW-20	Total/NA	Solid	8015NM Prep	
880-24905-57	SW-21	Total/NA	Solid	8015NM Prep	
880-24905-58	SW-22	Total/NA	Solid	8015NM Prep	
880-24905-59	SW-23	Total/NA	Solid	8015NM Prep	
880-24905-60	SW-24	Total/NA	Solid	8015NM Prep	
MB 880-46837/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46837/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46837/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-24905-41 MS	SW-5	Total/NA	Solid	8015NM Prep	
880-24905-41 MSD	SW-5	Total/NA	Solid	8015NM Prep	

Prep Batch: 46838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-61	SW-25	Total/NA	Solid	8015NM Prep	
880-24905-62	SW-26	Total/NA	Solid	8015NM Prep	
880-24905-63	SW-27	Total/NA	Solid	8015NM Prep	
880-24905-64	SW-28	Total/NA	Solid	8015NM Prep	
880-24905-65	SW-29	Total/NA	Solid	8015NM Prep	
880-24905-66	SW-30	Total/NA	Solid	8015NM Prep	
880-24905-67	SW-31	Total/NA	Solid	8015NM Prep	
880-24905-68	SW-32	Total/NA	Solid	8015NM Prep	
880-24905-69	SW-33	Total/NA	Solid	8015NM Prep	
880-24905-70	SW-34	Total/NA	Solid	8015NM Prep	
880-24905-71	SW-35	Total/NA	Solid	8015NM Prep	
880-24905-72	SW-36	Total/NA	Solid	8015NM Prep	
880-24905-73	SW-37	Total/NA	Solid	8015NM Prep	
880-24905-74	SW-38	Total/NA	Solid	8015NM Prep	
880-24905-75	SW-39	Total/NA	Solid	8015NM Prep	
880-24905-76	SW-40	Total/NA	Solid	8015NM Prep	
880-24905-77	SW-41	Total/NA	Solid	8015NM Prep	
880-24905-78	SW-42	Total/NA	Solid	8015NM Prep	
880-24905-79	SW-43	Total/NA	Solid	8015NM Prep	
MB 880-46838/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46838/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46838/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-24905-61 MS	SW-25	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

GC Semi VOA (Continued)

Prep Batch: 46838 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-61 MSD	SW-25	Total/NA	Solid	8015NM Prep	

Prep Batch: 46873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-1	BH-1	Total/NA	Solid	8015NM Prep	
880-24905-2	BH-2	Total/NA	Solid	8015NM Prep	
880-24905-3	BH-3	Total/NA	Solid	8015NM Prep	
880-24905-4	BH-4	Total/NA	Solid	8015NM Prep	
880-24905-5	BH-5	Total/NA	Solid	8015NM Prep	
880-24905-6	BH-6	Total/NA	Solid	8015NM Prep	
880-24905-7	BH-7	Total/NA	Solid	8015NM Prep	
880-24905-8	BH-8	Total/NA	Solid	8015NM Prep	
880-24905-9	BH-9	Total/NA	Solid	8015NM Prep	
880-24905-10	BH-10	Total/NA	Solid	8015NM Prep	
880-24905-11	BH-11	Total/NA	Solid	8015NM Prep	
880-24905-12	BH-12	Total/NA	Solid	8015NM Prep	
880-24905-13	BH-13	Total/NA	Solid	8015NM Prep	
880-24905-14	BH-14	Total/NA	Solid	8015NM Prep	
880-24905-15	BH-15	Total/NA	Solid	8015NM Prep	
880-24905-16	BH-16	Total/NA	Solid	8015NM Prep	
880-24905-17	BH-17	Total/NA	Solid	8015NM Prep	
880-24905-18	BH-18	Total/NA	Solid	8015NM Prep	
880-24905-19	BH-19	Total/NA	Solid	8015NM Prep	
880-24905-20	BH-20	Total/NA	Solid	8015NM Prep	
MB 880-46873/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46873/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46873/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-24905-1 MS	BH-1	Total/NA	Solid	8015NM Prep	
880-24905-1 MSD	BH-1	Total/NA	Solid	8015NM Prep	

Prep Batch: 46875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-21	BH-21	Total/NA	Solid	8015NM Prep	
880-24905-22	BH-22	Total/NA	Solid	8015NM Prep	
880-24905-23	BH-23	Total/NA	Solid	8015NM Prep	
880-24905-24	BH-24	Total/NA	Solid	8015NM Prep	
880-24905-25	BH-25	Total/NA	Solid	8015NM Prep	
880-24905-26	BH-26	Total/NA	Solid	8015NM Prep	
880-24905-27	BH-27	Total/NA	Solid	8015NM Prep	
880-24905-28	BH-28	Total/NA	Solid	8015NM Prep	
880-24905-29	BH-29	Total/NA	Solid	8015NM Prep	
880-24905-30	BH-30	Total/NA	Solid	8015NM Prep	
880-24905-31	BH-31	Total/NA	Solid	8015NM Prep	
880-24905-32	BH-32	Total/NA	Solid	8015NM Prep	
880-24905-33	BH-33	Total/NA	Solid	8015NM Prep	
880-24905-34	BH-34	Total/NA	Solid	8015NM Prep	
880-24905-35	BH-35	Total/NA	Solid	8015NM Prep	
880-24905-36	BH-36	Total/NA	Solid	8015NM Prep	
880-24905-37	SW-1	Total/NA	Solid	8015NM Prep	
880-24905-38	SW-2	Total/NA	Solid	8015NM Prep	
880-24905-39	SW-3	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

GC Semi VOA (Continued)

Prep Batch: 46875 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-40	SW-4	Total/NA	Solid	8015NM Prep	
MB 880-46875/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46875/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46875/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-24905-21 MS	BH-21	Total/NA	Solid	8015NM Prep	
880-24905-21 MSD	BH-21	Total/NA	Solid	8015NM Prep	

Analysis Batch: 46919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-41	SW-5	Total/NA	Solid	8015B NM	46837
880-24905-42	SW-6	Total/NA	Solid	8015B NM	46837
880-24905-43	SW-7	Total/NA	Solid	8015B NM	46837
880-24905-44	SW-8	Total/NA	Solid	8015B NM	46837
880-24905-45	SW-9	Total/NA	Solid	8015B NM	46837
880-24905-46	SW-10	Total/NA	Solid	8015B NM	46837
880-24905-47	SW-11	Total/NA	Solid	8015B NM	46837
880-24905-48	SW-12	Total/NA	Solid	8015B NM	46837
880-24905-49	SW-13	Total/NA	Solid	8015B NM	46837
880-24905-50	SW-14	Total/NA	Solid	8015B NM	46837
880-24905-51	SW-15	Total/NA	Solid	8015B NM	46837
880-24905-52	SW-16	Total/NA	Solid	8015B NM	46837
880-24905-53	SW-17	Total/NA	Solid	8015B NM	46837
880-24905-54	SW-18	Total/NA	Solid	8015B NM	46837
880-24905-55	SW-19	Total/NA	Solid	8015B NM	46837
880-24905-56	SW-20	Total/NA	Solid	8015B NM	46837
880-24905-57	SW-21	Total/NA	Solid	8015B NM	46837
880-24905-58	SW-22	Total/NA	Solid	8015B NM	46837
880-24905-59	SW-23	Total/NA	Solid	8015B NM	46837
880-24905-60	SW-24	Total/NA	Solid	8015B NM	46837
880-24905-61	SW-25	Total/NA	Solid	8015B NM	46838
880-24905-62	SW-26	Total/NA	Solid	8015B NM	46838
880-24905-63	SW-27	Total/NA	Solid	8015B NM	46838
880-24905-64	SW-28	Total/NA	Solid	8015B NM	46838
880-24905-65	SW-29	Total/NA	Solid	8015B NM	46838
880-24905-66	SW-30	Total/NA	Solid	8015B NM	46838
880-24905-67	SW-31	Total/NA	Solid	8015B NM	46838
880-24905-68	SW-32	Total/NA	Solid	8015B NM	46838
880-24905-69	SW-33	Total/NA	Solid	8015B NM	46838
880-24905-70	SW-34	Total/NA	Solid	8015B NM	46838
880-24905-71	SW-35	Total/NA	Solid	8015B NM	46838
880-24905-72	SW-36	Total/NA	Solid	8015B NM	46838
880-24905-73	SW-37	Total/NA	Solid	8015B NM	46838
880-24905-74	SW-38	Total/NA	Solid	8015B NM	46838
880-24905-75	SW-39	Total/NA	Solid	8015B NM	46838
880-24905-76	SW-40	Total/NA	Solid	8015B NM	46838
880-24905-77	SW-41	Total/NA	Solid	8015B NM	46838
880-24905-78	SW-42	Total/NA	Solid	8015B NM	46838
880-24905-79	SW-43	Total/NA	Solid	8015B NM	46838
MB 880-46837/1-A	Method Blank	Total/NA	Solid	8015B NM	46837
MB 880-46838/1-A	Method Blank	Total/NA	Solid	8015B NM	46838
LCS 880-46837/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46837

Eurofins Midland

QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

GC Semi VOA (Continued)

Analysis Batch: 46919 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-46838/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46838
LCSD 880-46837/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46837
LCSD 880-46838/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46838
880-24905-41 MS	SW-5	Total/NA	Solid	8015B NM	46837
880-24905-41 MSD	SW-5	Total/NA	Solid	8015B NM	46837
880-24905-61 MS	SW-25	Total/NA	Solid	8015B NM	46838
880-24905-61 MSD	SW-25	Total/NA	Solid	8015B NM	46838

Analysis Batch: 46958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-1	BH-1	Total/NA	Solid	8015 NM	
880-24905-2	BH-2	Total/NA	Solid	8015 NM	
880-24905-3	BH-3	Total/NA	Solid	8015 NM	
880-24905-4	BH-4	Total/NA	Solid	8015 NM	
880-24905-5	BH-5	Total/NA	Solid	8015 NM	
880-24905-6	BH-6	Total/NA	Solid	8015 NM	
880-24905-7	BH-7	Total/NA	Solid	8015 NM	
880-24905-8	BH-8	Total/NA	Solid	8015 NM	
880-24905-9	BH-9	Total/NA	Solid	8015 NM	
880-24905-10	BH-10	Total/NA	Solid	8015 NM	
880-24905-11	BH-11	Total/NA	Solid	8015 NM	
880-24905-12	BH-12	Total/NA	Solid	8015 NM	
880-24905-13	BH-13	Total/NA	Solid	8015 NM	
880-24905-14	BH-14	Total/NA	Solid	8015 NM	
880-24905-15	BH-15	Total/NA	Solid	8015 NM	
880-24905-16	BH-16	Total/NA	Solid	8015 NM	
880-24905-17	BH-17	Total/NA	Solid	8015 NM	
880-24905-18	BH-18	Total/NA	Solid	8015 NM	
880-24905-19	BH-19	Total/NA	Solid	8015 NM	
880-24905-20	BH-20	Total/NA	Solid	8015 NM	
880-24905-21	BH-21	Total/NA	Solid	8015 NM	
880-24905-22	BH-22	Total/NA	Solid	8015 NM	
880-24905-23	BH-23	Total/NA	Solid	8015 NM	
880-24905-24	BH-24	Total/NA	Solid	8015 NM	
880-24905-25	BH-25	Total/NA	Solid	8015 NM	
880-24905-26	BH-26	Total/NA	Solid	8015 NM	
880-24905-27	BH-27	Total/NA	Solid	8015 NM	
880-24905-28	BH-28	Total/NA	Solid	8015 NM	
880-24905-29	BH-29	Total/NA	Solid	8015 NM	
880-24905-30	BH-30	Total/NA	Solid	8015 NM	
880-24905-31	BH-31	Total/NA	Solid	8015 NM	
880-24905-32	BH-32	Total/NA	Solid	8015 NM	
880-24905-33	BH-33	Total/NA	Solid	8015 NM	
880-24905-34	BH-34	Total/NA	Solid	8015 NM	
880-24905-35	BH-35	Total/NA	Solid	8015 NM	
880-24905-36	BH-36	Total/NA	Solid	8015 NM	
880-24905-37	SW-1	Total/NA	Solid	8015 NM	
880-24905-38	SW-2	Total/NA	Solid	8015 NM	
880-24905-39	SW-3	Total/NA	Solid	8015 NM	
880-24905-40	SW-4	Total/NA	Solid	8015 NM	
880-24905-41	SW-5	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

GC Semi VOA (Continued)

Analysis Batch: 46958 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-42	SW-6	Total/NA	Solid	8015 NM	
880-24905-43	SW-7	Total/NA	Solid	8015 NM	
880-24905-44	SW-8	Total/NA	Solid	8015 NM	
880-24905-45	SW-9	Total/NA	Solid	8015 NM	
880-24905-46	SW-10	Total/NA	Solid	8015 NM	
880-24905-47	SW-11	Total/NA	Solid	8015 NM	
880-24905-48	SW-12	Total/NA	Solid	8015 NM	
880-24905-49	SW-13	Total/NA	Solid	8015 NM	
880-24905-50	SW-14	Total/NA	Solid	8015 NM	
880-24905-51	SW-15	Total/NA	Solid	8015 NM	
880-24905-52	SW-16	Total/NA	Solid	8015 NM	
880-24905-53	SW-17	Total/NA	Solid	8015 NM	
880-24905-54	SW-18	Total/NA	Solid	8015 NM	
880-24905-55	SW-19	Total/NA	Solid	8015 NM	
880-24905-56	SW-20	Total/NA	Solid	8015 NM	
880-24905-57	SW-21	Total/NA	Solid	8015 NM	
880-24905-58	SW-22	Total/NA	Solid	8015 NM	
880-24905-59	SW-23	Total/NA	Solid	8015 NM	
880-24905-60	SW-24	Total/NA	Solid	8015 NM	
880-24905-61	SW-25	Total/NA	Solid	8015 NM	
880-24905-62	SW-26	Total/NA	Solid	8015 NM	
880-24905-63	SW-27	Total/NA	Solid	8015 NM	
880-24905-64	SW-28	Total/NA	Solid	8015 NM	
880-24905-65	SW-29	Total/NA	Solid	8015 NM	
880-24905-66	SW-30	Total/NA	Solid	8015 NM	
880-24905-67	SW-31	Total/NA	Solid	8015 NM	
880-24905-68	SW-32	Total/NA	Solid	8015 NM	
880-24905-69	SW-33	Total/NA	Solid	8015 NM	
880-24905-70	SW-34	Total/NA	Solid	8015 NM	
880-24905-71	SW-35	Total/NA	Solid	8015 NM	
880-24905-72	SW-36	Total/NA	Solid	8015 NM	
880-24905-73	SW-37	Total/NA	Solid	8015 NM	
880-24905-74	SW-38	Total/NA	Solid	8015 NM	
880-24905-75	SW-39	Total/NA	Solid	8015 NM	
880-24905-76	SW-40	Total/NA	Solid	8015 NM	
880-24905-77	SW-41	Total/NA	Solid	8015 NM	
880-24905-78	SW-42	Total/NA	Solid	8015 NM	
880-24905-79	SW-43	Total/NA	Solid	8015 NM	
880-24905-80	SW-44	Total/NA	Solid	8015 NM	
880-24905-81	SW-45	Total/NA	Solid	8015 NM	
880-24905-82	SW-46	Total/NA	Solid	8015 NM	

Analysis Batch: 47221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-80	SW-44	Total/NA	Solid	8015B NM	47228
MB 880-47228/1-A	Method Blank	Total/NA	Solid	8015B NM	47228
LCS 880-47228/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47228
LCSD 880-47228/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47228

Eurofins Midland

QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

GC Semi VOA

Prep Batch: 47228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-80	SW-44	Total/NA	Solid	8015NM Prep	
MB 880-47228/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47228/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47228/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 46719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-81	SW-45	Soluble	Solid	DI Leach	
880-24905-82	SW-46	Soluble	Solid	DI Leach	
MB 880-46719/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46719/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46719/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 46721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-1	BH-1	Soluble	Solid	DI Leach	
880-24905-2	BH-2	Soluble	Solid	DI Leach	
880-24905-3	BH-3	Soluble	Solid	DI Leach	
880-24905-4	BH-4	Soluble	Solid	DI Leach	
880-24905-5	BH-5	Soluble	Solid	DI Leach	
880-24905-6	BH-6	Soluble	Solid	DI Leach	
880-24905-7	BH-7	Soluble	Solid	DI Leach	
880-24905-8	BH-8	Soluble	Solid	DI Leach	
880-24905-9	BH-9	Soluble	Solid	DI Leach	
880-24905-10	BH-10	Soluble	Solid	DI Leach	
880-24905-11	BH-11	Soluble	Solid	DI Leach	
880-24905-12	BH-12	Soluble	Solid	DI Leach	
880-24905-13	BH-13	Soluble	Solid	DI Leach	
880-24905-14	BH-14	Soluble	Solid	DI Leach	
880-24905-15	BH-15	Soluble	Solid	DI Leach	
880-24905-16	BH-16	Soluble	Solid	DI Leach	
880-24905-17	BH-17	Soluble	Solid	DI Leach	
880-24905-18	BH-18	Soluble	Solid	DI Leach	
880-24905-19	BH-19	Soluble	Solid	DI Leach	
880-24905-20	BH-20	Soluble	Solid	DI Leach	
MB 880-46721/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46721/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46721/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-24905-1 MS	BH-1	Soluble	Solid	DI Leach	
880-24905-1 MSD	BH-1	Soluble	Solid	DI Leach	
880-24905-11 MS	BH-11	Soluble	Solid	DI Leach	
880-24905-11 MSD	BH-11	Soluble	Solid	DI Leach	

Leach Batch: 46722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-21	BH-21	Soluble	Solid	DI Leach	
880-24905-22	BH-22	Soluble	Solid	DI Leach	
880-24905-23	BH-23	Soluble	Solid	DI Leach	
880-24905-24	BH-24	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

HPLC/IC (Continued)

Leach Batch: 46722 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-25	BH-25	Soluble	Solid	DI Leach	
880-24905-26	BH-26	Soluble	Solid	DI Leach	
880-24905-27	BH-27	Soluble	Solid	DI Leach	
880-24905-28	BH-28	Soluble	Solid	DI Leach	
880-24905-29	BH-29	Soluble	Solid	DI Leach	
880-24905-30	BH-30	Soluble	Solid	DI Leach	
880-24905-31	BH-31	Soluble	Solid	DI Leach	
880-24905-32	BH-32	Soluble	Solid	DI Leach	
880-24905-33	BH-33	Soluble	Solid	DI Leach	
880-24905-34	BH-34	Soluble	Solid	DI Leach	
880-24905-35	BH-35	Soluble	Solid	DI Leach	
880-24905-36	BH-36	Soluble	Solid	DI Leach	
880-24905-37	SW-1	Soluble	Solid	DI Leach	
880-24905-38	SW-2	Soluble	Solid	DI Leach	
880-24905-39	SW-3	Soluble	Solid	DI Leach	
880-24905-40	SW-4	Soluble	Solid	DI Leach	
MB 880-46722/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46722/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46722/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-24905-21 MS	BH-21	Soluble	Solid	DI Leach	
880-24905-21 MSD	BH-21	Soluble	Solid	DI Leach	
880-24905-31 MS	BH-31	Soluble	Solid	DI Leach	
880-24905-31 MSD	BH-31	Soluble	Solid	DI Leach	

Leach Batch: 46723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-41	SW-5	Soluble	Solid	DI Leach	
880-24905-42	SW-6	Soluble	Solid	DI Leach	
880-24905-43	SW-7	Soluble	Solid	DI Leach	
880-24905-44	SW-8	Soluble	Solid	DI Leach	
880-24905-45	SW-9	Soluble	Solid	DI Leach	
880-24905-46	SW-10	Soluble	Solid	DI Leach	
880-24905-47	SW-11	Soluble	Solid	DI Leach	
880-24905-48	SW-12	Soluble	Solid	DI Leach	
880-24905-49	SW-13	Soluble	Solid	DI Leach	
880-24905-50	SW-14	Soluble	Solid	DI Leach	
880-24905-51	SW-15	Soluble	Solid	DI Leach	
880-24905-52	SW-16	Soluble	Solid	DI Leach	
880-24905-53	SW-17	Soluble	Solid	DI Leach	
880-24905-54	SW-18	Soluble	Solid	DI Leach	
880-24905-55	SW-19	Soluble	Solid	DI Leach	
880-24905-56	SW-20	Soluble	Solid	DI Leach	
880-24905-57	SW-21	Soluble	Solid	DI Leach	
880-24905-58	SW-22	Soluble	Solid	DI Leach	
880-24905-59	SW-23	Soluble	Solid	DI Leach	
880-24905-60	SW-24	Soluble	Solid	DI Leach	
MB 880-46723/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46723/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46723/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-24905-41 MS	SW-5	Soluble	Solid	DI Leach	
880-24905-41 MSD	SW-5	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

HPLC/IC (Continued)

Leach Batch: 46723 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-51 MS	SW-15	Soluble	Solid	DI Leach	
880-24905-51 MSD	SW-15	Soluble	Solid	DI Leach	

Leach Batch: 46724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-61	SW-25	Soluble	Solid	DI Leach	
880-24905-62	SW-26	Soluble	Solid	DI Leach	
880-24905-63	SW-27	Soluble	Solid	DI Leach	
880-24905-64	SW-28	Soluble	Solid	DI Leach	
880-24905-65	SW-29	Soluble	Solid	DI Leach	
880-24905-66	SW-30	Soluble	Solid	DI Leach	
880-24905-67	SW-31	Soluble	Solid	DI Leach	
880-24905-68	SW-32	Soluble	Solid	DI Leach	
880-24905-69	SW-33	Soluble	Solid	DI Leach	
880-24905-70	SW-34	Soluble	Solid	DI Leach	
880-24905-71	SW-35	Soluble	Solid	DI Leach	
880-24905-72	SW-36	Soluble	Solid	DI Leach	
880-24905-73	SW-37	Soluble	Solid	DI Leach	
880-24905-74	SW-38	Soluble	Solid	DI Leach	
880-24905-75	SW-39	Soluble	Solid	DI Leach	
880-24905-76	SW-40	Soluble	Solid	DI Leach	
880-24905-77	SW-41	Soluble	Solid	DI Leach	
880-24905-78	SW-42	Soluble	Solid	DI Leach	
880-24905-79	SW-43	Soluble	Solid	DI Leach	
880-24905-80	SW-44	Soluble	Solid	DI Leach	
MB 880-46724/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46724/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46724/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-24905-61 MS	SW-25	Soluble	Solid	DI Leach	
880-24905-61 MSD	SW-25	Soluble	Solid	DI Leach	
880-24905-71 MS	SW-35	Soluble	Solid	DI Leach	
880-24905-71 MSD	SW-35	Soluble	Solid	DI Leach	

Analysis Batch: 47125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-1	BH-1	Soluble	Solid	300.0	46721
880-24905-2	BH-2	Soluble	Solid	300.0	46721
880-24905-3	BH-3	Soluble	Solid	300.0	46721
880-24905-4	BH-4	Soluble	Solid	300.0	46721
880-24905-5	BH-5	Soluble	Solid	300.0	46721
880-24905-6	BH-6	Soluble	Solid	300.0	46721
880-24905-7	BH-7	Soluble	Solid	300.0	46721
880-24905-8	BH-8	Soluble	Solid	300.0	46721
880-24905-9	BH-9	Soluble	Solid	300.0	46721
880-24905-10	BH-10	Soluble	Solid	300.0	46721
880-24905-11	BH-11	Soluble	Solid	300.0	46721
880-24905-12	BH-12	Soluble	Solid	300.0	46721
880-24905-13	BH-13	Soluble	Solid	300.0	46721
880-24905-14	BH-14	Soluble	Solid	300.0	46721
880-24905-15	BH-15	Soluble	Solid	300.0	46721
880-24905-16	BH-16	Soluble	Solid	300.0	46721

Eurofins Midland

QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

HPLC/IC (Continued)

Analysis Batch: 47125 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-17	BH-17	Soluble	Solid	300.0	46721
880-24905-18	BH-18	Soluble	Solid	300.0	46721
880-24905-19	BH-19	Soluble	Solid	300.0	46721
880-24905-20	BH-20	Soluble	Solid	300.0	46721
MB 880-46721/1-A	Method Blank	Soluble	Solid	300.0	46721
LCS 880-46721/2-A	Lab Control Sample	Soluble	Solid	300.0	46721
LCSD 880-46721/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46721
880-24905-1 MS	BH-1	Soluble	Solid	300.0	46721
880-24905-1 MSD	BH-1	Soluble	Solid	300.0	46721
880-24905-11 MS	BH-11	Soluble	Solid	300.0	46721
880-24905-11 MSD	BH-11	Soluble	Solid	300.0	46721

Analysis Batch: 47126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-21	BH-21	Soluble	Solid	300.0	46722
880-24905-22	BH-22	Soluble	Solid	300.0	46722
880-24905-23	BH-23	Soluble	Solid	300.0	46722
880-24905-24	BH-24	Soluble	Solid	300.0	46722
880-24905-25	BH-25	Soluble	Solid	300.0	46722
880-24905-26	BH-26	Soluble	Solid	300.0	46722
880-24905-27	BH-27	Soluble	Solid	300.0	46722
880-24905-28	BH-28	Soluble	Solid	300.0	46722
880-24905-29	BH-29	Soluble	Solid	300.0	46722
880-24905-30	BH-30	Soluble	Solid	300.0	46722
880-24905-31	BH-31	Soluble	Solid	300.0	46722
880-24905-32	BH-32	Soluble	Solid	300.0	46722
880-24905-33	BH-33	Soluble	Solid	300.0	46722
880-24905-34	BH-34	Soluble	Solid	300.0	46722
880-24905-35	BH-35	Soluble	Solid	300.0	46722
880-24905-36	BH-36	Soluble	Solid	300.0	46722
880-24905-37	SW-1	Soluble	Solid	300.0	46722
880-24905-38	SW-2	Soluble	Solid	300.0	46722
880-24905-39	SW-3	Soluble	Solid	300.0	46722
880-24905-40	SW-4	Soluble	Solid	300.0	46722
MB 880-46722/1-A	Method Blank	Soluble	Solid	300.0	46722
LCS 880-46722/2-A	Lab Control Sample	Soluble	Solid	300.0	46722
LCSD 880-46722/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46722
880-24905-21 MS	BH-21	Soluble	Solid	300.0	46722
880-24905-21 MSD	BH-21	Soluble	Solid	300.0	46722
880-24905-31 MS	BH-31	Soluble	Solid	300.0	46722
880-24905-31 MSD	BH-31	Soluble	Solid	300.0	46722

Analysis Batch: 47127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-41	SW-5	Soluble	Solid	300.0	46723
880-24905-42	SW-6	Soluble	Solid	300.0	46723
880-24905-43	SW-7	Soluble	Solid	300.0	46723
880-24905-44	SW-8	Soluble	Solid	300.0	46723
880-24905-45	SW-9	Soluble	Solid	300.0	46723
880-24905-46	SW-10	Soluble	Solid	300.0	46723
880-24905-47	SW-11	Soluble	Solid	300.0	46723

Eurofins Midland

QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

HPLC/IC (Continued)

Analysis Batch: 47127 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-48	SW-12	Soluble	Solid	300.0	46723
880-24905-49	SW-13	Soluble	Solid	300.0	46723
880-24905-50	SW-14	Soluble	Solid	300.0	46723
880-24905-51	SW-15	Soluble	Solid	300.0	46723
880-24905-52	SW-16	Soluble	Solid	300.0	46723
880-24905-53	SW-17	Soluble	Solid	300.0	46723
880-24905-54	SW-18	Soluble	Solid	300.0	46723
880-24905-55	SW-19	Soluble	Solid	300.0	46723
880-24905-56	SW-20	Soluble	Solid	300.0	46723
880-24905-57	SW-21	Soluble	Solid	300.0	46723
880-24905-58	SW-22	Soluble	Solid	300.0	46723
880-24905-59	SW-23	Soluble	Solid	300.0	46723
880-24905-60	SW-24	Soluble	Solid	300.0	46723
MB 880-46723/1-A	Method Blank	Soluble	Solid	300.0	46723
LCS 880-46723/2-A	Lab Control Sample	Soluble	Solid	300.0	46723
LCSD 880-46723/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46723
880-24905-41 MS	SW-5	Soluble	Solid	300.0	46723
880-24905-41 MSD	SW-5	Soluble	Solid	300.0	46723
880-24905-51 MS	SW-15	Soluble	Solid	300.0	46723
880-24905-51 MSD	SW-15	Soluble	Solid	300.0	46723

Analysis Batch: 47128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-61	SW-25	Soluble	Solid	300.0	46724
880-24905-62	SW-26	Soluble	Solid	300.0	46724
880-24905-63	SW-27	Soluble	Solid	300.0	46724
880-24905-64	SW-28	Soluble	Solid	300.0	46724
880-24905-65	SW-29	Soluble	Solid	300.0	46724
880-24905-66	SW-30	Soluble	Solid	300.0	46724
880-24905-67	SW-31	Soluble	Solid	300.0	46724
880-24905-68	SW-32	Soluble	Solid	300.0	46724
880-24905-69	SW-33	Soluble	Solid	300.0	46724
880-24905-70	SW-34	Soluble	Solid	300.0	46724
880-24905-71	SW-35	Soluble	Solid	300.0	46724
880-24905-72	SW-36	Soluble	Solid	300.0	46724
880-24905-73	SW-37	Soluble	Solid	300.0	46724
880-24905-74	SW-38	Soluble	Solid	300.0	46724
880-24905-75	SW-39	Soluble	Solid	300.0	46724
880-24905-76	SW-40	Soluble	Solid	300.0	46724
880-24905-77	SW-41	Soluble	Solid	300.0	46724
880-24905-78	SW-42	Soluble	Solid	300.0	46724
880-24905-79	SW-43	Soluble	Solid	300.0	46724
880-24905-80	SW-44	Soluble	Solid	300.0	46724
MB 880-46724/1-A	Method Blank	Soluble	Solid	300.0	46724
LCS 880-46724/2-A	Lab Control Sample	Soluble	Solid	300.0	46724
LCSD 880-46724/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46724
880-24905-61 MS	SW-25	Soluble	Solid	300.0	46724
880-24905-61 MSD	SW-25	Soluble	Solid	300.0	46724
880-24905-71 MS	SW-35	Soluble	Solid	300.0	46724
880-24905-71 MSD	SW-35	Soluble	Solid	300.0	46724

Eurofins Midland

QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

HPLC/IC

Analysis Batch: 47190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-24905-81	SW-45	Soluble	Solid	300.0	46719
880-24905-82	SW-46	Soluble	Solid	300.0	46719
MB 880-46719/1-A	Method Blank	Soluble	Solid	300.0	46719
LCS 880-46719/2-A	Lab Control Sample	Soluble	Solid	300.0	46719
LCSD 880-46719/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46719

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-1
Date Collected: 02/16/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-1
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	46862	02/21/23 14:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46820	02/22/23 02:59	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/22/23 14:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46873	02/21/23 14:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46829	02/21/23 21:00	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	46721	02/20/23 13:09	KS	EET MID
Soluble	Analysis	300.0		1			47125	02/24/23 01:07	CH	EET MID

Client Sample ID: BH-2
Date Collected: 02/16/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-2
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			4.99 g	5 mL	46862	02/21/23 14:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46820	02/22/23 03:20	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/22/23 14:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46873	02/21/23 14:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46829	02/21/23 22:05	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46721	02/20/23 13:09	KS	EET MID
Soluble	Analysis	300.0		1			47125	02/24/23 01:25	CH	EET MID

Client Sample ID: BH-3
Date Collected: 02/16/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-3
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	46862	02/21/23 14:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46820	02/22/23 03:40	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/22/23 14:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46873	02/21/23 14:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46829	02/21/23 22:27	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	46721	02/20/23 13:09	KS	EET MID
Soluble	Analysis	300.0		1			47125	02/24/23 01:32	CH	EET MID

Client Sample ID: BH-4
Date Collected: 02/16/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-4
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			5.03 g	5 mL	46862	02/21/23 14:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46820	02/22/23 04:01	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/22/23 14:13	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-4

Lab Sample ID: 880-24905-4

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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			46958	02/22/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46873	02/21/23 14:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46829	02/21/23 22:49	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	46721	02/20/23 13:09	KS	EET MID
Soluble	Analysis	300.0		1			47125	02/24/23 01:38	CH	EET MID

Client Sample ID: BH-5

Lab Sample ID: 880-24905-5

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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	46862	02/21/23 14:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46820	02/22/23 04:21	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/22/23 14:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46873	02/21/23 14:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46829	02/21/23 23:11	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46721	02/20/23 13:09	KS	EET MID
Soluble	Analysis	300.0		1			47125	02/24/23 01:44	CH	EET MID

Client Sample ID: BH-6

Lab Sample ID: 880-24905-6

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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	46862	02/21/23 14:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46820	02/22/23 04:42	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/22/23 14:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46873	02/21/23 14:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46829	02/21/23 23:33	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	46721	02/20/23 13:09	KS	EET MID
Soluble	Analysis	300.0		1			47125	02/24/23 02:02	CH	EET MID

Client Sample ID: BH-7

Lab Sample ID: 880-24905-7

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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	46862	02/21/23 14:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46820	02/22/23 05:02	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/22/23 14:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46873	02/21/23 14:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46829	02/21/23 23:56	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-7
Date Collected: 02/16/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-7
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			5.03 g	50 mL	46721	02/20/23 13:09	KS	EET MID
Soluble	Analysis	300.0		1			47125	02/24/23 02:08	CH	EET MID

Client Sample ID: BH-8
Date Collected: 02/16/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-8
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			5.02 g	5 mL	46862	02/21/23 14:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46820	02/22/23 05:23	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/22/23 14:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46873	02/21/23 14:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46829	02/22/23 00:18	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46721	02/20/23 13:09	KS	EET MID
Soluble	Analysis	300.0		1			47125	02/24/23 02:15	CH	EET MID

Client Sample ID: BH-9
Date Collected: 02/16/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-9
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	46862	02/21/23 14:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46820	02/22/23 05:43	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/22/23 14:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46873	02/21/23 14:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46829	02/22/23 00:40	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	46721	02/20/23 13:09	KS	EET MID
Soluble	Analysis	300.0		1			47125	02/24/23 02:21	CH	EET MID

Client Sample ID: BH-10
Date Collected: 02/16/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-10
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			5.02 g	5 mL	46862	02/21/23 14:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46820	02/22/23 07:33	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/22/23 14:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46873	02/21/23 14:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46829	02/22/23 01:02	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	46721	02/20/23 13:09	KS	EET MID
Soluble	Analysis	300.0		1			47125	02/24/23 02:27	CH	EET MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-11
Date Collected: 02/16/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-11
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			5.03 g	5 mL	46862	02/21/23 14:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46820	02/22/23 07:54	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/22/23 14:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46873	02/21/23 14:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46829	02/22/23 01:47	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46721	02/20/23 13:09	KS	EET MID
Soluble	Analysis	300.0		1			47125	02/24/23 02:33	CH	EET MID

Client Sample ID: BH-12
Date Collected: 02/16/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-12
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			4.99 g	5 mL	46933	02/22/23 09:33	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46926	02/23/23 03:31	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46873	02/21/23 14:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46829	02/22/23 02:10	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46721	02/20/23 13:09	KS	EET MID
Soluble	Analysis	300.0		1			47125	02/24/23 02:52	CH	EET MID

Client Sample ID: BH-13
Date Collected: 02/16/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-13
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			5.01 g	5 mL	46862	02/21/23 14:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46820	02/22/23 08:35	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/22/23 14:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46873	02/21/23 14:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46829	02/22/23 02:31	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46721	02/20/23 13:09	KS	EET MID
Soluble	Analysis	300.0		1			47125	02/24/23 02:58	CH	EET MID

Client Sample ID: BH-14
Date Collected: 02/16/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-14
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	46862	02/21/23 14:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46820	02/22/23 08:55	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/22/23 14:13	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-14

Lab Sample ID: 880-24905-14

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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			46958	02/22/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46873	02/21/23 14:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46829	02/22/23 02:53	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	46721	02/20/23 13:09	KS	EET MID
Soluble	Analysis	300.0		1			47125	02/24/23 03:16	CH	EET MID

Client Sample ID: BH-15

Lab Sample ID: 880-24905-15

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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	46862	02/21/23 14:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46820	02/22/23 09:16	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/22/23 14:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46873	02/21/23 14:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46829	02/22/23 03:16	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	46721	02/20/23 13:09	KS	EET MID
Soluble	Analysis	300.0		1			47125	02/24/23 03:22	CH	EET MID

Client Sample ID: BH-16

Lab Sample ID: 880-24905-16

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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	46862	02/21/23 14:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46820	02/22/23 09:36	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/22/23 14:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46873	02/21/23 14:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46829	02/22/23 03:38	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	46721	02/20/23 13:09	KS	EET MID
Soluble	Analysis	300.0		1			47125	02/24/23 03:29	CH	EET MID

Client Sample ID: BH-17

Lab Sample ID: 880-24905-17

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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	46862	02/21/23 14:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46820	02/22/23 09:57	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/22/23 14:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46873	02/21/23 14:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46829	02/22/23 04:01	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-17**Lab Sample ID: 880-24905-17****Date Collected: 02/16/23 00:00****Matrix: Solid****Date Received: 02/17/23 16:33**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	46721	02/20/23 13:09	KS	EET MID
Soluble	Analysis	300.0		1			47125	02/24/23 03:35	CH	EET MID

Client Sample ID: BH-18**Lab Sample ID: 880-24905-18****Date Collected: 02/16/23 00:00****Matrix: Solid****Date Received: 02/17/23 16:33**

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	46862	02/21/23 14:27	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46820	02/22/23 10:17	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/22/23 14:13	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46873	02/21/23 14:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46829	02/22/23 04:23	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46721	02/20/23 13:09	KS	EET MID
Soluble	Analysis	300.0		1			47125	02/24/23 03:41	CH	EET MID

Client Sample ID: BH-19**Lab Sample ID: 880-24905-19****Date Collected: 02/16/23 00:00****Matrix: Solid****Date Received: 02/17/23 16:33**

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	46865	02/21/23 14:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46927	02/22/23 11:19	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/22/23 17:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46873	02/21/23 14:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46829	02/22/23 04:46	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	46721	02/20/23 13:09	KS	EET MID
Soluble	Analysis	300.0		1			47125	02/24/23 03:47	CH	EET MID

Client Sample ID: BH-20**Lab Sample ID: 880-24905-20****Date Collected: 02/16/23 00:00****Matrix: Solid****Date Received: 02/17/23 16:33**

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	46865	02/21/23 14:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46927	02/22/23 11:39	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/22/23 17:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46873	02/21/23 14:47	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46829	02/22/23 06:50	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46721	02/20/23 13:09	KS	EET MID
Soluble	Analysis	300.0		1			47125	02/24/23 03:53	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-21**Lab Sample ID: 880-24905-21****Date Collected: 02/16/23 00:00****Matrix: Solid****Date Received: 02/17/23 16:33**

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	46865	02/21/23 14:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46927	02/22/23 12:00	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/22/23 17:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46875	02/21/23 14:51	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46831	02/21/23 21:00	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	46722	02/20/23 13:10	KS	EET MID
Soluble	Analysis	300.0		1			47126	02/24/23 04:42	CH	EET MID

Client Sample ID: BH-22**Lab Sample ID: 880-24905-22****Date Collected: 02/16/23 00:00****Matrix: Solid****Date Received: 02/17/23 16:33**

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	46865	02/21/23 14:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46927	02/22/23 12:20	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/22/23 17:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46875	02/21/23 14:51	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46831	02/21/23 22:05	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46722	02/20/23 13:10	KS	EET MID
Soluble	Analysis	300.0		1			47126	02/24/23 05:01	CH	EET MID

Client Sample ID: BH-23**Lab Sample ID: 880-24905-23****Date Collected: 02/16/23 00:00****Matrix: Solid****Date Received: 02/17/23 16:33**

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	46865	02/21/23 14:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46927	02/22/23 12:41	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/22/23 17:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46875	02/21/23 14:51	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46831	02/21/23 22:27	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46722	02/20/23 13:10	KS	EET MID
Soluble	Analysis	300.0		1			47126	02/24/23 05:07	CH	EET MID

Client Sample ID: BH-24**Lab Sample ID: 880-24905-24****Date Collected: 02/16/23 00:00****Matrix: Solid****Date Received: 02/17/23 16:33**

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	46865	02/21/23 14:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46927	02/22/23 13:01	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/22/23 17:53	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-24

Lab Sample ID: 880-24905-24

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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			46958	02/22/23 16:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46875	02/21/23 14:51	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46831	02/21/23 22:49	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	46722	02/20/23 13:10	KS	EET MID
Soluble	Analysis	300.0		1			47126	02/24/23 05:13	CH	EET MID

Client Sample ID: BH-25

Lab Sample ID: 880-24905-25

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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	46865	02/21/23 14:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46927	02/22/23 13:22	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/22/23 17:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46875	02/21/23 14:51	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46831	02/21/23 23:11	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	46722	02/20/23 13:10	KS	EET MID
Soluble	Analysis	300.0		1			47126	02/24/23 05:19	CH	EET MID

Client Sample ID: BH-26

Lab Sample ID: 880-24905-26

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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	46865	02/21/23 14:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46927	02/22/23 13:42	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/22/23 17:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46875	02/21/23 14:51	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46831	02/21/23 23:33	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	46722	02/20/23 13:10	KS	EET MID
Soluble	Analysis	300.0		1			47126	02/24/23 05:38	CH	EET MID

Client Sample ID: BH-27

Lab Sample ID: 880-24905-27

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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	46865	02/21/23 14:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46927	02/22/23 14:03	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/22/23 17:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46875	02/21/23 14:51	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46831	02/21/23 23:56	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-27
Date Collected: 02/16/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-27
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			5.03 g	50 mL	46722	02/20/23 13:10	KS	EET MID
Soluble	Analysis	300.0		1			47126	02/24/23 05:44	CH	EET MID

Client Sample ID: BH-28
Date Collected: 02/16/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-28
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	46865	02/21/23 14:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46927	02/22/23 14:23	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/22/23 17:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46875	02/21/23 14:51	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46831	02/22/23 00:18	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	46722	02/20/23 13:10	KS	EET MID
Soluble	Analysis	300.0		1			47126	02/24/23 05:50	CH	EET MID

Client Sample ID: BH-29
Date Collected: 02/16/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-29
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	46865	02/21/23 14:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46927	02/22/23 15:46	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/22/23 17:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46875	02/21/23 14:51	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46831	02/22/23 00:40	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46722	02/20/23 13:10	KS	EET MID
Soluble	Analysis	300.0		1			47126	02/24/23 05:56	CH	EET MID

Client Sample ID: BH-30
Date Collected: 02/16/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-30
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	46865	02/21/23 14:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46927	02/22/23 16:07	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/22/23 17:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46875	02/21/23 14:51	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46831	02/22/23 01:02	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46722	02/20/23 13:10	KS	EET MID
Soluble	Analysis	300.0		5			47126	02/24/23 06:02	CH	EET MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-31

Lab Sample ID: 880-24905-31

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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	46865	02/21/23 14:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46927	02/22/23 16:27	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/22/23 17:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46875	02/21/23 14:51	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46831	02/22/23 01:25	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46722	02/20/23 13:10	KS	EET MID
Soluble	Analysis	300.0		1			47126	02/24/23 06:09	CH	EET MID

Client Sample ID: BH-32

Lab Sample ID: 880-24905-32

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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	46865	02/21/23 14:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46927	02/22/23 16:58	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/22/23 17:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46875	02/21/23 14:51	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46831	02/22/23 01:47	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	46722	02/20/23 13:10	KS	EET MID
Soluble	Analysis	300.0		1			47126	02/24/23 06:27	CH	EET MID

Client Sample ID: BH-33

Lab Sample ID: 880-24905-33

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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	46865	02/21/23 14:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46927	02/22/23 17:18	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/22/23 17:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46875	02/21/23 14:51	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46831	02/22/23 02:10	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46722	02/20/23 13:10	KS	EET MID
Soluble	Analysis	300.0		1			47126	02/24/23 06:33	CH	EET MID

Client Sample ID: BH-34

Lab Sample ID: 880-24905-34

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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	46948	02/22/23 14:24	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46925	02/23/23 05:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:26	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: BH-34

Lab Sample ID: 880-24905-34

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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			46958	02/22/23 16:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46875	02/21/23 14:51	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46831	02/22/23 02:31	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46722	02/20/23 13:10	KS	EET MID
Soluble	Analysis	300.0		1			47126	02/24/23 06:52	CH	EET MID

Client Sample ID: BH-35

Lab Sample ID: 880-24905-35

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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	46865	02/21/23 14:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46927	02/22/23 17:59	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46875	02/21/23 14:51	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46831	02/22/23 02:53	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	46722	02/20/23 13:10	KS	EET MID
Soluble	Analysis	300.0		1			47126	02/24/23 06:58	CH	EET MID

Client Sample ID: BH-36

Lab Sample ID: 880-24905-36

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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	46865	02/21/23 14:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46927	02/22/23 18:20	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46875	02/21/23 14:51	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46831	02/22/23 03:16	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46722	02/20/23 13:10	KS	EET MID
Soluble	Analysis	300.0		5			47126	02/24/23 07:04	CH	EET MID

Client Sample ID: SW-1

Lab Sample ID: 880-24905-37

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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	46865	02/21/23 14:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46927	02/22/23 18:40	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46875	02/21/23 14:51	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46831	02/22/23 03:38	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-1

Date Collected: 02/16/23 00:00

Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-37

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			5.04 g	50 mL	46722	02/20/23 13:10	KS	EET MID
Soluble	Analysis	300.0		1			47126	02/24/23 07:10	CH	EET MID

Client Sample ID: SW-2

Date Collected: 02/16/23 00:00

Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-38

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	46865	02/21/23 14:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46927	02/22/23 19:01	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46875	02/21/23 14:51	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46831	02/22/23 04:01	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46722	02/20/23 13:10	KS	EET MID
Soluble	Analysis	300.0		1			47126	02/24/23 07:16	CH	EET MID

Client Sample ID: SW-3

Date Collected: 02/16/23 00:00

Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-39

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	46866	02/21/23 14:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46925	02/22/23 12:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46875	02/21/23 14:51	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46831	02/22/23 04:23	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	46722	02/20/23 13:10	KS	EET MID
Soluble	Analysis	300.0		1			47126	02/24/23 07:22	CH	EET MID

Client Sample ID: SW-4

Date Collected: 02/16/23 00:00

Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-40

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	46866	02/21/23 14:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46925	02/22/23 12:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46875	02/21/23 14:51	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46831	02/22/23 04:46	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46722	02/20/23 13:10	KS	EET MID
Soluble	Analysis	300.0		1			47126	02/24/23 07:29	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-5
Date Collected: 02/16/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-41
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	46866	02/21/23 14:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46925	02/22/23 12:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46837	02/21/23 10:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/22/23 22:07	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46723	02/20/23 13:11	KS	EET MID
Soluble	Analysis	300.0		1			47127	02/24/23 08:46	CH	EET MID

Client Sample ID: SW-6
Date Collected: 02/16/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-42
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	46866	02/21/23 14:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46925	02/22/23 13:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46837	02/21/23 10:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/22/23 23:11	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46723	02/20/23 13:11	KS	EET MID
Soluble	Analysis	300.0		1			47127	02/24/23 09:04	CH	EET MID

Client Sample ID: SW-7
Date Collected: 02/16/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-43
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	46866	02/21/23 14:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46925	02/22/23 13:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46837	02/21/23 10:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/22/23 23:32	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	46723	02/20/23 13:11	KS	EET MID
Soluble	Analysis	300.0		1			47127	02/24/23 09:10	CH	EET MID

Client Sample ID: SW-8
Date Collected: 02/16/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-44
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	46866	02/21/23 14:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46925	02/22/23 14:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:26	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-8

Lab Sample ID: 880-24905-44

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46837	02/21/23 10:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/22/23 23:54	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	46723	02/20/23 13:11	KS	EET MID
Soluble	Analysis	300.0		1			47127	02/24/23 09:17	CH	EET MID

Client Sample ID: SW-9

Lab Sample ID: 880-24905-45

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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	46866	02/21/23 14:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46925	02/22/23 14:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46837	02/21/23 10:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/23/23 00:15	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46723	02/20/23 13:11	KS	EET MID
Soluble	Analysis	300.0		1			47127	02/24/23 09:23	CH	EET MID

Client Sample ID: SW-10

Lab Sample ID: 880-24905-46

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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	46866	02/21/23 14:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46925	02/22/23 15:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46837	02/21/23 10:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/23/23 00:36	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46723	02/20/23 13:11	KS	EET MID
Soluble	Analysis	300.0		1			47127	02/24/23 09:41	CH	EET MID

Client Sample ID: SW-11

Lab Sample ID: 880-24905-47

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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	46866	02/21/23 14:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46925	02/22/23 15:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46837	02/21/23 10:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/23/23 00:58	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-11**Lab Sample ID: 880-24905-47****Date Collected: 02/16/23 00:00****Matrix: Solid****Date Received: 02/17/23 16:33**

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	46723	02/20/23 13:11	KS	EET MID
Soluble	Analysis	300.0		1			47127	02/24/23 09:47	CH	EET MID

Client Sample ID: SW-12**Lab Sample ID: 880-24905-48****Date Collected: 02/16/23 00:00****Matrix: Solid****Date Received: 02/17/23 16:33**

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	46866	02/21/23 14:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46925	02/22/23 16:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46837	02/21/23 10:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/23/23 01:20	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	46723	02/20/23 13:11	KS	EET MID
Soluble	Analysis	300.0		1			47127	02/24/23 09:53	CH	EET MID

Client Sample ID: SW-13**Lab Sample ID: 880-24905-49****Date Collected: 02/16/23 00:00****Matrix: Solid****Date Received: 02/17/23 16:33**

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	46866	02/21/23 14:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46925	02/22/23 17:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46837	02/21/23 10:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/23/23 01:41	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	46723	02/20/23 13:11	KS	EET MID
Soluble	Analysis	300.0		1			47127	02/24/23 10:00	CH	EET MID

Client Sample ID: SW-14**Lab Sample ID: 880-24905-50****Date Collected: 02/16/23 00:00****Matrix: Solid****Date Received: 02/17/23 16:33**

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	46866	02/21/23 14:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46925	02/22/23 18:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46837	02/21/23 10:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/23/23 02:02	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	46723	02/20/23 13:11	KS	EET MID
Soluble	Analysis	300.0		1			47127	02/24/23 10:06	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-15
Date Collected: 02/16/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-51
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	46866	02/21/23 14:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46925	02/22/23 18:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46837	02/21/23 10:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/23/23 02:45	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46723	02/20/23 13:11	KS	EET MID
Soluble	Analysis	300.0		1			47127	02/24/23 10:12	CH	EET MID

Client Sample ID: SW-16
Date Collected: 02/16/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-52
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	46866	02/21/23 14:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46925	02/22/23 19:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46837	02/21/23 10:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/23/23 03:06	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46723	02/20/23 13:11	KS	EET MID
Soluble	Analysis	300.0		1			47127	02/24/23 10:30	CH	EET MID

Client Sample ID: SW-17
Date Collected: 02/16/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-53
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	46866	02/21/23 14:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46925	02/22/23 19:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46837	02/21/23 10:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/23/23 03:28	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	46723	02/20/23 13:11	KS	EET MID
Soluble	Analysis	300.0		1			47127	02/24/23 10:37	CH	EET MID

Client Sample ID: SW-18
Date Collected: 02/16/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-54
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	46866	02/21/23 14:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46925	02/22/23 20:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:26	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-18

Lab Sample ID: 880-24905-54

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46837	02/21/23 10:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/23/23 03:49	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	46723	02/20/23 13:11	KS	EET MID
Soluble	Analysis	300.0		1			47127	02/24/23 10:55	CH	EET MID

Client Sample ID: SW-19

Lab Sample ID: 880-24905-55

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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	46866	02/21/23 14:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46925	02/22/23 20:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46837	02/21/23 10:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/23/23 04:10	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	46723	02/20/23 13:11	KS	EET MID
Soluble	Analysis	300.0		1			47127	02/24/23 11:01	CH	EET MID

Client Sample ID: SW-20

Lab Sample ID: 880-24905-56

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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	46866	02/21/23 14:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46925	02/22/23 20:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46837	02/21/23 10:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/23/23 04:32	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46723	02/20/23 13:11	KS	EET MID
Soluble	Analysis	300.0		1			47127	02/24/23 11:08	CH	EET MID

Client Sample ID: SW-21

Lab Sample ID: 880-24905-57

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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	46866	02/21/23 14:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46925	02/22/23 21:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46837	02/21/23 10:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/23/23 04:53	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-21
Date Collected: 02/16/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-57
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			4.96 g	50 mL	46723	02/20/23 13:11	KS	EET MID
Soluble	Analysis	300.0		1			47127	02/24/23 11:14	CH	EET MID

Client Sample ID: SW-22
Date Collected: 02/16/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-58
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	46866	02/21/23 14:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46925	02/22/23 21:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46837	02/21/23 10:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/23/23 05:15	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	46723	02/20/23 13:11	KS	EET MID
Soluble	Analysis	300.0		1			47127	02/24/23 11:20	CH	EET MID

Client Sample ID: SW-23
Date Collected: 02/16/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-59
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	46868	02/21/23 14:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46928	02/22/23 12:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46837	02/21/23 10:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/23/23 05:36	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	46723	02/20/23 13:11	KS	EET MID
Soluble	Analysis	300.0		1			47127	02/24/23 11:26	CH	EET MID

Client Sample ID: SW-24
Date Collected: 02/16/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-60
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	46868	02/21/23 14:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46928	02/22/23 12:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46837	02/21/23 10:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/23/23 05:58	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	46723	02/20/23 13:11	KS	EET MID
Soluble	Analysis	300.0		1			47127	02/24/23 11:32	CH	EET MID

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-25
Date Collected: 02/16/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-61
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	46868	02/21/23 14:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46928	02/22/23 13:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46838	02/21/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/22/23 12:17	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	46724	02/20/23 13:12	KS	EET MID
Soluble	Analysis	300.0		1			47128	02/24/23 08:40	CH	EET MID

Client Sample ID: SW-26
Date Collected: 02/16/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-62
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	46868	02/21/23 14:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46928	02/22/23 17:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46838	02/21/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/22/23 13:22	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	46724	02/20/23 13:12	KS	EET MID
Soluble	Analysis	300.0		1			47128	02/24/23 08:54	CH	EET MID

Client Sample ID: SW-27
Date Collected: 02/16/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-63
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	46868	02/21/23 14:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46928	02/22/23 17:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46838	02/21/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/22/23 13:44	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	46724	02/20/23 13:12	KS	EET MID
Soluble	Analysis	300.0		10			47128	02/24/23 08:59	CH	EET MID

Client Sample ID: SW-28
Date Collected: 02/16/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-64
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	46868	02/21/23 14:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46928	02/22/23 18:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:18	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-28

Lab Sample ID: 880-24905-64

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46838	02/21/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/22/23 14:06	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	46724	02/20/23 13:12	KS	EET MID
Soluble	Analysis	300.0		10			47128	02/24/23 09:03	CH	EET MID

Client Sample ID: SW-29

Lab Sample ID: 880-24905-65

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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	46868	02/21/23 14:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46928	02/22/23 18:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46838	02/21/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/22/23 14:27	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	46724	02/20/23 13:12	KS	EET MID
Soluble	Analysis	300.0		1			47128	02/24/23 09:08	CH	EET MID

Client Sample ID: SW-30

Lab Sample ID: 880-24905-66

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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	46868	02/21/23 14:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46928	02/22/23 18:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46838	02/21/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/22/23 14:50	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46724	02/20/23 13:12	KS	EET MID
Soluble	Analysis	300.0		5			47128	02/24/23 09:22	CH	EET MID

Client Sample ID: SW-31

Lab Sample ID: 880-24905-67

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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	46868	02/21/23 14:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46928	02/22/23 19:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46838	02/21/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/22/23 15:12	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-31

Lab Sample ID: 880-24905-67

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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	46724	02/20/23 13:12	KS	EET MID
Soluble	Analysis	300.0		5			47128	02/24/23 09:27	CH	EET MID

Client Sample ID: SW-32

Lab Sample ID: 880-24905-68

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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	46868	02/21/23 14:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46928	02/22/23 19:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46838	02/21/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/22/23 15:34	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	46724	02/20/23 13:12	KS	EET MID
Soluble	Analysis	300.0		1			47128	02/24/23 09:31	CH	EET MID

Client Sample ID: SW-33

Lab Sample ID: 880-24905-69

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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	46868	02/21/23 14:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46928	02/22/23 21:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46838	02/21/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/22/23 15:56	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	46724	02/20/23 13:12	KS	EET MID
Soluble	Analysis	300.0		10			47128	02/24/23 09:36	CH	EET MID

Client Sample ID: SW-34

Lab Sample ID: 880-24905-70

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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	46868	02/21/23 14:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46928	02/22/23 21:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46838	02/21/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/22/23 16:18	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46724	02/20/23 13:12	KS	EET MID
Soluble	Analysis	300.0		1			47128	02/24/23 09:41	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-35**Lab Sample ID: 880-24905-71****Date Collected: 02/16/23 00:00****Matrix: Solid****Date Received: 02/17/23 16:33**

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	46868	02/21/23 14:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46928	02/22/23 21:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46838	02/21/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/22/23 17:03	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	46724	02/20/23 13:12	KS	EET MID
Soluble	Analysis	300.0		20			47128	02/24/23 09:45	CH	EET MID

Client Sample ID: SW-36**Lab Sample ID: 880-24905-72****Date Collected: 02/16/23 00:00****Matrix: Solid****Date Received: 02/17/23 16:33**

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	46868	02/21/23 14:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46928	02/22/23 22:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46838	02/21/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/22/23 17:26	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	46724	02/20/23 13:12	KS	EET MID
Soluble	Analysis	300.0		1			47128	02/24/23 09:59	CH	EET MID

Client Sample ID: SW-37**Lab Sample ID: 880-24905-73****Date Collected: 02/16/23 00:00****Matrix: Solid****Date Received: 02/17/23 16:33**

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	46868	02/21/23 14:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46928	02/22/23 22:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46838	02/21/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/22/23 17:48	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46724	02/20/23 13:12	KS	EET MID
Soluble	Analysis	300.0		1			47128	02/24/23 10:04	CH	EET MID

Client Sample ID: SW-38**Lab Sample ID: 880-24905-74****Date Collected: 02/16/23 00:00****Matrix: Solid****Date Received: 02/17/23 16:33**

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	46868	02/21/23 14:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46928	02/22/23 22:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:18	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-38**Lab Sample ID: 880-24905-74****Date Collected: 02/16/23 00:00****Matrix: Solid****Date Received: 02/17/23 16:33**

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			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46838	02/21/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/22/23 18:11	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	46724	02/20/23 13:12	KS	EET MID
Soluble	Analysis	300.0		5			47128	02/24/23 10:18	CH	EET MID

Client Sample ID: SW-39**Lab Sample ID: 880-24905-75****Date Collected: 02/16/23 00:00****Matrix: Solid****Date Received: 02/17/23 16:33**

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	46868	02/21/23 14:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46928	02/22/23 23:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46838	02/21/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/22/23 18:33	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46724	02/20/23 13:12	KS	EET MID
Soluble	Analysis	300.0		5			47128	02/24/23 10:23	CH	EET MID

Client Sample ID: SW-40**Lab Sample ID: 880-24905-76****Date Collected: 02/16/23 00:00****Matrix: Solid****Date Received: 02/17/23 16:33**

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	46868	02/21/23 14:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46928	02/22/23 23:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46838	02/21/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/22/23 18:55	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46724	02/20/23 13:12	KS	EET MID
Soluble	Analysis	300.0		10			47128	02/24/23 10:27	CH	EET MID

Client Sample ID: SW-41**Lab Sample ID: 880-24905-77****Date Collected: 02/16/23 00:00****Matrix: Solid****Date Received: 02/17/23 16:33**

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	46868	02/21/23 14:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46928	02/22/23 23:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	46838	02/21/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/22/23 19:16	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-41

Lab Sample ID: 880-24905-77

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	46724	02/20/23 13:12	KS	EET MID
Soluble	Analysis	300.0		10			47128	02/24/23 10:32	CH	EET MID

Client Sample ID: SW-42

Lab Sample ID: 880-24905-78

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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	46868	02/21/23 14:34	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46928	02/23/23 00:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46838	02/21/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/22/23 19:38	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	46724	02/20/23 13:12	KS	EET MID
Soluble	Analysis	300.0		1			47128	02/24/23 10:37	CH	EET MID

Client Sample ID: SW-43

Lab Sample ID: 880-24905-79

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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	46933	02/22/23 09:33	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46926	02/23/23 02:10	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/23/23 11:44	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46838	02/21/23 10:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46919	02/22/23 20:00	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	46724	02/20/23 13:12	KS	EET MID
Soluble	Analysis	300.0		1			47128	02/24/23 10:41	CH	EET MID

Client Sample ID: SW-44

Lab Sample ID: 880-24905-80

Date Collected: 02/16/23 00:00

Matrix: Solid

Date Received: 02/17/23 16:33

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	46933	02/22/23 09:33	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46926	02/23/23 02:30	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/27/23 12:30	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47228	02/25/23 08:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47221	02/25/23 23:06	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	46724	02/20/23 13:12	KS	EET MID
Soluble	Analysis	300.0		5			47128	02/24/23 10:46	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Client Sample ID: SW-45
Date Collected: 02/16/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-81
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	46933	02/22/23 09:33	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46926	02/23/23 02:50	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46823	02/21/23 08:38	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46829	02/21/23 16:38	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46719	02/20/23 13:06	KS	EET MID
Soluble	Analysis	300.0		10			47190	02/24/23 13:06	CH	EET MID

Client Sample ID: SW-46
Date Collected: 02/16/23 00:00
Date Received: 02/17/23 16:33

Lab Sample ID: 880-24905-82
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	46933	02/22/23 09:33	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46926	02/23/23 07:03	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46947	02/23/23 12:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46958	02/22/23 16:01	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46823	02/21/23 09:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46829	02/21/23 17:00	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	46719	02/20/23 13:06	KS	EET MID
Soluble	Analysis	300.0		1			47190	02/24/23 13:11	CH	EET MID

Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

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	T104704400-22-25	06-30-23

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

Method Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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:

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

Sample Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-24905-1	BH-1	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-2	BH-2	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-3	BH-3	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-4	BH-4	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-5	BH-5	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-6	BH-6	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-7	BH-7	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-8	BH-8	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-9	BH-9	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-10	BH-10	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-11	BH-11	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-12	BH-12	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-13	BH-13	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-14	BH-14	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-15	BH-15	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-16	BH-16	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-17	BH-17	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-18	BH-18	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-19	BH-19	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-20	BH-20	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-21	BH-21	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-22	BH-22	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-23	BH-23	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-24	BH-24	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-25	BH-25	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-26	BH-26	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-27	BH-27	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-28	BH-28	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-29	BH-29	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-30	BH-30	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-31	BH-31	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-32	BH-32	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-33	BH-33	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-34	BH-34	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-35	BH-35	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-36	BH-36	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-37	SW-1	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-38	SW-2	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-39	SW-3	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-40	SW-4	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-41	SW-5	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-42	SW-6	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-43	SW-7	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-44	SW-8	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-45	SW-9	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-46	SW-10	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-47	SW-11	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-48	SW-12	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-49	SW-13	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-50	SW-14	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-51	SW-15	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-52	SW-16	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-53	SW-17	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-54	SW-18	Solid	02/16/23 00:00	02/17/23 16:33

Sample Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-24905-1
SDG: 12592305

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-24905-55	SW-19	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-56	SW-20	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-57	SW-21	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-58	SW-22	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-59	SW-23	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-60	SW-24	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-61	SW-25	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-62	SW-26	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-63	SW-27	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-64	SW-28	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-65	SW-29	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-66	SW-30	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-67	SW-31	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-68	SW-32	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-69	SW-33	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-70	SW-34	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-71	SW-35	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-72	SW-36	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-73	SW-37	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-74	SW-38	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-75	SW-39	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-76	SW-40	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-77	SW-41	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-78	SW-42	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-79	SW-43	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-80	SW-44	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-81	SW-45	Solid	02/16/23 00:00	02/17/23 16:33
880-24905-82	SW-46	Solid	02/16/23 00:00	02/17/23 16:33



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:

24905

www.xenco.com Page 1 of

Project Manager:	Stephen Ansong-Asante	Bill to (if different)	
Company Name:	GHD	Company Name:	
Address:	6121 Indian School Rd NE St. 200	Address:	
City, State ZIP:	Albuquerque, NM 87110	City, State ZIP:	
Phone:	(281) 386-7158	Email:	Stephen.Asante-ansong@ghd.com

Work Order Comments	
Program: UST/PST	PRP
State of Project	Brownfields
Reporting Level II	Level III
Deliverables EDD	ADAPT
	Other

Project Name:	McElvian	Turn Around	Pres. Code	ANALYSIS REQUEST		Preservative Codes
Project Number:	12603583	☒ Routine ☐ Rush				None NO DI Water H ₂ O
Project Location:	Artesia, NM	Due Date:	2/24/2023			Cool Cool MeOH Me
Sample Name:	Daniel Sparks	TAT starts the day received by the lab if received by 4:30pm				HCL HC HNO ₃ HN
PO #:						H ₂ SO ₄ H ₂ NaOH Na
SAMPLE RECEIPT	Temp Blank: Yes No	Yes No	Wet Ice: Yes No			H ₃ PO ₄ HP
Samples Received Intact:	Yes No	Thermometer ID:				NaHSO ₄ NABIS
Coder Custody Seals:	Yes No	Correction Factor:				Na ₂ S ₂ O ₃ NaSO ₃
Sample Custody Seals:	Yes No	Temperature Reading:				Zn Acetate+NaOH Zn
Total Containers:	Yes No	Corrected Temperature:				NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	CHLORIDES (EPA 300.0)	TPH (8015)	BTEX (8021)	Sample Comments
BH-1	SO	2/16/2023			Comp 1	X	X	X		Incident ID
BH-2	SO	2/16/2023			Comp 1	X	X	X		
BH-3	SO	2/16/2023			Comp 1	X	X	X		Cost Center
BH-4	SO	2/16/2023			Comp 1	X	X	X		
BH-5	SO	2/16/2023			Comp 1	X	X	X		A/E
BH-6	SO	2/16/2023			Comp 1	X	X	X		
BH-7	SO	2/16/2023			Comp 1	X	X	X		
BH-8	SO	2/16/2023			Comp 1	X	X	X		
BH-9	SO	2/16/2023			Comp 1	X	X	X		
BH-10	SO	2/16/2023			Comp 1	X	X	X		

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 SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed: TCIP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 245 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1. <i>D Sparks</i>	<i>[Signature]</i>	2-17-23 4:25			2
3					4
5					6



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:

24965

www.xenco.com Page 2 of

Project Manager	J T Murrey	Bill to: (if different)	
Company Name	GHD	Company Name	
Address	6121 Indian School Rd NE St. 200	Address	
City, State ZIP	Albuquerque, NM 87110	City, State ZIP	
Phone	(281)386-7158	Email	Stephen Asante-ansong@ghd.com

Program UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project	
Reporting Level I ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	Deliverables EDD ☐ ADAPT ☐ Other

Project Name	McElvain	Turn Around	☒ Routine ☐ Rush	Pres. Code		ANALYSIS REQUEST														Preservative Codes		
Project Number	12603583																			None NO	DI Water H ₂ O	
Project Location	Artesia, NM	Due Date	2/24/2023																	Cool Cool	MeOH Me	
Sampler's Name	Daniel Sparks	TAT starts the day received by the lab if received by 4:30pm																		HCL HC	HNO ₃ HN	
PO #																				H ₂ SO ₄ H ₂	NaOH Na	
SAMPLE RECEIPT		Temp Blank	Yes No	Wet Ice	Yes No															H ₃ PO ₄ HP		
Samples Received intact		Yes No	Thermometer ID																	NaHSO ₄ NABIS		
Cooler Custody Seals		Yes No	Correction Factor																	Na ₂ S ₂ O ₃ NaSO ₃		
Sample Custody Seals		Yes No	Temperature Reading																	Zn Acetate+NaOH Zn		
Total Containers		Yes No	Corrected Temperature																	NaOH+Ascorbic Acid SANC		
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grav/Comp	# of Cont	CHLORIDES (EPA 300.0)														Sample Comments	
BH-11	SO	2/16/2023			Comp 1	1	X	X	X	X								Incident ID				
BH-12	SO	2/16/2023			Comp 1	1	X	X	X	X												
BH-13	SO	2/16/2023			Comp 1	1	X	X	X	X								Cost Center				
BH-14	SO	2/16/2023			Comp 1	1	X	X	X	X												
BH-15	SO	2/16/2023			Comp 1	1	X	X	X	X								A/E				
BH-16	SO	2/16/2023			Comp 1	1	X	X	X	X												
BH-17	SO	2/16/2023			Comp 1	1	X	X	X	X												
BH-18	SO	2/16/2023			Comp 1	1	X	X	X	X												
BH-19	SO	2/16/2023			Comp 1	1	X	X	X	X												
BH-20	SO	2/16/2023			Comp 1	1	X	X	X	X												

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 SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 245 1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 J. T. Murrey	[Signature]	2-17-23-4:33			
3					
5					



Environment Testing
Xenoco

Houston, TX (281) 240-4200 Dallas TX (214) 902-0300
Midland TX (432) 704-5440 San Antonio, TX (210) 509-3333
EL Paso TX (915) 585-3443 Lubbock TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Chain of Custody

Work Order No

24905

Page 1 of 1

Project Manager:	J T Murrey	Bill to: (if different)	
Company Name:	GHD	Company Name:	
Address:	6121 Indian School Rd NE St. 200	Address:	
City, State ZIP:	Albuquerque, NM 87110	City, State ZIP:	
Phone:	(281)386-7158	Email:	Stephen Asante-ansong@ghd.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project	
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables EDD ☐ ADAPT ☐ Other: _____	

Project Name:		MCE/ivain		Turn Around			
Project Number:		12603583		☒ Routine ☐ Rush			
Project Location:		Artesia, NM		Due Date:		2/24/2023	
Sampler's Name:		Daniel Sparks		TAT starts the day received by the lab if received by 4:30pm			
PO #:							
SAMPLE RECEIPT		Temp Blank:	Yes	No	Wet Ice:	Yes	No
Samples Received Intact:		Yes	No	Thermometer ID:			
Cooler Custody Seals:		Yes	No	N/A	Correction Factor:		
Sample Custody Seals:		Yes	No	N/A	Temperature Reading:		
Total Containers:				Corrected Temperature:			
Parameters							
IDES (EPA 300.0)							
115)							
3021							
ANALYSIS REQUEST							
Preservative Codes							
None		NO		DI Water		H ₂ O	
Cool		Cool		MeOH		Me	
HCL		HC		HNO ₃		HN	
H ₂ SO ₄		H ₂		NaOH		Na	
H ₃ PO ₄		HP					
NaHSO ₄		NABIS					
Na ₂ S ₂ O ₃		NaSO ₃					
Zn Acetate		+NaOH		Zn			
NaOH+Ascorbic Acid		SAPC					

[illegible]

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 ₂	Na	Sr	Ti	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP/SPLP	6010	8RCRA	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U					Hg	1631 / 245	1 / 7470	1 / 7471					

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>D. [Signature]</i>	<i>[Signature]</i>	2-17-22 4:30	2		
3			4		
5			6		



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Environmental Testing
Xenoco

Chain of Custody

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Midland TX (432) 704-5440 San Antonio TX (210) 509-3333
El Paso TX (915) 585-3443 Lubbock TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Work Order No:

24995

www.xenco.com Page 1 of 1

Project Manager:	J T Murrey	Bill to: (if different)	
Company Name:	GHD	Company Name:	
Address:	6121 Indian School Rd NE St. 200	Address:	
City, State ZIP:	Albuquerque, NM 87110	City, State ZIP:	
Phone:	(281)386-7158	Email:	Stephen.Asante-ansong@ghd.com

Work Order Comments	
Program	USTR/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting Level	I ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables	EDD ☐ ADaPT ☐ Other:

Project Name:				MCEI/vain				Turn Around			
Project Number:				12603583				☒ Routine ☐ Rush			
Project Location:				Artesia, NM				Due Date: 2/24/2023			
Sampler's Name:				Daniel Sparks				TAT starts the day received by the lab if received by 4:30pm			
PO #:											
SAMPLE RECEIPT				Temp Blank:		Yes No		Well Ice:		Yes No	
Samples Received Intact:				Yes No		Thermometer ID:					
Cooler Custody Seals:				Yes No		Correction Factor:					
Sample Custody Seals:				Yes No		N/A		Temperature Reading:			
Total Containers:						Corrected Temperature:					
Parameters											
IDES (EPA 300.0)											
115)											
021											
ANALYSIS REQUEST											
Pres. Code											
Preservative Codes											
None NO DI Water H ₂ O											
Cool Cool MeOH Me											
HCL HC HNO ₃ HN											
H ₂ SO ₄ H ₂ NaOH Na											
H ₃ PO ₄ HP											
NaHSO ₄ NABIS											
Na ₂ S ₂ O ₃ NaSO ₃											
Zn Acetate+NaOH Zn											
NaOH+Ascorbic Acid SAPC											

[illegible][illegible]

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Relinquished by: (Signature)	Receiver by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>D. J. Jones</i>		2-17-23 4:23	2		
3			4		
5			6		



Environmental Test Labs
Xenco

Houston, TX (281) 240-4200 Dallas TX (214) 902-0300
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El Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Chain of Custody

Work Order No.:

24965

www.xenco.com Page 1 of 1

Project Manager:	J T Murrey	Bill to, (if different)	
Company Name:	GHD	Company Name:	
Address:	6121 Indian School Rd NE St. 200	Address:	
City, State ZIP:	Albuquerque, NM 87110	City, State ZIP:	
Phone:	(281)366-7158	Email:	Stephen Asante-ansong@ghd.com

Work Order Comments

Program UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project

Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables EDD ☐ ADAPT ☐ Other

[illegible]

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont									Sample Comments	
							CHLOR	TPH (80)	BTEX (8)							
SW-5	SO	2/16/2023			Comp 1	X	X	X	X							Incident ID
SW-6	SO	2/16/2023			Comp 1	X	X	X	X							
SW-7	SO	2/16/2023			Comp 1	X	X	X	X							Cost Center
SW-8	SO	2/16/2023			Comp 1	X	X	X	X							
SW-9	SO	2/16/2023			Comp 1	X	X	X	X							A/E
SW-10	SO	2/16/2023			Comp 1	X	X	X	X							
SW-11	SO	2/16/2023			Comp 1	X	X	X	X							
SW-12	SO	2/16/2023			Comp 1	X	X	X	X							
SW-13	SO	2/16/2023			Comp 1	X	X	X	X							
SW-14	SO	2/16/2023			Comp 1	X	X	X	X							

Total	200.7 / 6010	200.8 / 6020:	
Circle Method(s) and Metal(s) to be analyzed	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 ₂ Na Sr Ti Sn U V Zn
	TCLP / SPLP 6010	8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>D. Smith</i>		2-17-23 4:35	2		
3			4		
5			6		



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**Environmental Test
Xenon**

Houston TX (281) 240-4200 Dallas TX (214) 902-0300
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Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Chain of Custody

Work Order No:

24905

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Project Manager:	J T Murrey	Bill to: (if different)	
Company Name:	GHD	Company Name:	
Address:	6121 Indian School Rd NE St. 200	Address:	
City, State ZIP:	Albuquerque, NM 87110	City, State ZIP:	
Phone:	(281)386-7158	Email:	Stephen.Asante-ansong@ghd.com

Work Order Comments

Program UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project

Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables EDD ☐ ADAPT ☐ Other

Project Name:				McIlvain				Turn Around				Pres. Code				ANALYSIS REQUEST				Preservative Codes																											
Project Number:				12603563'				☒ Routine ☐ Rush								None NO				DI Water- H ₂ O																											
Project Location:				Artesia, NM				Due Date:				2/24/2023				Cool Cool				MeOH Me																											
Sampler's Name:				Daniel Sparks				TAT starts the day received by the lab if received by 4 30pm								HCL HC				HNO ₃ HN																											
PO #:																H ₂ SO ₄ H ₂				NaOH Na																											
SAMPLE RECEIPT				Temp Blank:		Yes No		Wet Ice:		Yes No						H ₃ PO ₄ HP																															
Samples Received intact:				Yes No				Thermometer ID:								NaHSO ₄ NABIS																															
Cooler Custody Seals:				Yes No N/A				Correction Factor:								Na ₂ S ₂ O ₃ NaSO ₃																															
Sample Custody Seals:				Yes No N/A				Temperature Reading:								Zn Acetate+NaOH Zn																															
Total Containers:								Corrected Temperature:								NaOH+Ascorbic Acid SAPC																															
Parameters												DES (EPA 300 0)												15)												0201											

[illegible]

Total 200.7 / 6010 200.8 / 6020:

8RCRA 13

kas 11

Sb As Ba

Me B Cd C

Cr Co Cu

—e Pb Mo

In Mo Ni h

See An SIC

Na Sr Ti :

UV Zn

11

Circle Method(s) and Metal(s) to be analyzed

TCLP / S

08RC

A Sb As E

Be Cd Cr

Co Cu Pb

n Mo Ni S

Aq TI U

Hg 16:

/245 1/74

0 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>D. [Signature]</i>	<i>[Signature]</i>	2-17-23 4:33	2		
3			4		
5			6		



Environment Testing
Xenoco

Chain of Custody

Houston, TX (281) 240-4200 Dallas TX (214) 902-0300
Midland TX (432) 704-5440 San Antonio TX (210) 509-3333
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Hobbs NM (575) 392 7550 Carlsbad NM (575) 988-3199

Work Order No:

24965

Page 1 of 1
www.xenco.com

Project Manager:	J T Murrey	Bill to: (if different)	
Company Name:	GHD	Company Name:	
Address:	6121 Indian School Rd NE St. 200	Address:	
City, State ZIP:	Albuquerque, NM 87110	City, State ZIP:	
Phone:	(281)386-7158	Email:	Stephen.Asante-ansong@ghd.com

Work Order Comments	
Program	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project	
Reporting Level	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables	EDD ☐ ADAPT ☐ Other ☐

ANALYSIS REQUEST										Preservative Codes		
Project Name: McElvain		Turn Around		Pres. Code						None NO		DI Water- H ₂ O
Project Number: 12603583		☒ Routine ☐ Rush								Cool Cool		MeOH Me
Project Location: Artesia, NM		Due Date: 2/24/2023								HCL HC		HNO ₃ HN
Sampler's Name: Daniel Sparks		TAT starts the day received by the lab if received by 4:30pm								H ₂ SO ₄ H ₂		NaOH Na
PO #:										H ₃ PO ₄ HP		
SAMPLE RECEIPT		Temp Blank: Yes No		Wet Ice: Yes No						NaHSO ₄ NABIS		
Samples Received Intact: Yes No		Thermometer ID: Yes No								Na ₂ S ₂ O ₃ NaSO ₃		
Cooler Custody Seals: Yes No N/A		Correction Factor: Yes No								Zn Acetate+NaOH Zn		
Sample Custody Seals: Yes No N/A		Temperature Reading: Corrected Temperature: Yes No								NaOH+Ascorbic Acid SAPC		
Total Containers:												
Sample Identification		Matrix		Date Sampled		Time Sampled		Depth		Grab/Comp		# of Cont
SW-25		SO		2/16/2023						Comp 1		1
SW-26		SO		2/16/2023						Comp 1		1
SW-27		SO		2/16/2023						Comp 1		1
SW-28		SO		2/16/2023						Comp 1		1
SW-29		SO		2/16/2023						Comp 1		1
SW-30		SO		2/16/2023						Comp 1		1
SW-31		SO		2/16/2023						Comp 1		1
SW-32		SO		2/16/2023						Comp 1		1
SW-33		SO		2/16/2023						Comp 1		1
SW-34		SO		2/16/2023						Comp 1		1
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 ₂ Na Sr Ti Sn U V Zn						
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010		8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U		Hg 1631 / 245 1 / 7470 / 7471						
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Relinquished by: (Signature)		Received by: (Signature)		Date/Time		Relinquished by: (Signature)		Received by: (Signature)		Date/Time		
1 D. Sparks		[Signature]		2-17-23 4:23		2						
3						4						
5						6						



Environment Testing
Xenco

Chain of Custody

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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:

249105

www.xenco.com Page 8 of

Project Manager:	J T Murrey	Bill to: (if different)	
Company Name:	GHD	Company Name:	
Address:	6121 Indian School Rd NE St 200	Address:	
City, State ZIP:	Albuquerque, NM 87110	City, State ZIP:	
Phone:	(281)386-7158	Email:	Stephen Asante-ansong@ghd.com

Program		UST/PT	PRP	Brownfields	RRC	Superfund
State of Project						
Reporting Level		II	III	PST/UST	TRRP	Level IV
Deliverables		EDD	ADAPT	Other		

Project Name:	McElvain	Turn Around	Pres. Code	ANALYSIS REQUEST												Preservative Codes			
Project Number:	12603363	☒ Routine ☐ Rush														None NO	DI Water H ₂ O		
Project Location:	Artesia, NM	Due Date:	2/24/2023													Cool Cool	MeOH Me		
Sampler's Name:	Daniel Sparks	TAT starts the day received by the lab if received by 4 30pm														HCL HC	HNO ₃ HN		
PO #:		Temp Blank:	Yes No	Well Ice:	Yes No											H ₂ SO ₄ H ₂	NaOH Na		
SAMPLE RECEIPT		Samples Received Intact:	Yes No	Thermometer ID:												H ₃ PO ₄ HP			
		Cooler Custody Seals:	Yes No N/A	Correction Factor:												NaHSO ₄ NABIS			
		Sample Custody Seals:	Yes No N/A	Temperature Reading:												Na ₂ S ₂ O ₃ NaSO ₃			
		Total Containers:		Corrected Temperature:												Zn Acetate+NaOH Zn			
																NaOH+Ascorbic Acid SAPC			
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	CHLORIDES (EPA 300.0)												Sample Comments
SW-35	SO	2/16/2023			Comp	1	x	x	x	x							Incident ID		
SW-36	SO	2/16/2023			Comp	1	x	x	x	x									
SW-37	SO	2/16/2023			Comp	1	x	x	x	x							Cost Center		
SW-38	SO	2/16/2023			Comp	1	x	x	x	x									
SW-39	SO	2/16/2023			Comp	1	x	x	x	x							AFE		
SW-40	SO	2/16/2023			Comp	1	x	x	x	x									
SW-41	SO	2/16/2023			Comp	1	x	x	x	x									
SW-42	SO	2/16/2023			Comp	1	x	x	x	x									
SW-43	SO	2/16/2023			Comp	1	x	x	x	x									
SW-44	SO	2/16/2023			Comp	1	x	x	x	x									

Total 200.7 / 6010 200.8 / 6020:

Circle Method(s) and Metal(s) to be analyzed: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

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
1 J. Sparks		2-17-23 4:38			2
3					4
5					6



Environment Testings

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

Chain of Custody

Work Order No:

24905

www.xenco.com Page 1 of 1

Project Manager:	J I Murrey	Bill to: (if different)	
Company Name:	GHD	Company Name:	
Address:	6121 Indian School Rd NE St. 200	Address:	
City, State ZIP	Albuquerque, NM 87110	City, State ZIP	
Phone:	(281)386-7158	Email:	Stephen Asante-ansong@ghd.com

Work Order Comments

Program UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other ☐

Project Name:				McElvain				Turn Around				Pres. Code				ANALYSIS REQUEST				Preservative Codes			
Project Number:				12603583				☒ Routine ☐ Rush												None NO DI Water H ₂ O			
Project Location:				Artesia, NM				Due Date:				2/24/2023								Cool Cool MeOH Me			
Sampler's Name:				Daniel Sparks				TAT starts the day received by the lab, if received by 4 30pm												HCL HC HNO ₃ HN H ₂ SO ₄ H ₂ NaOH Na			
PO #:																				H ₃ PO ₄ HP			
SAMPLE RECEIPT				Temp Blank:		Yes No		Wet Ice:		Yes No										NaHSO ₄ NABIS			
Samples Received intact:				Yes No				Thermometer ID:												Na ₂ S ₂ O ₃ NaSO ₃			
Cooler Custody Seals:				Yes No		N/A		Correction Factor:												Zn Acetate+NaOH Zn			
Sample Custody Seals:				Yes No		N/A		Temperature Reading:												NaOH+Ascorbic Acid SABC			
Total Containers:								Corrected Temperature:															

[illegible]

Total 200.7 / 6010 200.8 / 6020:

8RCRA	13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mn	Mg	Ni	K	Se	Ag	SiO ₂	Na	Sr	Ti	Sn	II	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 Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno 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 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 with 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 with Eurofins Xeno.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>D. Jones</i>	<i>[Signature]</i>	2-17-23 4:23	2		
3			4		
5			6		

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 880-24905-1

SDG Number: 12592305

Login Number: 24905

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Stephen Asante-Ansong
GHD Services Inc.
11200 Richmond Ave
Suite 200
Houston, Texas 77082

Generated 3/7/2023 4:47:19 PM

JOB DESCRIPTION

McElvain
SDG NUMBER 12592305

JOB NUMBER

890-4172-1

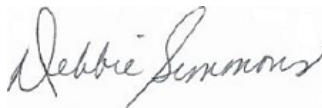
Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
3/7/2023 4:47:19 PM

Authorized for release by
Debbie Simmons, Project Manager
Debbie.Simmons@et.eurofinsus.com
(832)986-6768

Client: GHD Services Inc.
Project/Site: McElvain

Laboratory Job ID: 890-4172-1
SDG: 12592305

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high 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
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.
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: McElvain

Job ID: 890-4172-1
SDG: 12592305

Job ID: 890-4172-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4172-1

Comments

No additional comments.

Receipt

The samples were received on 2/22/2023 1:18 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 4.6° C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW-47 (890-4172-1), SW-48 (890-4172-2), SW-49 (890-4172-3), SW-50 (890-4172-4), SW-51 (890-4172-5), SW-52 (890-4172-6), SW-53 (890-4172-7), SW-54 (890-4172-8), SW-55 (890-4172-9), SW-56 (890-4172-10), SW-57 (890-4172-11), SW-58 (890-4172-12), SW-59 (890-4172-13), SW-60 (890-4172-14), BH-37 (890-4172-15), BH-38 (890-4172-16), BH-39 (890-4172-17), BH-40 (890-4172-18) and BH-41 (890-4172-19).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-47865 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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 surrogate recovery for the blank associated with preparation batch 880-47228 and analytical batch 880-47221 was outside the upper control limits.

Method 8015B NM: The surrogate recovery for the blank associated with preparation batch 880-47233 and analytical batch 880-47265 was outside the upper control limits.

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 880-47151 and analytical batch 880-47416 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: McElvain

Job ID: 890-4172-1
SDG: 12592305

Client Sample ID: SW-47

Lab Sample ID: 890-4172-1

Date Collected: 02/20/23 00:00

Matrix: Solid

Date Received: 02/22/23 13:18

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/23 16:02	03/03/23 13:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/23 16:02	03/03/23 13:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/23 16:02	03/03/23 13:55	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/27/23 16:02	03/03/23 13:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/23 16:02	03/03/23 13:55	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/27/23 16:02	03/03/23 13:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	02/27/23 16:02	03/03/23 13:55	1
1,4-Difluorobenzene (Surr)	100		70 - 130	02/27/23 16:02	03/03/23 13:55	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/06/23 14:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/27/23 12:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/25/23 08:55	02/26/23 05:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/25/23 08:55	02/26/23 05:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/25/23 08:55	02/26/23 05:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	02/25/23 08:55	02/26/23 05:13	1
o-Terphenyl	104		70 - 130	02/25/23 08:55	02/26/23 05:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37600	F1	253		mg/Kg			02/28/23 02:43	50

Client Sample ID: SW-48

Lab Sample ID: 890-4172-2

Date Collected: 02/20/23 00:00

Matrix: Solid

Date Received: 02/22/23 13:18

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/27/23 16:02	03/03/23 14:16	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/27/23 16:02	03/03/23 14:16	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/27/23 16:02	03/03/23 14:16	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/27/23 16:02	03/03/23 14:16	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/27/23 16:02	03/03/23 14:16	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/27/23 16:02	03/03/23 14:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	02/27/23 16:02	03/03/23 14:16	1
1,4-Difluorobenzene (Surr)	109		70 - 130	02/27/23 16:02	03/03/23 14:16	1

Eurofins Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

Client Sample ID: SW-48

Lab Sample ID: 890-4172-2

Date Collected: 02/20/23 00:00

Matrix: Solid

Date Received: 02/22/23 13:18

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/06/23 14:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/28/23 12:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/25/23 11:49	02/27/23 12:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/25/23 11:49	02/27/23 12:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/25/23 11:49	02/27/23 12:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				02/25/23 11:49	02/27/23 12:34	1
o-Terphenyl	113		70 - 130				02/25/23 11:49	02/27/23 12:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3210		50.0		mg/Kg			02/28/23 02:57	10

Client Sample ID: SW-49

Lab Sample ID: 890-4172-3

Date Collected: 02/20/23 00:00

Matrix: Solid

Date Received: 02/22/23 13:18

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/03/23 14:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/03/23 14:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/03/23 14:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/27/23 16:02	03/03/23 14:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/03/23 14:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/27/23 16:02	03/03/23 14:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				02/27/23 16:02	03/03/23 14:37	1
1,4-Difluorobenzene (Surr)	101		70 - 130				02/27/23 16:02	03/03/23 14:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/06/23 14:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/28/23 12:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/25/23 11:49	02/27/23 12:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/25/23 11:49	02/27/23 12:57	1

Eurofins Carlsbad

Client Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

Client Sample ID: SW-49

Lab Sample ID: 890-4172-3

Date Collected: 02/20/23 00:00

Matrix: Solid

Date Received: 02/22/23 13:18

Method: SW846 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)	<49.9	U	49.9		mg/Kg		02/25/23 11:49	02/27/23 12:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				02/25/23 11:49	02/27/23 12:57	1
o-Terphenyl	114		70 - 130				02/25/23 11:49	02/27/23 12:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22600		250		mg/Kg			02/28/23 03:02	50

Client Sample ID: SW-50

Lab Sample ID: 890-4172-4

Date Collected: 02/20/23 00:00

Matrix: Solid

Date Received: 02/22/23 13:18

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/23 16:02	03/03/23 14:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/23 16:02	03/03/23 14:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/23 16:02	03/03/23 14:58	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/27/23 16:02	03/03/23 14:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/23 16:02	03/03/23 14:58	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/27/23 16:02	03/03/23 14:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				02/27/23 16:02	03/03/23 14:58	1
1,4-Difluorobenzene (Surr)	111		70 - 130				02/27/23 16:02	03/03/23 14:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/06/23 14:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/28/23 12:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/25/23 11:49	02/27/23 13:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/25/23 11:49	02/27/23 13:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/25/23 11:49	02/27/23 13:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				02/25/23 11:49	02/27/23 13:20	1
o-Terphenyl	104		70 - 130				02/25/23 11:49	02/27/23 13:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17000		248		mg/Kg			02/28/23 03:06	50

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Client Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

Client Sample ID: SW-51

Lab Sample ID: 890-4172-5

Date Collected: 02/20/23 00:00

Matrix: Solid

Date Received: 02/22/23 13:18

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/27/23 16:02	03/03/23 15:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/27/23 16:02	03/03/23 15:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/27/23 16:02	03/03/23 15:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/27/23 16:02	03/03/23 15:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/27/23 16:02	03/03/23 15:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/27/23 16:02	03/03/23 15:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	02/27/23 16:02	03/03/23 15:19	1
1,4-Difluorobenzene (Surr)	109		70 - 130	02/27/23 16:02	03/03/23 15:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/06/23 14:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/28/23 12:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/25/23 11:49	02/27/23 13:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/25/23 11:49	02/27/23 13:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/25/23 11:49	02/27/23 13:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	02/25/23 11:49	02/27/23 13:42	1
o-Terphenyl	113		70 - 130	02/25/23 11:49	02/27/23 13:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17300		249		mg/Kg			02/28/23 03:11	50

Client Sample ID: SW-52

Lab Sample ID: 890-4172-6

Date Collected: 02/20/23 00:00

Matrix: Solid

Date Received: 02/22/23 13:18

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/23 16:02	03/03/23 15:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/23 16:02	03/03/23 15:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/23 16:02	03/03/23 15:39	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/27/23 16:02	03/03/23 15:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/23 16:02	03/03/23 15:39	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/27/23 16:02	03/03/23 15:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	02/27/23 16:02	03/03/23 15:39	1
1,4-Difluorobenzene (Surr)	110		70 - 130	02/27/23 16:02	03/03/23 15:39	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

Client Sample ID: SW-52

Lab Sample ID: 890-4172-6

Date Collected: 02/20/23 00:00

Matrix: Solid

Date Received: 02/22/23 13:18

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/06/23 14:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/28/23 12:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/25/23 11:49	02/27/23 14:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/25/23 11:49	02/27/23 14:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/25/23 11:49	02/27/23 14:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				02/25/23 11:49	02/27/23 14:04	1
o-Terphenyl	108		70 - 130				02/25/23 11:49	02/27/23 14:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18900		253		mg/Kg			02/28/23 03:25	50

Client Sample ID: SW-53

Lab Sample ID: 890-4172-7

Date Collected: 02/20/23 00:00

Matrix: Solid

Date Received: 02/22/23 13:18

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/06/23 12:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/06/23 12:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/06/23 12:11	1
m-Xylene & p-Xylene	<0.00398	U *	0.00398		mg/Kg		02/27/23 16:02	03/06/23 12:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/06/23 12:11	1
Xylenes, Total	<0.00398	U *	0.00398		mg/Kg		02/27/23 16:02	03/06/23 12:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				02/27/23 16:02	03/06/23 12:11	1
1,4-Difluorobenzene (Surr)	108		70 - 130				02/27/23 16:02	03/06/23 12:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/07/23 13:40	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/28/23 12:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/25/23 11:49	02/27/23 14:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/25/23 11:49	02/27/23 14:26	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

Client Sample ID: SW-53

Lab Sample ID: 890-4172-7

Date Collected: 02/20/23 00:00

Matrix: Solid

Date Received: 02/22/23 13:18

Method: SW846 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)	<50.0	U	50.0		mg/Kg		02/25/23 11:49	02/27/23 14:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				02/25/23 11:49	02/27/23 14:26	1
o-Terphenyl	113		70 - 130				02/25/23 11:49	02/27/23 14:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22700		249		mg/Kg			02/28/23 03:29	50

Client Sample ID: SW-54

Lab Sample ID: 890-4172-8

Date Collected: 02/20/23 00:00

Matrix: Solid

Date Received: 02/22/23 13:18

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/03/23 17:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/03/23 17:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/03/23 17:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/27/23 16:02	03/03/23 17:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/03/23 17:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/27/23 16:02	03/03/23 17:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				02/27/23 16:02	03/03/23 17:43	1
1,4-Difluorobenzene (Surr)	106		70 - 130				02/27/23 16:02	03/03/23 17:43	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/06/23 14:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/28/23 12:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/25/23 11:49	02/27/23 14:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/25/23 11:49	02/27/23 14:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/25/23 11:49	02/27/23 14:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				02/25/23 11:49	02/27/23 14:48	1
o-Terphenyl	122		70 - 130				02/25/23 11:49	02/27/23 14:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19700		250		mg/Kg			02/28/23 03:34	50

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Client Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

Client Sample ID: SW-55

Lab Sample ID: 890-4172-9

Date Collected: 02/20/23 00:00

Matrix: Solid

Date Received: 02/22/23 13:18

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/23 16:02	03/03/23 18:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/23 16:02	03/03/23 18:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/23 16:02	03/03/23 18:07	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/27/23 16:02	03/03/23 18:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/23 16:02	03/03/23 18:07	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/27/23 16:02	03/03/23 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	02/27/23 16:02	03/03/23 18:07	1
1,4-Difluorobenzene (Surr)	97		70 - 130	02/27/23 16:02	03/03/23 18:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/06/23 14:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/28/23 12:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/25/23 11:49	02/27/23 15:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/25/23 11:49	02/27/23 15:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/25/23 11:49	02/27/23 15:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	02/25/23 11:49	02/27/23 15:10	1
o-Terphenyl	114		70 - 130	02/25/23 11:49	02/27/23 15:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44100		248		mg/Kg			02/28/23 03:38	50

Client Sample ID: SW-56

Lab Sample ID: 890-4172-10

Date Collected: 02/20/23 00:00

Matrix: Solid

Date Received: 02/22/23 13:18

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/03/23 18:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/03/23 18:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/03/23 18:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/27/23 16:02	03/03/23 18:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/03/23 18:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/27/23 16:02	03/03/23 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	02/27/23 16:02	03/03/23 18:27	1
1,4-Difluorobenzene (Surr)	107		70 - 130	02/27/23 16:02	03/03/23 18:27	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

Client Sample ID: SW-56

Lab Sample ID: 890-4172-10

Date Collected: 02/20/23 00:00

Matrix: Solid

Date Received: 02/22/23 13:18

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/06/23 14:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/28/23 12:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/25/23 11:49	02/27/23 15:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/25/23 11:49	02/27/23 15:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/25/23 11:49	02/27/23 15:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				02/25/23 11:49	02/27/23 15:56	1
o-Terphenyl	108		70 - 130				02/25/23 11:49	02/27/23 15:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36500		248		mg/Kg			02/28/23 03:43	50

Client Sample ID: SW-57

Lab Sample ID: 890-4172-11

Date Collected: 02/20/23 00:00

Matrix: Solid

Date Received: 02/22/23 13:18

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/03/23 19:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/03/23 19:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/03/23 19:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/27/23 16:02	03/03/23 19:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/03/23 19:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/27/23 16:02	03/03/23 19:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				02/27/23 16:02	03/03/23 19:53	1
1,4-Difluorobenzene (Surr)	97		70 - 130				02/27/23 16:02	03/03/23 19:53	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/06/23 14:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/28/23 12:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/25/23 11:49	02/27/23 16:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/25/23 11:49	02/27/23 16:19	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

Client Sample ID: SW-57

Lab Sample ID: 890-4172-11

Date Collected: 02/20/23 00:00

Matrix: Solid

Date Received: 02/22/23 13:18

Method: SW846 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)	<49.9	U	49.9		mg/Kg		02/25/23 11:49	02/27/23 16:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				02/25/23 11:49	02/27/23 16:19	1
o-Terphenyl	101		70 - 130				02/25/23 11:49	02/27/23 16:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31800	F1	249		mg/Kg			02/28/23 03:48	50

Client Sample ID: SW-58

Lab Sample ID: 890-4172-12

Date Collected: 02/20/23 00:00

Matrix: Solid

Date Received: 02/22/23 13:18

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/03/23 20:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/03/23 20:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/03/23 20:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/27/23 16:02	03/03/23 20:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/03/23 20:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/27/23 16:02	03/03/23 20:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130				02/27/23 16:02	03/03/23 20:13	1
1,4-Difluorobenzene (Surr)	109		70 - 130				02/27/23 16:02	03/03/23 20:13	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/06/23 14:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/28/23 12:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/25/23 11:49	02/27/23 16:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/25/23 11:49	02/27/23 16:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/25/23 11:49	02/27/23 16:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				02/25/23 11:49	02/27/23 16:41	1
o-Terphenyl	104		70 - 130				02/25/23 11:49	02/27/23 16:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	167		25.0		mg/Kg			02/28/23 04:01	5

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Client Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

Client Sample ID: SW-59

Lab Sample ID: 890-4172-13

Date Collected: 02/20/23 00:00

Matrix: Solid

Date Received: 02/22/23 13:18

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/03/23 20:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/03/23 20:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/03/23 20:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/27/23 16:02	03/03/23 20:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/03/23 20:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/27/23 16:02	03/03/23 20:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	02/27/23 16:02	03/03/23 20:34	1
1,4-Difluorobenzene (Surr)	102		70 - 130	02/27/23 16:02	03/03/23 20:34	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/06/23 14:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/28/23 12:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/25/23 11:49	02/27/23 17:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/25/23 11:49	02/27/23 17:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/25/23 11:49	02/27/23 17:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	02/25/23 11:49	02/27/23 17:03	1
o-Terphenyl	110		70 - 130	02/25/23 11:49	02/27/23 17:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.6		4.97		mg/Kg			02/28/23 04:06	1

Client Sample ID: SW-60

Lab Sample ID: 890-4172-14

Date Collected: 02/20/23 00:00

Matrix: Solid

Date Received: 02/22/23 13:18

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/23 16:02	03/03/23 20:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/23 16:02	03/03/23 20:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/23 16:02	03/03/23 20:55	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/27/23 16:02	03/03/23 20:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/23 16:02	03/03/23 20:55	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/27/23 16:02	03/03/23 20:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	02/27/23 16:02	03/03/23 20:55	1
1,4-Difluorobenzene (Surr)	104		70 - 130	02/27/23 16:02	03/03/23 20:55	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

Client Sample ID: SW-60

Lab Sample ID: 890-4172-14

Date Collected: 02/20/23 00:00

Matrix: Solid

Date Received: 02/22/23 13:18

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/06/23 14:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/28/23 12:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/25/23 11:49	02/27/23 17:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/25/23 11:49	02/27/23 17:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/25/23 11:49	02/27/23 17:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				02/25/23 11:49	02/27/23 17:24	1
o-Terphenyl	122		70 - 130				02/25/23 11:49	02/27/23 17:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.6		5.04		mg/Kg			02/28/23 04:20	1

Client Sample ID: BH-37

Lab Sample ID: 890-4172-15

Date Collected: 02/20/23 00:00

Matrix: Solid

Date Received: 02/22/23 13:18

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/03/23 21:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/03/23 21:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/03/23 21:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/27/23 16:02	03/03/23 21:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/03/23 21:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/27/23 16:02	03/03/23 21:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				02/27/23 16:02	03/03/23 21:16	1
1,4-Difluorobenzene (Surr)	106		70 - 130				02/27/23 16:02	03/03/23 21:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/06/23 14:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/28/23 12:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/25/23 11:49	02/27/23 17:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/25/23 11:49	02/27/23 17:47	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

Client Sample ID: BH-37

Lab Sample ID: 890-4172-15

Date Collected: 02/20/23 00:00

Matrix: Solid

Date Received: 02/22/23 13:18

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/25/23 11:49	02/27/23 17:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				02/25/23 11:49	02/27/23 17:47	1
o-Terphenyl	115		70 - 130				02/25/23 11:49	02/27/23 17:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1320		25.0		mg/Kg			02/28/23 04:24	5

Client Sample ID: BH-38

Lab Sample ID: 890-4172-16

Date Collected: 02/20/23 00:00

Matrix: Solid

Date Received: 02/22/23 13:18

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/03/23 21:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/03/23 21:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/03/23 21:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/27/23 16:02	03/03/23 21:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/03/23 21:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/27/23 16:02	03/03/23 21:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				02/27/23 16:02	03/03/23 21:36	1
1,4-Difluorobenzene (Surr)	103		70 - 130				02/27/23 16:02	03/03/23 21:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/06/23 14:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/28/23 12:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/25/23 11:49	02/27/23 18:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/25/23 11:49	02/27/23 18:09	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/25/23 11:49	02/27/23 18:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				02/25/23 11:49	02/27/23 18:09	1
o-Terphenyl	121		70 - 130				02/25/23 11:49	02/27/23 18:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1590		24.8		mg/Kg			02/28/23 12:26	5

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Client Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

Client Sample ID: BH-39

Lab Sample ID: 890-4172-17

Date Collected: 02/20/23 00:00

Matrix: Solid

Date Received: 02/22/23 13:18

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/23 16:02	03/03/23 21:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/23 16:02	03/03/23 21:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/23 16:02	03/03/23 21:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/27/23 16:02	03/03/23 21:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/23 16:02	03/03/23 21:57	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/27/23 16:02	03/03/23 21:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	02/27/23 16:02	03/03/23 21:57	1
1,4-Difluorobenzene (Surr)	102		70 - 130	02/27/23 16:02	03/03/23 21:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/06/23 14:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/28/23 12:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/25/23 11:49	02/27/23 18:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/25/23 11:49	02/27/23 18:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/25/23 11:49	02/27/23 18:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	02/25/23 11:49	02/27/23 18:31	1
o-Terphenyl	112		70 - 130	02/25/23 11:49	02/27/23 18:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111		5.05		mg/Kg			02/28/23 04:34	1

Client Sample ID: BH-40

Lab Sample ID: 890-4172-18

Date Collected: 02/20/23 00:00

Matrix: Solid

Date Received: 02/22/23 13:18

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/23 16:02	03/04/23 08:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/23 16:02	03/04/23 08:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/23 16:02	03/04/23 08:26	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/27/23 16:02	03/04/23 08:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/23 16:02	03/04/23 08:26	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/27/23 16:02	03/04/23 08:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	02/27/23 16:02	03/04/23 08:26	1
1,4-Difluorobenzene (Surr)	97		70 - 130	02/27/23 16:02	03/04/23 08:26	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

Client Sample ID: BH-40

Lab Sample ID: 890-4172-18

Date Collected: 02/20/23 00:00

Matrix: Solid

Date Received: 02/22/23 13:18

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/06/23 14:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/28/23 12:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/25/23 11:49	02/27/23 18:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/25/23 11:49	02/27/23 18:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/25/23 11:49	02/27/23 18:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				02/25/23 11:49	02/27/23 18:53	1
o-Terphenyl	113		70 - 130				02/25/23 11:49	02/27/23 18:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.3		4.97		mg/Kg			02/28/23 04:38	1

Client Sample ID: BH-41

Lab Sample ID: 890-4172-19

Date Collected: 02/20/23 00:00

Matrix: Solid

Date Received: 02/22/23 13:18

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/04/23 08:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/04/23 08:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/04/23 08:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/27/23 16:02	03/04/23 08:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/27/23 16:02	03/04/23 08:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/27/23 16:02	03/04/23 08:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				02/27/23 16:02	03/04/23 08:47	1
1,4-Difluorobenzene (Surr)	110		70 - 130				02/27/23 16:02	03/04/23 08:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/06/23 14:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/28/23 12:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/25/23 11:49	02/27/23 19:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/25/23 11:49	02/27/23 19:15	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

Client Sample ID: BH-41
Date Collected: 02/20/23 00:00
Date Received: 02/22/23 13:18

Lab Sample ID: 890-4172-19
Matrix: Solid

Method: SW846 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)	<50.0	U	50.0		mg/Kg	-	02/25/23 11:49	02/27/23 19:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				02/25/23 11:49	02/27/23 19:15	1
o-Terphenyl	110		70 - 130				02/25/23 11:49	02/27/23 19:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.5		4.95		mg/Kg	-		02/28/23 04:43	1

Surrogate Summary

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

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)
890-4172-1	SW-47	104	100
890-4172-1 MS	SW-47	95	100
890-4172-1 MSD	SW-47	95	96
890-4172-2	SW-48	117	109
890-4172-3	SW-49	107	101
890-4172-4	SW-50	116	111
890-4172-5	SW-51	116	109
890-4172-6	SW-52	120	110
890-4172-7	SW-53	116	108
890-4172-8	SW-54	114	106
890-4172-9	SW-55	120	97
890-4172-10	SW-56	121	107
890-4172-11	SW-57	117	97
890-4172-12	SW-58	124	109
890-4172-13	SW-59	116	102
890-4172-14	SW-60	122	104
890-4172-15	BH-37	116	106
890-4172-16	BH-38	123	103
890-4172-17	BH-39	126	102
890-4172-18	BH-40	119	97
890-4172-19	BH-41	127	110
LCS 880-47350/1-A	Lab Control Sample	96	95
LCS 880-47724/1-A	Lab Control Sample	115	109
LCS 880-47733/1-A	Lab Control Sample	134 S1+	92
LCSD 880-47350/2-A	Lab Control Sample Dup	99	103
LCSD 880-47724/2-A	Lab Control Sample Dup	111	109
LCSD 880-47733/2-A	Lab Control Sample Dup	146 S1+	91
MB 880-47350/5-A	Method Blank	88	92
MB 880-47724/5-A	Method Blank	107	102
MB 880-47733/5-A	Method Blank	91	84
MB 880-47777/5-A	Method Blank	83	85

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)
890-4172-1	SW-47	101	104
890-4172-2	SW-48	88	113
890-4172-3	SW-49	95	114
890-4172-4	SW-50	81	104
890-4172-5	SW-51	87	113
890-4172-6	SW-52	83	108
890-4172-7	SW-53	86	113
890-4172-8	SW-54	96	122

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Surrogate Summary

Client: GHD Services Inc.

Job ID: 890-4172-1

Project/Site: McElvain

SDG: 12592305

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-4172-9	SW-55	88	114
890-4172-10	SW-56	84	108
890-4172-11	SW-57	81	101
890-4172-12	SW-58	85	104
890-4172-13	SW-59	85	110
890-4172-14	SW-60	97	122
890-4172-15	BH-37	90	115
890-4172-16	BH-38	98	121
890-4172-17	BH-39	87	112
890-4172-18	BH-40	89	113
890-4172-19	BH-41	87	110
LCS 880-47228/2-A	Lab Control Sample	106	120
LCS 880-47233/2-A	Lab Control Sample	86	107
LCSD 880-47228/3-A	Lab Control Sample Dup	105	107
LCSD 880-47233/3-A	Lab Control Sample Dup	90	114
MB 880-47228/1-A	Method Blank	147 S1+	163 S1+
MB 880-47233/1-A	Method Blank	139 S1+	181 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-47350/5-A

Matrix: Solid

Analysis Batch: 47690

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47350

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/27/23 16:02	03/03/23 13:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/27/23 16:02	03/03/23 13:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/27/23 16:02	03/03/23 13:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/27/23 16:02	03/03/23 13:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/27/23 16:02	03/03/23 13:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/27/23 16:02	03/03/23 13:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	02/27/23 16:02	03/03/23 13:34	1
1,4-Difluorobenzene (Surr)	92		70 - 130	02/27/23 16:02	03/03/23 13:34	1

Lab Sample ID: LCS 880-47350/1-A

Matrix: Solid

Analysis Batch: 47690

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47350

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07188		mg/Kg		72	70 - 130
Toluene	0.100	0.07279		mg/Kg		73	70 - 130
Ethylbenzene	0.100	0.07111		mg/Kg		71	70 - 130
m-Xylene & p-Xylene	0.200	0.1463		mg/Kg		73	70 - 130
o-Xylene	0.100	0.07656		mg/Kg		77	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-47350/2-A

Matrix: Solid

Analysis Batch: 47690

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47350

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1027		mg/Kg		103	70 - 130	35	35
Toluene	0.100	0.09741		mg/Kg		97	70 - 130	29	35
Ethylbenzene	0.100	0.08979		mg/Kg		90	70 - 130	23	35
m-Xylene & p-Xylene	0.200	0.1789		mg/Kg		89	70 - 130	20	35
o-Xylene	0.100	0.09257		mg/Kg		93	70 - 130	19	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-4172-1 MS

Matrix: Solid

Analysis Batch: 47690

Client Sample ID: SW-47

Prep Type: Total/NA

Prep Batch: 47350

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0996	0.08951		mg/Kg		89	70 - 130
Toluene	<0.00200	U	0.0996	0.08481		mg/Kg		85	70 - 130

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QC Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

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

Lab Sample ID: 890-4172-1 MS

Matrix: Solid

Analysis Batch: 47690

Client Sample ID: SW-47

Prep Type: Total/NA

Prep Batch: 47350

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.0996	0.07843		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1548		mg/Kg		78	70 - 130
o-Xylene	<0.00200	U	0.0996	0.07879		mg/Kg		79	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-4172-1 MSD

Matrix: Solid

Analysis Batch: 47690

Client Sample ID: SW-47

Prep Type: Total/NA

Prep Batch: 47350

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U	0.0990	0.08430		mg/Kg		85	70 - 130	6	35
Toluene	<0.00200	U	0.0990	0.08118		mg/Kg		82	70 - 130	4	35
Ethylbenzene	<0.00200	U	0.0990	0.07650		mg/Kg		77	70 - 130	3	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.1531		mg/Kg		77	70 - 130	1	35
o-Xylene	<0.00200	U	0.0990	0.07807		mg/Kg		78	70 - 130	1	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: MB 880-47724/5-A

Matrix: Solid

Analysis Batch: 47864

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47724

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/03/23 11:55	03/06/23 11:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/03/23 11:55	03/06/23 11:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/03/23 11:55	03/06/23 11:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/03/23 11:55	03/06/23 11:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/03/23 11:55	03/06/23 11:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/03/23 11:55	03/06/23 11:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	03/03/23 11:55	03/06/23 11:21	1
1,4-Difluorobenzene (Surr)	102		70 - 130	03/03/23 11:55	03/06/23 11:21	1

Lab Sample ID: LCS 880-47724/1-A

Matrix: Solid

Analysis Batch: 47864

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47724

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1199		mg/Kg		120	70 - 130
Toluene	0.100	0.1170		mg/Kg		117	70 - 130
Ethylbenzene	0.100	0.1237		mg/Kg		124	70 - 130
m-Xylene & p-Xylene	0.200	0.2670	*+	mg/Kg		133	70 - 130

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QC Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

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

Lab Sample ID: LCS 880-47724/1-A

Matrix: Solid

Analysis Batch: 47864

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47724

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1270		mg/Kg		127	70 - 130

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

Lab Sample ID: LCSD 880-47724/2-A

Matrix: Solid

Analysis Batch: 47864

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47724

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1282		mg/Kg		128	70 - 130	7	35
Toluene	0.100	0.1218		mg/Kg		122	70 - 130	4	35
Ethylbenzene	0.100	0.1248		mg/Kg		125	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2642	*+	mg/Kg		132	70 - 130	1	35
o-Xylene	0.100	0.1276		mg/Kg		128	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: MB 880-47733/5-A

Matrix: Solid

Analysis Batch: 47865

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47733

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/23 12:32	03/07/23 01:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/23 12:32	03/07/23 01:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/23 12:32	03/07/23 01:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/06/23 12:32	03/07/23 01:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/23 12:32	03/07/23 01:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/06/23 12:32	03/07/23 01:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	03/06/23 12:32	03/07/23 01:50	1
1,4-Difluorobenzene (Surr)	84		70 - 130	03/06/23 12:32	03/07/23 01:50	1

Lab Sample ID: LCS 880-47733/1-A

Matrix: Solid

Analysis Batch: 47865

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47733

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1102		mg/Kg		110	70 - 130
Toluene	0.100	0.1095		mg/Kg		109	70 - 130
Ethylbenzene	0.100	0.1035		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.2209		mg/Kg		110	70 - 130
o-Xylene	0.100	0.1047		mg/Kg		105	70 - 130

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QC Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

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

Lab Sample ID: LCS 880-47733/1-A

Matrix: Solid

Analysis Batch: 47865

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47733

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: LCSD 880-47733/2-A

Matrix: Solid

Analysis Batch: 47865

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47733

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1214		mg/Kg		121	70 - 130	10	35
Toluene	0.100	0.1203		mg/Kg		120	70 - 130	9	35
Ethylbenzene	0.100	0.1136		mg/Kg		114	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.2416		mg/Kg		121	70 - 130	9	35
o-Xylene	0.100	0.1161		mg/Kg		116	70 - 130	10	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: MB 880-47777/5-A

Matrix: Solid

Analysis Batch: 47865

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47777

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/03/23 16:01	03/06/23 12:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/03/23 16:01	03/06/23 12:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/03/23 16:01	03/06/23 12:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/03/23 16:01	03/06/23 12:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/03/23 16:01	03/06/23 12:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/03/23 16:01	03/06/23 12:10	1

	MB	MB					Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	83		70 - 130				03/03/23 16:01	03/06/23 12:10	1
1,4-Difluorobenzene (Surr)	85		70 - 130				03/03/23 16:01	03/06/23 12:10	1

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

Lab Sample ID: MB 880-47228/1-A

Matrix: Solid

Analysis Batch: 47221

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47228

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/25/23 08:55	02/25/23 20:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/25/23 08:55	02/25/23 20:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/25/23 08:55	02/25/23 20:13	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

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

Lab Sample ID: MB 880-47228/1-A

Matrix: Solid

Analysis Batch: 47221

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47228

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	147	S1+	70 - 130	02/25/23 08:55	02/25/23 20:13	1			
o-Terphenyl	163	S1+	70 - 130	02/25/23 08:55	02/25/23 20:13	1			

Lab Sample ID: LCS 880-47228/2-A

Matrix: Solid

Analysis Batch: 47221

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47228

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	969.7		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1086		mg/Kg		109	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	120		70 - 130

Lab Sample ID: LCSD 880-47228/3-A

Matrix: Solid

Analysis Batch: 47221

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47228

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	968.1		mg/Kg		97	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	951.5		mg/Kg		95	70 - 130	13	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	107		70 - 130

Lab Sample ID: MB 880-47233/1-A

Matrix: Solid

Analysis Batch: 47265

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47233

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/25/23 11:49	02/27/23 08:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/25/23 11:49	02/27/23 08:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/25/23 11:49	02/27/23 08:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130	02/25/23 11:49	02/27/23 08:26	1
o-Terphenyl	181	S1+	70 - 130	02/25/23 11:49	02/27/23 08:26	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

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

Lab Sample ID: LCS 880-47233/2-A

Matrix: Solid

Analysis Batch: 47265

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47233

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier			Limits	Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	834.0		mg/Kg		83		70 - 130	
Diesel Range Organics (Over C10-C28)			1000	892.8		mg/Kg		89		70 - 130	

Lab Sample ID: LCSD 880-47233/3-A

Matrix: Solid

Analysis Batch: 47265

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47233

Top Bottom View											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limits
Gasoline Range Organics (GRO)-C6-C10			1000	917.6		mg/Kg		92	70 - 130	10	20
Diesel Range Organics (Over C10-C28)			1000	930.9		mg/Kg		93	70 - 130	4	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
1-Chlorooctane	90		70 - 130								
o-Terphenyl	114		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-47151/1-A

Matrix: Solid

Analysis Batch: 47416

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/28/23 02:30	1

Lab Sample ID: LCS 880-47151/2-A

Matrix: Solid

Analysis Batch: 47416

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	254.9		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-47151/3-A

Matrix: Solid

Analysis Batch: 47416

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	255.7		mg/Kg		102	90 - 110	0	20

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QC Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4172-1 MS

Matrix: Solid

Analysis Batch: 47416

Client Sample ID: SW-47

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	37600	F1	12600	55520	F1	mg/Kg		142	90 - 110		

Lab Sample ID: 890-4172-1 MSD

Matrix: Solid

Analysis Batch: 47416

Client Sample ID: SW-47

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	37600	F1	12600	55510	F1	mg/Kg		142	90 - 110	0	20

Lab Sample ID: 890-4172-11 MS

Matrix: Solid

Analysis Batch: 47416

Client Sample ID: SW-57

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	31800	F1	12500	57840	F1	mg/Kg		209	90 - 110		

Lab Sample ID: 890-4172-11 MSD

Matrix: Solid

Analysis Batch: 47416

Client Sample ID: SW-57

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	31800	F1	12500	57730	F1	mg/Kg		208	90 - 110	0	20

QC Association Summary

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

GC VOA

Prep Batch: 47350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4172-1	SW-47	Total/NA	Solid	5035	
890-4172-2	SW-48	Total/NA	Solid	5035	
890-4172-3	SW-49	Total/NA	Solid	5035	
890-4172-4	SW-50	Total/NA	Solid	5035	
890-4172-5	SW-51	Total/NA	Solid	5035	
890-4172-6	SW-52	Total/NA	Solid	5035	
890-4172-7	SW-53	Total/NA	Solid	5035	
890-4172-8	SW-54	Total/NA	Solid	5035	
890-4172-9	SW-55	Total/NA	Solid	5035	
890-4172-10	SW-56	Total/NA	Solid	5035	
890-4172-11	SW-57	Total/NA	Solid	5035	
890-4172-12	SW-58	Total/NA	Solid	5035	
890-4172-13	SW-59	Total/NA	Solid	5035	
890-4172-14	SW-60	Total/NA	Solid	5035	
890-4172-15	BH-37	Total/NA	Solid	5035	
890-4172-16	BH-38	Total/NA	Solid	5035	
890-4172-17	BH-39	Total/NA	Solid	5035	
890-4172-18	BH-40	Total/NA	Solid	5035	
890-4172-19	BH-41	Total/NA	Solid	5035	
MB 880-47350/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-47350/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-47350/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4172-1 MS	SW-47	Total/NA	Solid	5035	
890-4172-1 MSD	SW-47	Total/NA	Solid	5035	

Analysis Batch: 47690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4172-1	SW-47	Total/NA	Solid	8021B	47350
890-4172-2	SW-48	Total/NA	Solid	8021B	47350
890-4172-3	SW-49	Total/NA	Solid	8021B	47350
890-4172-4	SW-50	Total/NA	Solid	8021B	47350
890-4172-5	SW-51	Total/NA	Solid	8021B	47350
890-4172-6	SW-52	Total/NA	Solid	8021B	47350
890-4172-8	SW-54	Total/NA	Solid	8021B	47350
890-4172-9	SW-55	Total/NA	Solid	8021B	47350
890-4172-10	SW-56	Total/NA	Solid	8021B	47350
890-4172-11	SW-57	Total/NA	Solid	8021B	47350
890-4172-12	SW-58	Total/NA	Solid	8021B	47350
890-4172-13	SW-59	Total/NA	Solid	8021B	47350
890-4172-14	SW-60	Total/NA	Solid	8021B	47350
890-4172-15	BH-37	Total/NA	Solid	8021B	47350
890-4172-16	BH-38	Total/NA	Solid	8021B	47350
890-4172-17	BH-39	Total/NA	Solid	8021B	47350
890-4172-18	BH-40	Total/NA	Solid	8021B	47350
890-4172-19	BH-41	Total/NA	Solid	8021B	47350
MB 880-47350/5-A	Method Blank	Total/NA	Solid	8021B	47350
LCS 880-47350/1-A	Lab Control Sample	Total/NA	Solid	8021B	47350
LCSD 880-47350/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	47350
890-4172-1 MS	SW-47	Total/NA	Solid	8021B	47350
890-4172-1 MSD	SW-47	Total/NA	Solid	8021B	47350

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QC Association Summary

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

GC VOA

Prep Batch: 47724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-47724/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-47724/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-47724/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 47733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-47733/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-47733/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-47733/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 47777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-47777/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 47864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4172-7	SW-53	Total/NA	Solid	8021B	47350
MB 880-47724/5-A	Method Blank	Total/NA	Solid	8021B	47724
LCS 880-47724/1-A	Lab Control Sample	Total/NA	Solid	8021B	47724
LCSD 880-47724/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	47724

Analysis Batch: 47865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-47733/5-A	Method Blank	Total/NA	Solid	8021B	47733
MB 880-47777/5-A	Method Blank	Total/NA	Solid	8021B	47777
LCS 880-47733/1-A	Lab Control Sample	Total/NA	Solid	8021B	47733
LCSD 880-47733/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	47733

Analysis Batch: 47950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4172-1	SW-47	Total/NA	Solid	Total BTEX	
890-4172-2	SW-48	Total/NA	Solid	Total BTEX	
890-4172-3	SW-49	Total/NA	Solid	Total BTEX	
890-4172-4	SW-50	Total/NA	Solid	Total BTEX	
890-4172-5	SW-51	Total/NA	Solid	Total BTEX	
890-4172-6	SW-52	Total/NA	Solid	Total BTEX	
890-4172-7	SW-53	Total/NA	Solid	Total BTEX	
890-4172-8	SW-54	Total/NA	Solid	Total BTEX	
890-4172-9	SW-55	Total/NA	Solid	Total BTEX	
890-4172-10	SW-56	Total/NA	Solid	Total BTEX	
890-4172-11	SW-57	Total/NA	Solid	Total BTEX	
890-4172-12	SW-58	Total/NA	Solid	Total BTEX	
890-4172-13	SW-59	Total/NA	Solid	Total BTEX	
890-4172-14	SW-60	Total/NA	Solid	Total BTEX	
890-4172-15	BH-37	Total/NA	Solid	Total BTEX	
890-4172-16	BH-38	Total/NA	Solid	Total BTEX	
890-4172-17	BH-39	Total/NA	Solid	Total BTEX	
890-4172-18	BH-40	Total/NA	Solid	Total BTEX	
890-4172-19	BH-41	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

GC Semi VOA

Analysis Batch: 47221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4172-1	SW-47	Total/NA	Solid	8015B NM	47228
MB 880-47228/1-A	Method Blank	Total/NA	Solid	8015B NM	47228
LCS 880-47228/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47228
LCSD 880-47228/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47228

Prep Batch: 47228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4172-1	SW-47	Total/NA	Solid	8015NM Prep	
MB 880-47228/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47228/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47228/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 47233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4172-2	SW-48	Total/NA	Solid	8015NM Prep	
890-4172-3	SW-49	Total/NA	Solid	8015NM Prep	
890-4172-4	SW-50	Total/NA	Solid	8015NM Prep	
890-4172-5	SW-51	Total/NA	Solid	8015NM Prep	
890-4172-6	SW-52	Total/NA	Solid	8015NM Prep	
890-4172-7	SW-53	Total/NA	Solid	8015NM Prep	
890-4172-8	SW-54	Total/NA	Solid	8015NM Prep	
890-4172-9	SW-55	Total/NA	Solid	8015NM Prep	
890-4172-10	SW-56	Total/NA	Solid	8015NM Prep	
890-4172-11	SW-57	Total/NA	Solid	8015NM Prep	
890-4172-12	SW-58	Total/NA	Solid	8015NM Prep	
890-4172-13	SW-59	Total/NA	Solid	8015NM Prep	
890-4172-14	SW-60	Total/NA	Solid	8015NM Prep	
890-4172-15	BH-37	Total/NA	Solid	8015NM Prep	
890-4172-16	BH-38	Total/NA	Solid	8015NM Prep	
890-4172-17	BH-39	Total/NA	Solid	8015NM Prep	
890-4172-18	BH-40	Total/NA	Solid	8015NM Prep	
890-4172-19	BH-41	Total/NA	Solid	8015NM Prep	
MB 880-47233/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47233/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47233/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 47265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4172-2	SW-48	Total/NA	Solid	8015B NM	47233
890-4172-3	SW-49	Total/NA	Solid	8015B NM	47233
890-4172-4	SW-50	Total/NA	Solid	8015B NM	47233
890-4172-5	SW-51	Total/NA	Solid	8015B NM	47233
890-4172-6	SW-52	Total/NA	Solid	8015B NM	47233
890-4172-7	SW-53	Total/NA	Solid	8015B NM	47233
890-4172-8	SW-54	Total/NA	Solid	8015B NM	47233
890-4172-9	SW-55	Total/NA	Solid	8015B NM	47233
890-4172-10	SW-56	Total/NA	Solid	8015B NM	47233
890-4172-11	SW-57	Total/NA	Solid	8015B NM	47233
890-4172-12	SW-58	Total/NA	Solid	8015B NM	47233
890-4172-13	SW-59	Total/NA	Solid	8015B NM	47233
890-4172-14	SW-60	Total/NA	Solid	8015B NM	47233

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QC Association Summary

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

GC Semi VOA (Continued)

Analysis Batch: 47265 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4172-15	BH-37	Total/NA	Solid	8015B NM	47233
890-4172-16	BH-38	Total/NA	Solid	8015B NM	47233
890-4172-17	BH-39	Total/NA	Solid	8015B NM	47233
890-4172-18	BH-40	Total/NA	Solid	8015B NM	47233
890-4172-19	BH-41	Total/NA	Solid	8015B NM	47233
MB 880-47233/1-A	Method Blank	Total/NA	Solid	8015B NM	47233
LCS 880-47233/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47233
LCSD 880-47233/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47233

Analysis Batch: 47327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4172-1	SW-47	Total/NA	Solid	8015 NM	
890-4172-2	SW-48	Total/NA	Solid	8015 NM	
890-4172-3	SW-49	Total/NA	Solid	8015 NM	
890-4172-4	SW-50	Total/NA	Solid	8015 NM	
890-4172-5	SW-51	Total/NA	Solid	8015 NM	
890-4172-6	SW-52	Total/NA	Solid	8015 NM	
890-4172-7	SW-53	Total/NA	Solid	8015 NM	
890-4172-8	SW-54	Total/NA	Solid	8015 NM	
890-4172-9	SW-55	Total/NA	Solid	8015 NM	
890-4172-10	SW-56	Total/NA	Solid	8015 NM	
890-4172-11	SW-57	Total/NA	Solid	8015 NM	
890-4172-12	SW-58	Total/NA	Solid	8015 NM	
890-4172-13	SW-59	Total/NA	Solid	8015 NM	
890-4172-14	SW-60	Total/NA	Solid	8015 NM	
890-4172-15	BH-37	Total/NA	Solid	8015 NM	
890-4172-16	BH-38	Total/NA	Solid	8015 NM	
890-4172-17	BH-39	Total/NA	Solid	8015 NM	
890-4172-18	BH-40	Total/NA	Solid	8015 NM	
890-4172-19	BH-41	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 47151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4172-1	SW-47	Soluble	Solid	DI Leach	
890-4172-2	SW-48	Soluble	Solid	DI Leach	
890-4172-3	SW-49	Soluble	Solid	DI Leach	
890-4172-4	SW-50	Soluble	Solid	DI Leach	
890-4172-5	SW-51	Soluble	Solid	DI Leach	
890-4172-6	SW-52	Soluble	Solid	DI Leach	
890-4172-7	SW-53	Soluble	Solid	DI Leach	
890-4172-8	SW-54	Soluble	Solid	DI Leach	
890-4172-9	SW-55	Soluble	Solid	DI Leach	
890-4172-10	SW-56	Soluble	Solid	DI Leach	
890-4172-11	SW-57	Soluble	Solid	DI Leach	
890-4172-12	SW-58	Soluble	Solid	DI Leach	
890-4172-13	SW-59	Soluble	Solid	DI Leach	
890-4172-14	SW-60	Soluble	Solid	DI Leach	
890-4172-15	BH-37	Soluble	Solid	DI Leach	
890-4172-16	BH-38	Soluble	Solid	DI Leach	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

HPLC/IC (Continued)

Leach Batch: 47151 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4172-17	BH-39	Soluble	Solid	DI Leach	
890-4172-18	BH-40	Soluble	Solid	DI Leach	
890-4172-19	BH-41	Soluble	Solid	DI Leach	
MB 880-47151/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-47151/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-47151/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4172-1 MS	SW-47	Soluble	Solid	DI Leach	
890-4172-1 MSD	SW-47	Soluble	Solid	DI Leach	
890-4172-11 MS	SW-57	Soluble	Solid	DI Leach	
890-4172-11 MSD	SW-57	Soluble	Solid	DI Leach	

Analysis Batch: 47416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4172-1	SW-47	Soluble	Solid	300.0	47151
890-4172-2	SW-48	Soluble	Solid	300.0	47151
890-4172-3	SW-49	Soluble	Solid	300.0	47151
890-4172-4	SW-50	Soluble	Solid	300.0	47151
890-4172-5	SW-51	Soluble	Solid	300.0	47151
890-4172-6	SW-52	Soluble	Solid	300.0	47151
890-4172-7	SW-53	Soluble	Solid	300.0	47151
890-4172-8	SW-54	Soluble	Solid	300.0	47151
890-4172-9	SW-55	Soluble	Solid	300.0	47151
890-4172-10	SW-56	Soluble	Solid	300.0	47151
890-4172-11	SW-57	Soluble	Solid	300.0	47151
890-4172-12	SW-58	Soluble	Solid	300.0	47151
890-4172-13	SW-59	Soluble	Solid	300.0	47151
890-4172-14	SW-60	Soluble	Solid	300.0	47151
890-4172-15	BH-37	Soluble	Solid	300.0	47151
890-4172-16	BH-38	Soluble	Solid	300.0	47151
890-4172-17	BH-39	Soluble	Solid	300.0	47151
890-4172-18	BH-40	Soluble	Solid	300.0	47151
890-4172-19	BH-41	Soluble	Solid	300.0	47151
MB 880-47151/1-A	Method Blank	Soluble	Solid	300.0	47151
LCS 880-47151/2-A	Lab Control Sample	Soluble	Solid	300.0	47151
LCSD 880-47151/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47151
890-4172-1 MS	SW-47	Soluble	Solid	300.0	47151
890-4172-1 MSD	SW-47	Soluble	Solid	300.0	47151
890-4172-11 MS	SW-57	Soluble	Solid	300.0	47151
890-4172-11 MSD	SW-57	Soluble	Solid	300.0	47151

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Lab Chronicle

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

Client Sample ID: SW-47**Date Collected: 02/20/23 00:00****Date Received: 02/22/23 13:18****Lab Sample ID: 890-4172-1****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			4.99 g	5 mL	47350	02/27/23 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47690	03/03/23 13:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47950	03/06/23 14:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47327	02/27/23 12:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47228	02/25/23 08:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47221	02/26/23 05:13	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	47151	02/24/23 10:32	KS	EET MID
Soluble	Analysis	300.0		50			47416	02/28/23 02:43	CH	EET MID

Client Sample ID: SW-48**Date Collected: 02/20/23 00:00****Date Received: 02/22/23 13:18****Lab Sample ID: 890-4172-2****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			5.05 g	5 mL	47350	02/27/23 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47690	03/03/23 14:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47950	03/06/23 14:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47327	02/28/23 12:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47233	02/25/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47265	02/27/23 12:34	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47151	02/24/23 10:32	KS	EET MID
Soluble	Analysis	300.0		10			47416	02/28/23 02:57	CH	EET MID

Client Sample ID: SW-49**Date Collected: 02/20/23 00:00****Date Received: 02/22/23 13:18****Lab Sample ID: 890-4172-3****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			5.03 g	5 mL	47350	02/27/23 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47690	03/03/23 14:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47950	03/06/23 14:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47327	02/28/23 12:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47233	02/25/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47265	02/27/23 12:57	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	47151	02/24/23 10:32	KS	EET MID
Soluble	Analysis	300.0		50			47416	02/28/23 03:02	CH	EET MID

Client Sample ID: SW-50**Date Collected: 02/20/23 00:00****Date Received: 02/22/23 13:18****Lab Sample ID: 890-4172-4****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	47350	02/27/23 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47690	03/03/23 14:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47950	03/06/23 14:44	AJ	EET MID

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Lab Chronicle

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

Client Sample ID: SW-50**Date Collected: 02/20/23 00:00****Date Received: 02/22/23 13:18****Lab Sample ID: 890-4172-4****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			47327	02/28/23 12:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47233	02/25/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47265	02/27/23 13:20	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	47151	02/24/23 10:32	KS	EET MID
Soluble	Analysis	300.0		50			47416	02/28/23 03:06	CH	EET MID

Client Sample ID: SW-51**Date Collected: 02/20/23 00:00****Date Received: 02/22/23 13:18****Lab Sample ID: 890-4172-5****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			4.97 g	5 mL	47350	02/27/23 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47690	03/03/23 15:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47950	03/06/23 14:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47327	02/28/23 12:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47233	02/25/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47265	02/27/23 13:42	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	47151	02/24/23 10:32	KS	EET MID
Soluble	Analysis	300.0		50			47416	02/28/23 03:11	CH	EET MID

Client Sample ID: SW-52**Date Collected: 02/20/23 00:00****Date Received: 02/22/23 13:18****Lab Sample ID: 890-4172-6****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			4.99 g	5 mL	47350	02/27/23 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47690	03/03/23 15:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47950	03/06/23 14:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47327	02/28/23 12:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47233	02/25/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47265	02/27/23 14:04	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	47151	02/24/23 10:32	KS	EET MID
Soluble	Analysis	300.0		50			47416	02/28/23 03:25	CH	EET MID

Client Sample ID: SW-53**Date Collected: 02/20/23 00:00****Date Received: 02/22/23 13:18****Lab Sample ID: 890-4172-7****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			5.02 g	5 mL	47350	02/27/23 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47864	03/06/23 12:11	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			47950	03/07/23 13:40	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47327	02/28/23 12:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47233	02/25/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47265	02/27/23 14:26	SM	EET MID

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Lab Chronicle

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

Client Sample ID: SW-53**Date Collected: 02/20/23 00:00****Date Received: 02/22/23 13:18****Lab Sample ID: 890-4172-7****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			5.03 g	50 mL	47151	02/24/23 10:32	KS	EET MID
Soluble	Analysis	300.0		50			47416	02/28/23 03:29	CH	EET MID

Client Sample ID: SW-54**Date Collected: 02/20/23 00:00****Date Received: 02/22/23 13:18****Lab Sample ID: 890-4172-8****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			5.03 g	5 mL	47350	02/27/23 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47690	03/03/23 17:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47950	03/06/23 14:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47327	02/28/23 12:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47233	02/25/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47265	02/27/23 14:48	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47151	02/24/23 10:32	KS	EET MID
Soluble	Analysis	300.0		50			47416	02/28/23 03:34	CH	EET MID

Client Sample ID: SW-55**Date Collected: 02/20/23 00:00****Date Received: 02/22/23 13:18****Lab Sample ID: 890-4172-9****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			5.01 g	5 mL	47350	02/27/23 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47690	03/03/23 18:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47950	03/06/23 14:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47327	02/28/23 12:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47233	02/25/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47265	02/27/23 15:10	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	47151	02/24/23 10:32	KS	EET MID
Soluble	Analysis	300.0		50			47416	02/28/23 03:38	CH	EET MID

Client Sample ID: SW-56**Date Collected: 02/20/23 00:00****Date Received: 02/22/23 13:18****Lab Sample ID: 890-4172-10****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			5.02 g	5 mL	47350	02/27/23 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47690	03/03/23 18:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47950	03/06/23 14:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47327	02/28/23 12:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47233	02/25/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47265	02/27/23 15:56	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	47151	02/24/23 10:32	KS	EET MID
Soluble	Analysis	300.0		50			47416	02/28/23 03:43	CH	EET MID

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Lab Chronicle

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

Client Sample ID: SW-57

Lab Sample ID: 890-4172-11

Date Collected: 02/20/23 00:00

Matrix: Solid

Date Received: 02/22/23 13:18

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	47350	02/27/23 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47690	03/03/23 19:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47950	03/06/23 14:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47327	02/28/23 12:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47233	02/25/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47265	02/27/23 16:19	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	47151	02/24/23 10:32	KS	EET MID
Soluble	Analysis	300.0		50			47416	02/28/23 03:48	CH	EET MID

Client Sample ID: SW-58

Lab Sample ID: 890-4172-12

Date Collected: 02/20/23 00:00

Matrix: Solid

Date Received: 02/22/23 13:18

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	47350	02/27/23 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47690	03/03/23 20:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47950	03/06/23 14:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47327	02/28/23 12:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47233	02/25/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47265	02/27/23 16:41	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47151	02/24/23 10:32	KS	EET MID
Soluble	Analysis	300.0		5			47416	02/28/23 04:01	CH	EET MID

Client Sample ID: SW-59

Lab Sample ID: 890-4172-13

Date Collected: 02/20/23 00:00

Matrix: Solid

Date Received: 02/22/23 13:18

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	47350	02/27/23 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47690	03/03/23 20:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47950	03/06/23 14:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47327	02/28/23 12:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47233	02/25/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47265	02/27/23 17:03	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	47151	02/24/23 10:32	KS	EET MID
Soluble	Analysis	300.0		1			47416	02/28/23 04:06	CH	EET MID

Client Sample ID: SW-60

Lab Sample ID: 890-4172-14

Date Collected: 02/20/23 00:00

Matrix: Solid

Date Received: 02/22/23 13:18

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	47350	02/27/23 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47690	03/03/23 20:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47950	03/06/23 14:44	AJ	EET MID

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Lab Chronicle

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

Client Sample ID: SW-60

Lab Sample ID: 890-4172-14

Date Collected: 02/20/23 00:00

Matrix: Solid

Date Received: 02/22/23 13:18

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			47327	02/28/23 12:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47233	02/25/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47265	02/27/23 17:24	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	47151	02/24/23 10:32	KS	EET MID
Soluble	Analysis	300.0		1			47416	02/28/23 04:20	CH	EET MID

Client Sample ID: BH-37

Lab Sample ID: 890-4172-15

Date Collected: 02/20/23 00:00

Matrix: Solid

Date Received: 02/22/23 13:18

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	47350	02/27/23 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47690	03/03/23 21:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47950	03/06/23 14:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47327	02/28/23 12:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47233	02/25/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47265	02/27/23 17:47	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	47151	02/24/23 10:32	KS	EET MID
Soluble	Analysis	300.0		5			47416	02/28/23 04:24	CH	EET MID

Client Sample ID: BH-38

Lab Sample ID: 890-4172-16

Date Collected: 02/20/23 00:00

Matrix: Solid

Date Received: 02/22/23 13:18

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	47350	02/27/23 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47690	03/03/23 21:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47950	03/06/23 14:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47327	02/28/23 12:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47233	02/25/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47265	02/27/23 18:09	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	47151	02/24/23 10:32	KS	EET MID
Soluble	Analysis	300.0		5			47416	02/28/23 12:26	CH	EET MID

Client Sample ID: BH-39

Lab Sample ID: 890-4172-17

Date Collected: 02/20/23 00:00

Matrix: Solid

Date Received: 02/22/23 13:18

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	47350	02/27/23 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47690	03/03/23 21:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47950	03/06/23 14:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47327	02/28/23 12:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47233	02/25/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47265	02/27/23 18:31	SM	EET MID

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Lab Chronicle

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

Client Sample ID: BH-39**Date Collected: 02/20/23 00:00****Date Received: 02/22/23 13:18****Lab Sample ID: 890-4172-17****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			4.95 g	50 mL	47151	02/24/23 10:32	KS	EET MID
Soluble	Analysis	300.0		1			47416	02/28/23 04:34	CH	EET MID

Client Sample ID: BH-40**Date Collected: 02/20/23 00:00****Date Received: 02/22/23 13:18****Lab Sample ID: 890-4172-18****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			4.99 g	5 mL	47350	02/27/23 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47690	03/04/23 08:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47950	03/06/23 14:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47327	02/28/23 12:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47233	02/25/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47265	02/27/23 18:53	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	47151	02/24/23 10:32	KS	EET MID
Soluble	Analysis	300.0		1			47416	02/28/23 04:38	CH	EET MID

Client Sample ID: BH-41**Date Collected: 02/20/23 00:00****Date Received: 02/22/23 13:18****Lab Sample ID: 890-4172-19****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	47350	02/27/23 16:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47690	03/04/23 08:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47950	03/06/23 14:44	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47327	02/28/23 12:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47233	02/25/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47265	02/27/23 19:15	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	47151	02/24/23 10:32	KS	EET MID
Soluble	Analysis	300.0		1			47416	02/28/23 04:43	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

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	T104704400-22-25	06-30-23
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

Method Summary

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

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

Protocol References:
ASTM = ASTM International
EPA = US Environmental Protection Agency
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:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 890-4172-1
SDG: 12592305

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-4172-1	SW-47	Solid	02/20/23 00:00	02/22/23 13:18
890-4172-2	SW-48	Solid	02/20/23 00:00	02/22/23 13:18
890-4172-3	SW-49	Solid	02/20/23 00:00	02/22/23 13:18
890-4172-4	SW-50	Solid	02/20/23 00:00	02/22/23 13:18
890-4172-5	SW-51	Solid	02/20/23 00:00	02/22/23 13:18
890-4172-6	SW-52	Solid	02/20/23 00:00	02/22/23 13:18
890-4172-7	SW-53	Solid	02/20/23 00:00	02/22/23 13:18
890-4172-8	SW-54	Solid	02/20/23 00:00	02/22/23 13:18
890-4172-9	SW-55	Solid	02/20/23 00:00	02/22/23 13:18
890-4172-10	SW-56	Solid	02/20/23 00:00	02/22/23 13:18
890-4172-11	SW-57	Solid	02/20/23 00:00	02/22/23 13:18
890-4172-12	SW-58	Solid	02/20/23 00:00	02/22/23 13:18
890-4172-13	SW-59	Solid	02/20/23 00:00	02/22/23 13:18
890-4172-14	SW-60	Solid	02/20/23 00:00	02/22/23 13:18
890-4172-15	BH-37	Solid	02/20/23 00:00	02/22/23 13:18
890-4172-16	BH-38	Solid	02/20/23 00:00	02/22/23 13:18
890-4172-17	BH-39	Solid	02/20/23 00:00	02/22/23 13:18
890-4172-18	BH-40	Solid	02/20/23 00:00	02/22/23 13:18
890-4172-19	BH-41	Solid	02/20/23 00:00	02/22/23 13:18



Environment Testing
Xenco

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

Chain of Custody

Work Order No:

www.xenco.com Page 1 of 2

Project Manager:	Stephen Asante-Ansong	Bill to: (if different)	
Company Name:	GHD	Company Name:	
Address:	6121 Indian School Rd., NE St. 200	Address:	
City, State ZIP:	Albuquerque, NM 87110	City, State ZIP:	
Phone:	(281)386-7158	Email:	Stephen.Asante-ansong@ghd.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other: _____	

ANALYSIS REQUEST						Preservative Codes		
Project Name:	MCEI/vain	Turn Around					None: NO	DI Water: H ₂ O
Project Number:	12603563	☒ Routine ☐ Rush					Cool: Cool	MeOH: Me
Project Location:	Artesia, NM	Due Date:	5-day TAT				HCL: HC	HNO ₃ : HN
Sampler's Name:	Daniel Sparks	TAT starts the day received by the lab, if received by 4:30pm					H ₂ SO ₄ : H ₂	NaOH: Na
PO #:								
SAMPLE RECEIPT		Temp Blank:	(Yes) No	Wet Ice:	(Yes) No			
Samples Received Intact:	(Yes)	No	Thermometer ID:	115mcc07				H ₃ PO ₄ : HP
Cooler Custody Seals:	Yes	No	N/A	Correction Factor:	-0.8	NaHSO ₄ : NABIS		
Sample Custody Seals:	Yes	No	N/A	Temperature Reading:	4.8	Na ₂ S ₂ O ₅ : NaSO ₃		
Total Containers:			Corrected Temperature:	4.6				Zn Acetate+NaOH: Zn
								NaOH+Ascorbic Acid: SARC
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Sample Comments	
SW-47	SO	2.20.03			Comp	1	x	Incident ID:
SW-48	SO				Comp	1	x	
SW-49	SO				Comp	1	x	Cost Center:
SW-50	SO				Comp	1	x	
SW-51	SO				Comp	1	x	A/E:
SW-52	SO				Comp	1	x	
SW-53	SO				Comp	1	x	
SW-54	SO				Comp	1	x	
SW-55	SO				Comp	1	x	
SW-56	SO				Comp	1	x	

Parameters

CHLORIDES (EPA: 300.0)

TPH (8015)

BTEX (8021)



890-4172 Chain of Custody

Total 200.7 / 6010		200.8 / 6020:		8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn	
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U		Hg: 1631 / 245.1 / 7470 / 7471	
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xonco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xonco 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 Xonco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xonco, 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
1 <i>[Signature]</i>	<i>[Signature]</i>	08-22-23 15:41-22-23/13:18 ²			
3					4
5					6

Revised Date 08/25/2020 Rev 2020



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
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El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No.:

www.xenco.com Page 4 of 3

Project Manager:	Stephen Asante-Ansong	Bill to: (if different)	
Company Name:	GHD	Company Name:	
Address:	6121 Indian School Rd., NE St. 200	Address:	
City, State ZIP:	Albuquerque, NM 87110	City, State ZIP:	
Phone:	(281)386-7158	Email:	Stephen.Asante-ansong@ghd.com

Work Order Comments	
Program:	UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting:	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables:	EDD ☐ ADaPT ☐ Other:

ANALYSIS REQUEST										Preservative Codes		
Project Name:		MEI/wain		Turn Around		Pres. Code						
Project Number:		12603583		☒ Routine ☐ Rush						None: NO		
Project Location:		Artesia, NM		Due Date:		5-day TAT				Cool: Cool		
Samplers Name:		Daniel Sparks		TAT starts the day received by the lab, if received by 4:30pm						HCL: HC		
PO #:										HNO ₃ : HN		
SAMPLE RECEIPT				Temp Blank:	Yes	No	Wet Ice:	Yes	No	H ₂ SO ₄ : H ₂		
Samples Received Intact:				Yes	No	Thermometer ID:					H ₃ PO ₄ : HP	
Cooler Custody Seals:				Yes	No	Condensation Factor:					NaHSO ₄ : NABIS	
Sample Custody Seals:				Yes	No	Temperature Reading:					Na ₂ S ₂ O ₃ : NASO ₃	
Total Containers:				Yes	No	Corrected Temperature:					Zn Acetate+NaOH: Zn	
											NaOH+Ascorbic Acid: SAPC	
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters				Sample Comments
								CHLORIDES (EPA: 300.0)	TPH (8015)	BTX (8021)		
SW-57	SO	2/20/2023			Comp	1		X	X	X		Incident ID:
SW-58	SO	2/20/2023			Comp	1		X	X	X		
SW-59	SO	2/20/2023			Comp	1		X	X	X		Cost Center:
SW-60	SO	2/20/2023			Comp	1		X	X	X		
BH-37	SO	2/20/2023			Comp	1		X	X	X		A/E:
BH-38	SO	2/20/2023			Comp	1		X	X	X		
BH-39	SO	2/20/2023			Comp	1		X	X	X		
BH-40	SO	2/20/2023			Comp	1		X	X	X		
BH-41	SO	2/20/2023			Comp	1		X	X	X		

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 ₂ Na Sr Ti Sn U V Zn	
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U		Hg: 1631 / 245.1 / 7470 / 7471			
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		
1. 		2-22-23 / 3:16	2				
3			4				
5			6				

Revised Date: 08/25/2020 Rev: 2020



Environment Testing
Xenco

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

Chain of Custody

Work Order No:

www.xenco.com Page 1 of 7

Project Manager:	Stephen Asante-Ansong	Bill to: (if different)	
Company Name:	GHD	Company Name:	
Address:	6121 Indian School Rd., NE St. 200	Address:	
City, State ZIP:	Albuquerque, NM 87110	City, State ZIP:	
Phone:	(281)386-7158	Email:	Stephen.Asante-ansong@ghd.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

[illegible][illegible]

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 ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP	6010:	8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xencro, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xencro 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 Xencro. A minimum charge of \$85.00 will be applied to each project and a charge of \$3 for each sample submitted to Eurofins Xencro, 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
1 <i>D. Smith</i>	<i>Cliff Smith</i>	2022-23/13:18			
2					
3					
4					
5					
6					

Revised Date: 08/25/2020 Rev: 2020



Environment Testing
Xenco

Houston, TX (261) 240-4200, Dallas, TX (214) 962-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No:

www.xenco.com

Page

1

of

3

Project Manager:	Stephen Asante-Ansong	Bill to: (if different)	
Company Name:	GHD	Company Name:	
Address:	6121 Indian School Rd. NE St. 200	Address:	
City, State ZIP:	Albuquerque, NM 87110	City, State ZIP:	
Phone:	(281)386-7158	Email:	Stephen.Asante-ansong@ghd.com

Work Order Comments
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐ State of Project: Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐ Deliverables: EDD ☐ ADAPT ☐ Other:

ANALYSIS REQUEST								Preservative Codes					
Project Name:	Melvin	Turn Around						None; NO	DI Water; H ₂ O				
Project Number:	12603583'	☒ Routine ☐ Rush						Cool; Cool	MeOH; Me				
Project Location:	Artesia, NM	Due Date:	5-day TAT					HCL; HC	HNO ₃ ; HN				
Sampler's Name:	Daniel Sparks	TAT starts the day received by the lab, if received by 4:30pm						H ₂ SO ₄ ; H ₂	NaOH; Na				
PO #:													
SAMPLE RECEIPT	Temp Blank:	Yes No	Thermometer ID:	Wet Ice:	Yes No	Parameters							
Samples Received Inact:	Yes No	No				CHLORIDES (EPA: 300.0)							
Cooler Custody Seals:	Yes No N/A	Custodian Fictio:				TPH (8015)							
Sample Custody Seals:	Yes No N/A	Temperature Reeling:				BTEx (8021)							
Total Containers:		Corrected Temperature:											
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont.	Incident ID:						
SW-57	SO	2/20/2023			Comp 1	X X X	Cost Center:						
SW-58	SO	2/20/2023			Comp 1	X X X	A/E:						
SW-59	SO	2/20/2023			Comp 1	X X X							
SW-60	SO	2/20/2023			Comp 1	X X X							
BH-37	SO	2/20/2023			Comp 1	X X X							
BH-38	SO	2/20/2023			Comp 1	X X X							
BH-39	SO	2/20/2023			Comp 1	X X X							
BH-40	SO	2/20/2023			Comp 1	X X X							
BH-41	SO	2/20/2023			Comp 1	X X X							

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	SiO₂	Na	Si	Ti	Sn	U	Zn
Circle Method(s) and Metal(s) to be analyzed			TCLP / SPLP 6010:	8RCRA	Sb	As	Ba	Be	B	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti												

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 \$350.00 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
1 <i>D. Smith</i>	<i>Glenn Smith</i>	2-22-23 / 13:18	2		
3			4		
5			6		

Revised Date 08/25/2020 Rev. 2020

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- 14

Eurofins Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone: 575-988-3199 Fax 575-988-3199

Chain of Custody Record



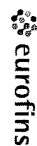
Environment Testing

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No.
Client Contact:	Phone	Simmons Debbie			890-1145 1
Shipping/Receiving	E-Mail	Debbie.Simmons@eurofins.com	State of Origin	Page 1 of 3	
Company	Eurofins Environment Testing South Cent	Accreditations Required (See note):	NEIAP - Louisiana NEIAP - Texas	Job #:	890-4172-1
Address	1211 W. Florida Ave.	Due Date Requested	2/28/2023	Preservation Codes	A. HCL B. NaOH C. Zn Acetate D. Nitric Acid E. NaHSO4 F. MeOH G. Amchlor H. Ascorbic Acid I. Ice J. DI Water K. EDTA L. EDA M. Hexane N. None O. AsNaO2 P. Na2CO3 Q. Na2SO3 R. Na2S2O3 S. H2SO4 T. TSP Dodecalydrate U. Acetone V. MCAA W. pH 4-5 Y. Trizma Z. other (specify)
City	Midland	TAT Requested (days):		Analysis Requested	
State Zip:	TX 79701				
Phone:	432-704-5440(Tel)	PO #:			
Email		WO #:			
Project Name:	MCEIvian	Project #:	89000118		
Site		SSOW#:			
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (V=Veget, S=sediment, O=soil, BI=biological, A=air)
SW-47 (890-4172-1)		2/20/23	Mountain	Solid	
SW-48 (890-4172-2)		2/20/23	Mountain	Solid	
SW-49 (890-4172-3)		2/20/23	Mountain	Solid	
SW-50 (890-4172-4)		2/20/23	Mountain	Solid	
SW-51 (890-4172-5)		2/20/23	Mountain	Solid	
SW-52 (890-4172-6)		2/20/23	Mountain	Solid	
SW-53 (890-4172-7)		2/20/23	Mountain	Solid	
SW-54 (890-4172-8)		2/20/23	Mountain	Solid	
SW-55 (890-4172-9)		2/20/23	Mountain	Solid	
Field Filtered Sample (Yes or No)					
Perform MS/MSD (Yes or No)					
8021B/5035FP_Calc BTEX-8021 (bulk jar)					
8015MOD_NM/8015NM_S_Prep Full TPH					
300_ORGFDM_28D/DI_LEACH Chloride					
8015MOD_Calc					
Total_BTEX_GCV					
Total Number of containers					
Special Instructions/Note:					
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested I II III IV Other (specify)					
Primary Deliverable Rank 2					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months					
Special Instructions/QC Requirements					
Empty Kit Relinquished by		Date/Time	Date	Time	Method of Shipment
Relinquished by <i>Dee</i>					
Relinquished by		Date/Time	Company	Received by	Date/Time
Relinquished by		Date/Time	Company	Received by	Date/Time
Custody Seals Intact.		Custody Seal No	Cooler Temperature(s) °C and Other Remarks.		
Δ Yes Δ No					

Eurofins Carlsbad

1089 N Canal St.
Carlsbad NM 86220
Phone: 575-988-3199 Fax 575-988-3199

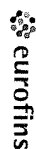
Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)						Sampler	Lab PM	Carrier Tracking No(s)	CCC No.											
Client Contact:						Simmons, Debbie			890-1145 2											
Shipping/Receiving						E-Mail	Debbie.Simmons@eurofins.com	State of Origin	Page 2 of 3											
Eurofins Environment Testing South Cent						Accreditations Required (See note):			Job #											
Address						Due Date Requested	NELAP - Louisiana NELAP - Texas													
City						TAT Requested (days)	Analysis Requested													
Midland																				
State Zip																				
TX, 79701																				
Phone						PO #:														
432-704-5440(Tel)						WO #:														
Email																				
Project Name:						Project #														
MCEIwain						89000118														
Site						SSOW#														
Sample Identification - Client ID (Lab ID)						Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=overhead, B=bottom, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8021B/6035FP_Calc BTEX-8021 (bulk jar)	8015MOD_NM/8015NM_S_Prep Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8015MOD_Calc	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note		
SW-56 (890-4172-10)						2/20/23	Mountain		Solid	X	X	X	X	X	X	X	X	1		
SW-57 (890-4172-11)						2/20/23	Mountain		Solid	X	X	X	X	X	X	X	X	1		
SW-58 (890-4172-12)						2/20/23	Mountain		Solid	X	X	X	X	X	X	X	X	1		
SW-59 (890-4172-13)						2/20/23	Mountain		Solid	X	X	X	X	X	X	X	X	1		
SW-60 (890-4172-14)						2/20/23	Mountain		Solid	X	X	X	X	X	X	X	X	1		
BH-37 (890-4172-15)						2/20/23	Mountain		Solid	X	X	X	X	X	X	X	X	1		
BH-38 (890-4172-16)						2/20/23	Mountain		Solid	X	X	X	X	X	X	X	X	1		
BH-39 (890-4172-17)						2/20/23	Mountain		Solid	X	X	X	X	X	X	X	X	1		
BH-40 (890-4172-18)						2/20/23	Mountain		Solid	X	X	X	X	X	X	X	X	1		
Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyze & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC																				
Possible Hazard Identification										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)										
Unconfirmed										☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months										
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2										Special Instructions/QC Requirements										
Empty Kit Relinquished by										Date	Time	Method of Shipment:								
Relinquished by										Date/Time		Company	Received by	Date/Time		Company				
Relinquished by										Date/Time		Company	Received by	Date/Time		Company				
Relinquished by										Date/Time		Company	Received by	Date/Time		Company				
Custody Seals Intact.										Custody Seal No	Cooler Temperature(s) °C and Other Remarks									
Δ Yes Δ No																				

Chain of Custody Record



Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-4172-1

SDG Number: 12592305

Login Number: 4172**List Number: 1****Creator: Clifton, Cloe****List Source: Eurofins Carlsbad**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
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	

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 890-4172-1

SDG Number: 12592305

Login Number: 4172

List Number: 2

Creator: Teel, Brianna

List Source: Eurofins Midland

List Creation: 02/23/23 11:07 AM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Stephen Asante-Ansong
GHD Services Inc.
11200 Richmond Ave
Suite 200
Houston, Texas 77082

Generated 3/28/2023 12:18:18 PM

JOB DESCRIPTION

Delek - McElvain
SDG NUMBER 12592305

JOB NUMBER

880-26159-1

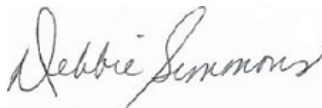
Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
3/28/2023 12:18:18 PM

Authorized for release by
Debbie Simmons, Project Manager
Debbie.Simmons@et.eurofinsus.com
(832)986-6768

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Laboratory Job ID: 880-26159-1
SDG: 12592305

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-26159-1
SDG: 12592305

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
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
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-26159-1
SDG: 12592305

Job ID: 880-26159-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-26159-1**

Receipt

The samples were received on 3/21/2023 10:00 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 3.2°C

Receipt Exceptions

The following samples analyzed for method <TPH 8015> were received and analyzed from an unpreserved bulk soil jar

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW-6A (880-26159-2), SW-61 (880-26159-3), SW-62 (880-26159-4), SW-63 (880-26159-5), SW-64 (880-26159-6), SW-65 (880-26159-7), SW-66 (880-26159-8), SW-67 (880-26159-9), SW-68 (880-26159-10), SW-69 (880-26159-11), SW-70 (880-26159-12), SW-71 (880-26159-13), SW-73 (880-26159-15) and SW-74 (880-26159-16). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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 surrogate recovery for the blank associated with preparation batch 880-49215 and analytical batch 880-49160 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-49215/2-A) and (LCSD 880-49215/3-A). Evidence of matrix interferences is not obvious.

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

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: Delek - McElvain

Job ID: 880-26159-1
SDG: 12592305

Client Sample ID: BH-5A

Lab Sample ID: 880-26159-1

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/22/23 15:54	03/28/23 01:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 15:54	03/28/23 01:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 15:54	03/28/23 01:48	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/22/23 15:54	03/28/23 01:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 15:54	03/28/23 01:48	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/22/23 15:54	03/28/23 01:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	03/22/23 15:54	03/28/23 01:48	1
1,4-Difluorobenzene (Surr)	90		70 - 130	03/22/23 15:54	03/28/23 01:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/28/23 12:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 11:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/22/23 13:15	03/22/23 21:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/23 13:15	03/22/23 21:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/22/23 13:15	03/22/23 21:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	03/22/23 13:15	03/22/23 21:48	1
o-Terphenyl	100		70 - 130	03/22/23 13:15	03/22/23 21:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.6		5.05		mg/Kg			03/24/23 01:22	1

Client Sample ID: SW-6A

Lab Sample ID: 880-26159-2

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/22/23 15:54	03/28/23 02:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 15:54	03/28/23 02:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 15:54	03/28/23 02:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/22/23 15:54	03/28/23 02:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 15:54	03/28/23 02:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/22/23 15:54	03/28/23 02:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130	03/22/23 15:54	03/28/23 02:14	1
1,4-Difluorobenzene (Surr)	83		70 - 130	03/22/23 15:54	03/28/23 02:14	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-26159-1
SDG: 12592305

Client Sample ID: SW-6A

Lab Sample ID: 880-26159-2

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/28/23 12:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/23/23 11:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/22/23 13:15	03/22/23 22:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/22/23 13:15	03/22/23 22:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/22/23 13:15	03/22/23 22:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				03/22/23 13:15	03/22/23 22:09	1
o-Terphenyl	104		70 - 130				03/22/23 13:15	03/22/23 22:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	70.8		5.02		mg/Kg			03/24/23 01:37	1

Client Sample ID: SW-61

Lab Sample ID: 880-26159-3

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/22/23 15:54	03/28/23 02:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/22/23 15:54	03/28/23 02:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/22/23 15:54	03/28/23 02:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/22/23 15:54	03/28/23 02:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/22/23 15:54	03/28/23 02:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/22/23 15:54	03/28/23 02:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130				03/22/23 15:54	03/28/23 02:41	1
1,4-Difluorobenzene (Surr)	84		70 - 130				03/22/23 15:54	03/28/23 02:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/28/23 12:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/23/23 11:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/22/23 13:15	03/22/23 22:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/22/23 13:15	03/22/23 22:31	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-26159-1
SDG: 12592305

Client Sample ID: SW-61

Lab Sample ID: 880-26159-3

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:00

Method: SW846 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)	<50.0	U	50.0		mg/Kg		03/22/23 13:15	03/22/23 22:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				03/22/23 13:15	03/22/23 22:31	1
o-Terphenyl	106		70 - 130				03/22/23 13:15	03/22/23 22:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	146		5.01		mg/Kg			03/24/23 01:42	1

Client Sample ID: SW-62

Lab Sample ID: 880-26159-4

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/22/23 15:54	03/28/23 03:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/22/23 15:54	03/28/23 03:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/22/23 15:54	03/28/23 03:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/22/23 15:54	03/28/23 03:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/22/23 15:54	03/28/23 03:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/22/23 15:54	03/28/23 03:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130				03/22/23 15:54	03/28/23 03:07	1
1,4-Difluorobenzene (Surr)	93		70 - 130				03/22/23 15:54	03/28/23 03:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/28/23 12:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 11:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/22/23 13:15	03/22/23 22:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/23 13:15	03/22/23 22:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/22/23 13:15	03/22/23 22:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				03/22/23 13:15	03/22/23 22:53	1
o-Terphenyl	95		70 - 130				03/22/23 13:15	03/22/23 22:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.7		5.04		mg/Kg			03/24/23 01:47	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-26159-1
SDG: 12592305

Client Sample ID: SW-63

Lab Sample ID: 880-26159-5

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/22/23 15:54	03/28/23 03:34	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/22/23 15:54	03/28/23 03:34	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/22/23 15:54	03/28/23 03:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/22/23 15:54	03/28/23 03:34	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/22/23 15:54	03/28/23 03:34	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/22/23 15:54	03/28/23 03:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130	03/22/23 15:54	03/28/23 03:34	1
1,4-Difluorobenzene (Surr)	99		70 - 130	03/22/23 15:54	03/28/23 03:34	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/28/23 12:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 11:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/22/23 13:15	03/22/23 23:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/23 13:15	03/22/23 23:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/22/23 13:15	03/22/23 23:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130	03/22/23 13:15	03/22/23 23:14	1
o-Terphenyl	112		70 - 130	03/22/23 13:15	03/22/23 23:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.57		4.98		mg/Kg			03/24/23 01:52	1

Client Sample ID: SW-64

Lab Sample ID: 880-26159-6

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/22/23 15:54	03/28/23 04:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/22/23 15:54	03/28/23 04:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/22/23 15:54	03/28/23 04:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/22/23 15:54	03/28/23 04:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/22/23 15:54	03/28/23 04:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/22/23 15:54	03/28/23 04:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	03/22/23 15:54	03/28/23 04:00	1
1,4-Difluorobenzene (Surr)	99		70 - 130	03/22/23 15:54	03/28/23 04:00	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-26159-1
SDG: 12592305

Client Sample ID: SW-64

Lab Sample ID: 880-26159-6

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/28/23 12:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/23/23 11:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/22/23 13:15	03/22/23 23:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/22/23 13:15	03/22/23 23:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/22/23 13:15	03/22/23 23:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				03/22/23 13:15	03/22/23 23:36	1
o-Terphenyl	91		70 - 130				03/22/23 13:15	03/22/23 23:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.6		5.00		mg/Kg			03/24/23 02:06	1

Client Sample ID: SW-65

Lab Sample ID: 880-26159-7

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/22/23 15:54	03/28/23 04:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/22/23 15:54	03/28/23 04:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/22/23 15:54	03/28/23 04:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/22/23 15:54	03/28/23 04:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/22/23 15:54	03/28/23 04:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/22/23 15:54	03/28/23 04:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130				03/22/23 15:54	03/28/23 04:27	1
1,4-Difluorobenzene (Surr)	100		70 - 130				03/22/23 15:54	03/28/23 04:27	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/28/23 12:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 11:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/22/23 13:15	03/22/23 23:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/23 13:15	03/22/23 23:57	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-26159-1
SDG: 12592305

Client Sample ID: SW-65

Lab Sample ID: 880-26159-7

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:00

Method: SW846 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)	<49.9	U	49.9		mg/Kg		03/22/23 13:15	03/22/23 23:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				03/22/23 13:15	03/22/23 23:57	1
o-Terphenyl	92		70 - 130				03/22/23 13:15	03/22/23 23:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.4		4.97		mg/Kg			03/24/23 02:11	1

Client Sample ID: SW-66

Lab Sample ID: 880-26159-8

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/22/23 15:54	03/28/23 04:53	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/22/23 15:54	03/28/23 04:53	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/22/23 15:54	03/28/23 04:53	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/22/23 15:54	03/28/23 04:53	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/22/23 15:54	03/28/23 04:53	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/22/23 15:54	03/28/23 04:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130				03/22/23 15:54	03/28/23 04:53	1
1,4-Difluorobenzene (Surr)	101		70 - 130				03/22/23 15:54	03/28/23 04:53	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/28/23 12:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 11:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/22/23 13:15	03/23/23 00:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/23 13:15	03/23/23 00:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/22/23 13:15	03/23/23 00:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				03/22/23 13:15	03/23/23 00:18	1
o-Terphenyl	93		70 - 130				03/22/23 13:15	03/23/23 00:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	128		5.03		mg/Kg			03/24/23 02:16	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-26159-1
SDG: 12592305

Client Sample ID: SW-67

Lab Sample ID: 880-26159-9

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/22/23 15:54	03/28/23 05:19	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/22/23 15:54	03/28/23 05:19	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/22/23 15:54	03/28/23 05:19	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/22/23 15:54	03/28/23 05:19	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/22/23 15:54	03/28/23 05:19	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/22/23 15:54	03/28/23 05:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	03/22/23 15:54	03/28/23 05:19	1
1,4-Difluorobenzene (Surr)	97		70 - 130	03/22/23 15:54	03/28/23 05:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/28/23 12:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/23/23 11:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/22/23 13:15	03/23/23 01:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/22/23 13:15	03/23/23 01:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/22/23 13:15	03/23/23 01:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	03/22/23 13:15	03/23/23 01:00	1
o-Terphenyl	93		70 - 130	03/22/23 13:15	03/23/23 01:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91.6		5.00		mg/Kg			03/24/23 02:21	1

Client Sample ID: SW-68

Lab Sample ID: 880-26159-10

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/22/23 15:54	03/28/23 05:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/22/23 15:54	03/28/23 05:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/22/23 15:54	03/28/23 05:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/22/23 15:54	03/28/23 05:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/22/23 15:54	03/28/23 05:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/22/23 15:54	03/28/23 05:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130	03/22/23 15:54	03/28/23 05:46	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/22/23 15:54	03/28/23 05:46	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-26159-1
SDG: 12592305

Client Sample ID: SW-68

Lab Sample ID: 880-26159-10

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/28/23 12:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/23/23 11:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/22/23 13:15	03/23/23 01:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/22/23 13:15	03/23/23 01:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/22/23 13:15	03/23/23 01:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				03/22/23 13:15	03/23/23 01:21	1
o-Terphenyl	86		70 - 130				03/22/23 13:15	03/23/23 01:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.0		5.02		mg/Kg			03/24/23 02:25	1

Client Sample ID: SW-69

Lab Sample ID: 880-26159-11

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/22/23 15:54	03/28/23 07:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/22/23 15:54	03/28/23 07:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/22/23 15:54	03/28/23 07:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/22/23 15:54	03/28/23 07:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/22/23 15:54	03/28/23 07:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/22/23 15:54	03/28/23 07:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130				03/22/23 15:54	03/28/23 07:34	1
1,4-Difluorobenzene (Surr)	81		70 - 130				03/22/23 15:54	03/28/23 07:34	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/28/23 12:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/23/23 11:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/22/23 13:15	03/23/23 01:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/22/23 13:15	03/23/23 01:42	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-26159-1
SDG: 12592305

Client Sample ID: SW-69

Lab Sample ID: 880-26159-11

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:00

Method: SW846 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)	<50.0	U	50.0		mg/Kg		03/22/23 13:15	03/23/23 01:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				03/22/23 13:15	03/23/23 01:42	1
o-Terphenyl	92		70 - 130				03/22/23 13:15	03/23/23 01:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.02	U	5.02		mg/Kg			03/24/23 02:30	1

Client Sample ID: SW-70

Lab Sample ID: 880-26159-12

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/22/23 15:54	03/28/23 08:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 15:54	03/28/23 08:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 15:54	03/28/23 08:01	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/22/23 15:54	03/28/23 08:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 15:54	03/28/23 08:01	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/22/23 15:54	03/28/23 08:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130				03/22/23 15:54	03/28/23 08:01	1
1,4-Difluorobenzene (Surr)	97		70 - 130				03/22/23 15:54	03/28/23 08:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/28/23 12:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 11:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/22/23 13:15	03/23/23 02:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/23 13:15	03/23/23 02:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/22/23 13:15	03/23/23 02:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				03/22/23 13:15	03/23/23 02:03	1
o-Terphenyl	93		70 - 130				03/22/23 13:15	03/23/23 02:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98		mg/Kg			03/24/23 02:45	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-26159-1
SDG: 12592305

Client Sample ID: SW-71

Lab Sample ID: 880-26159-13

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/22/23 15:54	03/28/23 08:28	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/22/23 15:54	03/28/23 08:28	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/22/23 15:54	03/28/23 08:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/22/23 15:54	03/28/23 08:28	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/22/23 15:54	03/28/23 08:28	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/22/23 15:54	03/28/23 08:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130	03/22/23 15:54	03/28/23 08:28	1
1,4-Difluorobenzene (Surr)	97		70 - 130	03/22/23 15:54	03/28/23 08:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/28/23 12:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 11:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/22/23 13:15	03/23/23 02:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/23 13:15	03/23/23 02:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/22/23 13:15	03/23/23 02:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	03/22/23 13:15	03/23/23 02:24	1
o-Terphenyl	91		70 - 130	03/22/23 13:15	03/23/23 02:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.8		4.96		mg/Kg			03/24/23 02:50	1

Client Sample ID: SW-72

Lab Sample ID: 880-26159-14

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/22/23 15:54	03/28/23 08:55	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/22/23 15:54	03/28/23 08:55	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/22/23 15:54	03/28/23 08:55	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/22/23 15:54	03/28/23 08:55	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/22/23 15:54	03/28/23 08:55	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/22/23 15:54	03/28/23 08:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	03/22/23 15:54	03/28/23 08:55	1
1,4-Difluorobenzene (Surr)	90		70 - 130	03/22/23 15:54	03/28/23 08:55	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-26159-1
SDG: 12592305

Client Sample ID: SW-72

Lab Sample ID: 880-26159-14

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/28/23 12:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/23/23 11:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/22/23 13:15	03/23/23 02:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/22/23 13:15	03/23/23 02:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/22/23 13:15	03/23/23 02:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				03/22/23 13:15	03/23/23 02:45	1
o-Terphenyl	89		70 - 130				03/22/23 13:15	03/23/23 02:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	94.7		5.00		mg/Kg			03/24/23 03:05	1

Client Sample ID: SW-73

Lab Sample ID: 880-26159-15

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/22/23 15:54	03/28/23 09:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/22/23 15:54	03/28/23 09:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/22/23 15:54	03/28/23 09:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/22/23 15:54	03/28/23 09:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/22/23 15:54	03/28/23 09:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/22/23 15:54	03/28/23 09:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130				03/22/23 15:54	03/28/23 09:22	1
1,4-Difluorobenzene (Surr)	90		70 - 130				03/22/23 15:54	03/28/23 09:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/28/23 12:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/23/23 11:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/22/23 13:15	03/23/23 03:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/22/23 13:15	03/23/23 03:06	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-26159-1
SDG: 12592305

Client Sample ID: SW-73

Lab Sample ID: 880-26159-15

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:00

Method: SW846 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)	<50.0	U	50.0		mg/Kg		03/22/23 13:15	03/23/23 03:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				03/22/23 13:15	03/23/23 03:06	1
o-Terphenyl	91		70 - 130				03/22/23 13:15	03/23/23 03:06	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.6		4.95		mg/Kg			03/24/23 03:10	1

Client Sample ID: SW-74

Lab Sample ID: 880-26159-16

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/22/23 15:54	03/28/23 09:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/22/23 15:54	03/28/23 09:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/22/23 15:54	03/28/23 09:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/22/23 15:54	03/28/23 09:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/22/23 15:54	03/28/23 09:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/22/23 15:54	03/28/23 09:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130				03/22/23 15:54	03/28/23 09:48	1
1,4-Difluorobenzene (Surr)	103		70 - 130				03/22/23 15:54	03/28/23 09:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/28/23 12:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/23 11:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/22/23 13:15	03/23/23 03:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/23 13:15	03/23/23 03:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/22/23 13:15	03/23/23 03:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				03/22/23 13:15	03/23/23 03:27	1
o-Terphenyl	91		70 - 130				03/22/23 13:15	03/23/23 03:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.6		4.95		mg/Kg			03/24/23 03:15	1

Eurofins Midland

Surrogate Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-26159-1
SDG: 12592305

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-26159-1	BH-5A	125	90
880-26159-1 MS	BH-5A	122	89
880-26159-1 MSD	BH-5A	130	126
880-26159-2	SW-6A	144 S1+	83
880-26159-3	SW-61	135 S1+	84
880-26159-4	SW-62	138 S1+	93
880-26159-5	SW-63	140 S1+	99
880-26159-6	SW-64	134 S1+	99
880-26159-7	SW-65	151 S1+	100
880-26159-8	SW-66	139 S1+	101
880-26159-9	SW-67	126	97
880-26159-10	SW-68	146 S1+	103
880-26159-11	SW-69	131 S1+	81
880-26159-12	SW-70	135 S1+	97
880-26159-13	SW-71	145 S1+	97
880-26159-14	SW-72	129	90
880-26159-15	SW-73	134 S1+	90
880-26159-16	SW-74	156 S1+	103
LCS 880-49229/1-A	Lab Control Sample	127	121
LCSD 880-49229/2-A	Lab Control Sample Dup	120	78
MB 880-49229/5-A	Method Blank	85	92
MB 880-49341/5-A	Method Blank	75	86
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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-26159-1	BH-5A	102	100
880-26159-2	SW-6A	105	104
880-26159-3	SW-61	106	106
880-26159-4	SW-62	97	95
880-26159-5	SW-63	117	112
880-26159-6	SW-64	94	91
880-26159-7	SW-65	95	92
880-26159-8	SW-66	94	93
880-26159-9	SW-67	93	93
880-26159-10	SW-68	90	86
880-26159-11	SW-69	94	92
880-26159-12	SW-70	93	93
880-26159-13	SW-71	96	91
880-26159-14	SW-72	91	89
880-26159-15	SW-73	95	91
880-26159-16	SW-74	94	91
LCS 880-49215/2-A	Lab Control Sample	145 S1+	137 S1+

Eurofins Midland

Surrogate Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-26159-1
SDG: 12592305

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
LCSD 880-49215/3-A	Lab Control Sample Dup	133 S1+	126
MB 880-49215/1-A	Method Blank	150 S1+	154 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-26159-1
SDG: 12592305

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49229/5-A

Matrix: Solid

Analysis Batch: 49563

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49229

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/22/23 15:54	03/28/23 01:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/23 15:54	03/28/23 01:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/23 15:54	03/28/23 01:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/22/23 15:54	03/28/23 01:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/23 15:54	03/28/23 01:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/22/23 15:54	03/28/23 01:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	03/22/23 15:54	03/28/23 01:21	1
1,4-Difluorobenzene (Surr)	92		70 - 130	03/22/23 15:54	03/28/23 01:21	1

Lab Sample ID: LCS 880-49229/1-A

Matrix: Solid

Analysis Batch: 49563

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49229

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1130		mg/Kg		113	70 - 130
Toluene	0.100	0.09600		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.1072		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	0.200	0.2198		mg/Kg		110	70 - 130
o-Xylene	0.100	0.1068		mg/Kg		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	121		70 - 130

Lab Sample ID: LCSD 880-49229/2-A

Matrix: Solid

Analysis Batch: 49563

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49229

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1005		mg/Kg		100	70 - 130	12	35
Toluene	0.100	0.1011		mg/Kg		101	70 - 130	5	35
Ethylbenzene	0.100	0.1085		mg/Kg		108	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2223		mg/Kg		111	70 - 130	1	35
o-Xylene	0.100	0.1089		mg/Kg		109	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	78		70 - 130

Lab Sample ID: 880-26159-1 MS

Matrix: Solid

Analysis Batch: 49563

Client Sample ID: BH-5A

Prep Type: Total/NA

Prep Batch: 49229

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1104		mg/Kg		110	70 - 130
Toluene	<0.00200	U	0.100	0.09977		mg/Kg		99	70 - 130

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QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-26159-1
SDG: 12592305

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

Lab Sample ID: 880-26159-1 MS

Matrix: Solid

Analysis Batch: 49563

Client Sample ID: BH-5A

Prep Type: Total/NA

Prep Batch: 49229

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.1046		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	<0.00401	U	0.201	0.2141		mg/Kg		107	70 - 130
o-Xylene	<0.00200	U	0.100	0.1028		mg/Kg		102	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 880-26159-1 MSD

Matrix: Solid

Analysis Batch: 49563

Client Sample ID: BH-5A

Prep Type: Total/NA

Prep Batch: 49229

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.1088		mg/Kg		110	70 - 130	1	35
Toluene	<0.00200	U	0.0990	0.09767		mg/Kg		99	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.0990	0.1048		mg/Kg		106	70 - 130	0	35
m-Xylene & p-Xylene	<0.00401	U	0.198	0.2159		mg/Kg		109	70 - 130	1	35
o-Xylene	<0.00200	U	0.0990	0.1032		mg/Kg		104	70 - 130	0	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	130		70 - 130
1,4-Difluorobenzene (Surr)	126		70 - 130

Lab Sample ID: MB 880-49341/5-A

Matrix: Solid

Analysis Batch: 49563

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49341

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/23/23 15:59	03/27/23 11:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/23/23 15:59	03/27/23 11:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/23/23 15:59	03/27/23 11:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/23/23 15:59	03/27/23 11:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/23/23 15:59	03/27/23 11:48	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/23/23 15:59	03/27/23 11:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	03/23/23 15:59	03/27/23 11:48	1
1,4-Difluorobenzene (Surr)	86		70 - 130	03/23/23 15:59	03/27/23 11:48	1

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

Lab Sample ID: MB 880-49215/1-A

Matrix: Solid

Analysis Batch: 49160

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49215

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/22/23 13:15	03/22/23 19:17	1

Eurofins Midland

QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-26159-1
SDG: 12592305

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

Lab Sample ID: MB 880-49215/1-A

Matrix: Solid

Analysis Batch: 49160

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49215

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/22/23 13:15	03/22/23 19:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/22/23 13:15	03/22/23 19:17	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	150	S1+	70 - 130				03/22/23 13:15	03/22/23 19:17	1
o-Terphenyl	154	S1+	70 - 130				03/22/23 13:15	03/22/23 19:17	1

Lab Sample ID: LCS 880-49215/2-A

Matrix: Solid

Analysis Batch: 49160

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49215

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	874.1		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	1000	964.5		mg/Kg		96	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	145	S1+	70 - 130				
o-Terphenyl	137	S1+	70 - 130				

Lab Sample ID: LCSD 880-49215/3-A

Matrix: Solid

Analysis Batch: 49160

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49215

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	817.7		mg/Kg		82	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	834.5		mg/Kg		83	70 - 130	14	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	133	S1+	70 - 130						
o-Terphenyl	126		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-49273/1-A

Matrix: Solid

Analysis Batch: 49440

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/24/23 01:08	1

Eurofins Midland

QC Sample Results

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-26159-1
SDG: 12592305

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-49273/2-A

Matrix: Solid

Analysis Batch: 49440

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	261.9		mg/Kg		105	90 - 110		

Lab Sample ID: LCSD 880-49273/3-A

Matrix: Solid

Analysis Batch: 49440

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	255.8		mg/Kg		102	90 - 110	2	20

Lab Sample ID: 880-26159-1 MS

Matrix: Solid

Analysis Batch: 49440

Client Sample ID: BH-5A

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	59.6		253	323.1		mg/Kg		104	90 - 110		

Lab Sample ID: 880-26159-1 MSD

Matrix: Solid

Analysis Batch: 49440

Client Sample ID: BH-5A

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	59.6		253	317.4		mg/Kg		102	90 - 110	2	20

Lab Sample ID: 880-26159-11 MS

Matrix: Solid

Analysis Batch: 49440

Client Sample ID: SW-69

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	<5.02	U	251	266.0		mg/Kg		105	90 - 110		

Lab Sample ID: 880-26159-11 MSD

Matrix: Solid

Analysis Batch: 49440

Client Sample ID: SW-69

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<5.02	U	251	256.4		mg/Kg		101	90 - 110	4	20

Eurofins Midland

QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-26159-1
SDG: 12592305

GC VOA

Prep Batch: 49229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26159-1	BH-5A	Total/NA	Solid	5035	
880-26159-2	SW-6A	Total/NA	Solid	5035	
880-26159-3	SW-61	Total/NA	Solid	5035	
880-26159-4	SW-62	Total/NA	Solid	5035	
880-26159-5	SW-63	Total/NA	Solid	5035	
880-26159-6	SW-64	Total/NA	Solid	5035	
880-26159-7	SW-65	Total/NA	Solid	5035	
880-26159-8	SW-66	Total/NA	Solid	5035	
880-26159-9	SW-67	Total/NA	Solid	5035	
880-26159-10	SW-68	Total/NA	Solid	5035	
880-26159-11	SW-69	Total/NA	Solid	5035	
880-26159-12	SW-70	Total/NA	Solid	5035	
880-26159-13	SW-71	Total/NA	Solid	5035	
880-26159-14	SW-72	Total/NA	Solid	5035	
880-26159-15	SW-73	Total/NA	Solid	5035	
880-26159-16	SW-74	Total/NA	Solid	5035	
MB 880-49229/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49229/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49229/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-26159-1 MS	BH-5A	Total/NA	Solid	5035	
880-26159-1 MSD	BH-5A	Total/NA	Solid	5035	

Prep Batch: 49341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-49341/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 49563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26159-1	BH-5A	Total/NA	Solid	8021B	49229
880-26159-2	SW-6A	Total/NA	Solid	8021B	49229
880-26159-3	SW-61	Total/NA	Solid	8021B	49229
880-26159-4	SW-62	Total/NA	Solid	8021B	49229
880-26159-5	SW-63	Total/NA	Solid	8021B	49229
880-26159-6	SW-64	Total/NA	Solid	8021B	49229
880-26159-7	SW-65	Total/NA	Solid	8021B	49229
880-26159-8	SW-66	Total/NA	Solid	8021B	49229
880-26159-9	SW-67	Total/NA	Solid	8021B	49229
880-26159-10	SW-68	Total/NA	Solid	8021B	49229
880-26159-11	SW-69	Total/NA	Solid	8021B	49229
880-26159-12	SW-70	Total/NA	Solid	8021B	49229
880-26159-13	SW-71	Total/NA	Solid	8021B	49229
880-26159-14	SW-72	Total/NA	Solid	8021B	49229
880-26159-15	SW-73	Total/NA	Solid	8021B	49229
880-26159-16	SW-74	Total/NA	Solid	8021B	49229
MB 880-49229/5-A	Method Blank	Total/NA	Solid	8021B	49229
MB 880-49341/5-A	Method Blank	Total/NA	Solid	8021B	49341
LCS 880-49229/1-A	Lab Control Sample	Total/NA	Solid	8021B	49229
LCSD 880-49229/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49229
880-26159-1 MS	BH-5A	Total/NA	Solid	8021B	49229
880-26159-1 MSD	BH-5A	Total/NA	Solid	8021B	49229

Eurofins Midland

QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-26159-1
SDG: 12592305

GC VOA

Analysis Batch: 49747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26159-1	BH-5A	Total/NA	Solid	Total BTEX	
880-26159-2	SW-6A	Total/NA	Solid	Total BTEX	
880-26159-3	SW-61	Total/NA	Solid	Total BTEX	
880-26159-4	SW-62	Total/NA	Solid	Total BTEX	
880-26159-5	SW-63	Total/NA	Solid	Total BTEX	
880-26159-6	SW-64	Total/NA	Solid	Total BTEX	
880-26159-7	SW-65	Total/NA	Solid	Total BTEX	
880-26159-8	SW-66	Total/NA	Solid	Total BTEX	
880-26159-9	SW-67	Total/NA	Solid	Total BTEX	
880-26159-10	SW-68	Total/NA	Solid	Total BTEX	
880-26159-11	SW-69	Total/NA	Solid	Total BTEX	
880-26159-12	SW-70	Total/NA	Solid	Total BTEX	
880-26159-13	SW-71	Total/NA	Solid	Total BTEX	
880-26159-14	SW-72	Total/NA	Solid	Total BTEX	
880-26159-15	SW-73	Total/NA	Solid	Total BTEX	
880-26159-16	SW-74	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 49160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26159-1	BH-5A	Total/NA	Solid	8015B NM	49215
880-26159-2	SW-6A	Total/NA	Solid	8015B NM	49215
880-26159-3	SW-61	Total/NA	Solid	8015B NM	49215
880-26159-4	SW-62	Total/NA	Solid	8015B NM	49215
880-26159-5	SW-63	Total/NA	Solid	8015B NM	49215
880-26159-6	SW-64	Total/NA	Solid	8015B NM	49215
880-26159-7	SW-65	Total/NA	Solid	8015B NM	49215
880-26159-8	SW-66	Total/NA	Solid	8015B NM	49215
880-26159-9	SW-67	Total/NA	Solid	8015B NM	49215
880-26159-10	SW-68	Total/NA	Solid	8015B NM	49215
880-26159-11	SW-69	Total/NA	Solid	8015B NM	49215
880-26159-12	SW-70	Total/NA	Solid	8015B NM	49215
880-26159-13	SW-71	Total/NA	Solid	8015B NM	49215
880-26159-14	SW-72	Total/NA	Solid	8015B NM	49215
880-26159-15	SW-73	Total/NA	Solid	8015B NM	49215
880-26159-16	SW-74	Total/NA	Solid	8015B NM	49215
MB 880-49215/1-A	Method Blank	Total/NA	Solid	8015B NM	49215
LCS 880-49215/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49215
LCSD 880-49215/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49215

Prep Batch: 49215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26159-1	BH-5A	Total/NA	Solid	8015NM Prep	
880-26159-2	SW-6A	Total/NA	Solid	8015NM Prep	
880-26159-3	SW-61	Total/NA	Solid	8015NM Prep	
880-26159-4	SW-62	Total/NA	Solid	8015NM Prep	
880-26159-5	SW-63	Total/NA	Solid	8015NM Prep	
880-26159-6	SW-64	Total/NA	Solid	8015NM Prep	
880-26159-7	SW-65	Total/NA	Solid	8015NM Prep	
880-26159-8	SW-66	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-26159-1
SDG: 12592305

GC Semi VOA (Continued)

Prep Batch: 49215 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26159-9	SW-67	Total/NA	Solid	8015NM Prep	
880-26159-10	SW-68	Total/NA	Solid	8015NM Prep	
880-26159-11	SW-69	Total/NA	Solid	8015NM Prep	
880-26159-12	SW-70	Total/NA	Solid	8015NM Prep	
880-26159-13	SW-71	Total/NA	Solid	8015NM Prep	
880-26159-14	SW-72	Total/NA	Solid	8015NM Prep	
880-26159-15	SW-73	Total/NA	Solid	8015NM Prep	
880-26159-16	SW-74	Total/NA	Solid	8015NM Prep	
MB 880-49215/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49215/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49215/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26159-1	BH-5A	Total/NA	Solid	8015 NM	
880-26159-2	SW-6A	Total/NA	Solid	8015 NM	
880-26159-3	SW-61	Total/NA	Solid	8015 NM	
880-26159-4	SW-62	Total/NA	Solid	8015 NM	
880-26159-5	SW-63	Total/NA	Solid	8015 NM	
880-26159-6	SW-64	Total/NA	Solid	8015 NM	
880-26159-7	SW-65	Total/NA	Solid	8015 NM	
880-26159-8	SW-66	Total/NA	Solid	8015 NM	
880-26159-9	SW-67	Total/NA	Solid	8015 NM	
880-26159-10	SW-68	Total/NA	Solid	8015 NM	
880-26159-11	SW-69	Total/NA	Solid	8015 NM	
880-26159-12	SW-70	Total/NA	Solid	8015 NM	
880-26159-13	SW-71	Total/NA	Solid	8015 NM	
880-26159-14	SW-72	Total/NA	Solid	8015 NM	
880-26159-15	SW-73	Total/NA	Solid	8015 NM	
880-26159-16	SW-74	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 49273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26159-1	BH-5A	Soluble	Solid	DI Leach	
880-26159-2	SW-6A	Soluble	Solid	DI Leach	
880-26159-3	SW-61	Soluble	Solid	DI Leach	
880-26159-4	SW-62	Soluble	Solid	DI Leach	
880-26159-5	SW-63	Soluble	Solid	DI Leach	
880-26159-6	SW-64	Soluble	Solid	DI Leach	
880-26159-7	SW-65	Soluble	Solid	DI Leach	
880-26159-8	SW-66	Soluble	Solid	DI Leach	
880-26159-9	SW-67	Soluble	Solid	DI Leach	
880-26159-10	SW-68	Soluble	Solid	DI Leach	
880-26159-11	SW-69	Soluble	Solid	DI Leach	
880-26159-12	SW-70	Soluble	Solid	DI Leach	
880-26159-13	SW-71	Soluble	Solid	DI Leach	
880-26159-14	SW-72	Soluble	Solid	DI Leach	
880-26159-15	SW-73	Soluble	Solid	DI Leach	
880-26159-16	SW-74	Soluble	Solid	DI Leach	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-26159-1
SDG: 12592305

HPLC/IC (Continued)

Leach Batch: 49273 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-49273/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49273/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49273/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-26159-1 MS	BH-5A	Soluble	Solid	DI Leach	
880-26159-1 MSD	BH-5A	Soluble	Solid	DI Leach	
880-26159-11 MS	SW-69	Soluble	Solid	DI Leach	
880-26159-11 MSD	SW-69	Soluble	Solid	DI Leach	

Analysis Batch: 49440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26159-1	BH-5A	Soluble	Solid	300.0	49273
880-26159-2	SW-6A	Soluble	Solid	300.0	49273
880-26159-3	SW-61	Soluble	Solid	300.0	49273
880-26159-4	SW-62	Soluble	Solid	300.0	49273
880-26159-5	SW-63	Soluble	Solid	300.0	49273
880-26159-6	SW-64	Soluble	Solid	300.0	49273
880-26159-7	SW-65	Soluble	Solid	300.0	49273
880-26159-8	SW-66	Soluble	Solid	300.0	49273
880-26159-9	SW-67	Soluble	Solid	300.0	49273
880-26159-10	SW-68	Soluble	Solid	300.0	49273
880-26159-11	SW-69	Soluble	Solid	300.0	49273
880-26159-12	SW-70	Soluble	Solid	300.0	49273
880-26159-13	SW-71	Soluble	Solid	300.0	49273
880-26159-14	SW-72	Soluble	Solid	300.0	49273
880-26159-15	SW-73	Soluble	Solid	300.0	49273
880-26159-16	SW-74	Soluble	Solid	300.0	49273
MB 880-49273/1-A	Method Blank	Soluble	Solid	300.0	49273
LCS 880-49273/2-A	Lab Control Sample	Soluble	Solid	300.0	49273
LCSD 880-49273/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49273
880-26159-1 MS	BH-5A	Soluble	Solid	300.0	49273
880-26159-1 MSD	BH-5A	Soluble	Solid	300.0	49273
880-26159-11 MS	SW-69	Soluble	Solid	300.0	49273
880-26159-11 MSD	SW-69	Soluble	Solid	300.0	49273

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-26159-1
SDG: 12592305

Client Sample ID: BH-5A

Lab Sample ID: 880-26159-1

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:00

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	49229	03/22/23 15:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49563	03/28/23 01:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49747	03/28/23 12:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			49315	03/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49215	03/22/23 13:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49160	03/22/23 21:48	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	49273	03/22/23 22:23	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49440	03/24/23 01:22	SMC	EET MID

Client Sample ID: SW-6A

Lab Sample ID: 880-26159-2

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:00

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	49229	03/22/23 15:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49563	03/28/23 02:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49747	03/28/23 12:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			49315	03/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49215	03/22/23 13:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49160	03/22/23 22:09	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	49273	03/22/23 22:23	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49440	03/24/23 01:37	SMC	EET MID

Client Sample ID: SW-61

Lab Sample ID: 880-26159-3

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:00

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	49229	03/22/23 15:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49563	03/28/23 02:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49747	03/28/23 12:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			49315	03/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49215	03/22/23 13:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49160	03/22/23 22:31	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	49273	03/22/23 22:23	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49440	03/24/23 01:42	SMC	EET MID

Client Sample ID: SW-62

Lab Sample ID: 880-26159-4

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:00

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	49229	03/22/23 15:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49563	03/28/23 03:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49747	03/28/23 12:55	SM	EET MID

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Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-26159-1
SDG: 12592305

Client Sample ID: SW-62

Lab Sample ID: 880-26159-4

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:00

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			49315	03/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49215	03/22/23 13:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49160	03/22/23 22:53	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	49273	03/22/23 22:23	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49440	03/24/23 01:47	SMC	EET MID

Client Sample ID: SW-63

Lab Sample ID: 880-26159-5

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:00

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	49229	03/22/23 15:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49563	03/28/23 03:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49747	03/28/23 12:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			49315	03/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49215	03/22/23 13:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49160	03/22/23 23:14	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	49273	03/22/23 22:23	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49440	03/24/23 01:52	SMC	EET MID

Client Sample ID: SW-64

Lab Sample ID: 880-26159-6

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:00

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	49229	03/22/23 15:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49563	03/28/23 04:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49747	03/28/23 12:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			49315	03/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49215	03/22/23 13:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49160	03/22/23 23:36	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	49273	03/22/23 22:23	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49440	03/24/23 02:06	SMC	EET MID

Client Sample ID: SW-65

Lab Sample ID: 880-26159-7

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:00

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	49229	03/22/23 15:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49563	03/28/23 04:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49747	03/28/23 12:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			49315	03/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49215	03/22/23 13:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49160	03/22/23 23:57	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-26159-1
SDG: 12592305

Client Sample ID: SW-65**Lab Sample ID: 880-26159-7****Date Collected: 03/15/23 00:00****Matrix: Solid****Date Received: 03/21/23 10:00**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	49273	03/22/23 22:23	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49440	03/24/23 02:11	SMC	EET MID

Client Sample ID: SW-66**Lab Sample ID: 880-26159-8****Date Collected: 03/15/23 00:00****Matrix: Solid****Date Received: 03/21/23 10:00**

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	49229	03/22/23 15:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49563	03/28/23 04:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49747	03/28/23 12:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			49315	03/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49215	03/22/23 13:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49160	03/23/23 00:18	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	49273	03/22/23 22:23	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49440	03/24/23 02:16	SMC	EET MID

Client Sample ID: SW-67**Lab Sample ID: 880-26159-9****Date Collected: 03/15/23 00:00****Matrix: Solid****Date Received: 03/21/23 10:00**

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	49229	03/22/23 15:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49563	03/28/23 05:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49747	03/28/23 12:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			49315	03/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49215	03/22/23 13:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49160	03/23/23 01:00	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	49273	03/22/23 22:23	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49440	03/24/23 02:21	SMC	EET MID

Client Sample ID: SW-68**Lab Sample ID: 880-26159-10****Date Collected: 03/15/23 00:00****Matrix: Solid****Date Received: 03/21/23 10:00**

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	49229	03/22/23 15:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49563	03/28/23 05:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49747	03/28/23 12:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			49315	03/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49215	03/22/23 13:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49160	03/23/23 01:21	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	49273	03/22/23 22:23	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49440	03/24/23 02:25	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-26159-1
SDG: 12592305

Client Sample ID: SW-69

Lab Sample ID: 880-26159-11

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:00

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	49229	03/22/23 15:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49563	03/28/23 07:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49747	03/28/23 12:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			49315	03/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49215	03/22/23 13:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49160	03/23/23 01:42	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	49273	03/22/23 22:23	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49440	03/24/23 02:30	SMC	EET MID

Client Sample ID: SW-70

Lab Sample ID: 880-26159-12

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:00

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	49229	03/22/23 15:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49563	03/28/23 08:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49747	03/28/23 12:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			49315	03/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49215	03/22/23 13:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49160	03/23/23 02:03	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	49273	03/22/23 22:23	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49440	03/24/23 02:45	SMC	EET MID

Client Sample ID: SW-71

Lab Sample ID: 880-26159-13

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:00

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	49229	03/22/23 15:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49563	03/28/23 08:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49747	03/28/23 12:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			49315	03/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49215	03/22/23 13:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49160	03/23/23 02:24	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	49273	03/22/23 22:23	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49440	03/24/23 02:50	SMC	EET MID

Client Sample ID: SW-72

Lab Sample ID: 880-26159-14

Date Collected: 03/15/23 00:00

Matrix: Solid

Date Received: 03/21/23 10:00

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	49229	03/22/23 15:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49563	03/28/23 08:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49747	03/28/23 12:55	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-26159-1
SDG: 12592305

Client Sample ID: SW-72
Date Collected: 03/15/23 00:00
Date Received: 03/21/23 10:00

Lab Sample ID: 880-26159-14
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			49315	03/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.031 g	10 mL	49215	03/22/23 13:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49160	03/23/23 02:45	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	49273	03/22/23 22:23	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49440	03/24/23 03:05	SMC	EET MID

Client Sample ID: SW-73
Date Collected: 03/15/23 00:00
Date Received: 03/21/23 10:00

Lab Sample ID: 880-26159-15
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	49229	03/22/23 15:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49563	03/28/23 09:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49747	03/28/23 12:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			49315	03/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49215	03/22/23 13:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49160	03/23/23 03:06	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	49273	03/22/23 22:23	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49440	03/24/23 03:10	SMC	EET MID

Client Sample ID: SW-74
Date Collected: 03/15/23 00:00
Date Received: 03/21/23 10:00

Lab Sample ID: 880-26159-16
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			5.03 g	5 mL	49229	03/22/23 15:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49563	03/28/23 09:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49747	03/28/23 12:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			49315	03/23/23 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49215	03/22/23 13:15	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49160	03/23/23 03:27	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	49273	03/22/23 22:23	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49440	03/24/23 03:15	SMC	EET MID

Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-26159-1
SDG: 12592305

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	T104704400-22-25	06-30-23

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

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

- 1
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Method Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-26159-1
SDG: 12592305

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

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- 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:

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

Sample Summary

Client: GHD Services Inc.
Project/Site: Delek - McElvain

Job ID: 880-26159-1
SDG: 12592305

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-26159-1	BH-5A	Solid	03/15/23 00:00	03/21/23 10:00
880-26159-2	SW-6A	Solid	03/15/23 00:00	03/21/23 10:00
880-26159-3	SW-61	Solid	03/15/23 00:00	03/21/23 10:00
880-26159-4	SW-62	Solid	03/15/23 00:00	03/21/23 10:00
880-26159-5	SW-63	Solid	03/15/23 00:00	03/21/23 10:00
880-26159-6	SW-64	Solid	03/15/23 00:00	03/21/23 10:00
880-26159-7	SW-65	Solid	03/15/23 00:00	03/21/23 10:00
880-26159-8	SW-66	Solid	03/15/23 00:00	03/21/23 10:00
880-26159-9	SW-67	Solid	03/15/23 00:00	03/21/23 10:00
880-26159-10	SW-68	Solid	03/15/23 00:00	03/21/23 10:00
880-26159-11	SW-69	Solid	03/15/23 00:00	03/21/23 10:00
880-26159-12	SW-70	Solid	03/15/23 00:00	03/21/23 10:00
880-26159-13	SW-71	Solid	03/15/23 00:00	03/21/23 10:00
880-26159-14	SW-72	Solid	03/15/23 00:00	03/21/23 10:00
880-26159-15	SW-73	Solid	03/15/23 00:00	03/21/23 10:00
880-26159-16	SW-74	Solid	03/15/23 00:00	03/21/23 10:00

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Environment Testing
Xenco

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

Chain of Custody



880-26159 Chain of Custody

Page 1 of 2
www.xenco.com

Project Manager	Stephen Asante-Ansong	Bill to (if different)	
Company Name	GHD	Company Name	
Address	6121 Indian School Rd NE St. 200	Address	
City, State ZIP	Albuquerque, NM 87110	City, State ZIP	
Phone	(281)366-7158	Email	Stephen.Asante-ansong@ghd.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables EDD ☐ ADAPT ☐ Other:	

[illegible][illegible]

Total	200.7 / 6010	200.8 / 6020:	
Circle Method(s) and Metal(s) to be analyzed	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 ₂
	Na	Str	Ti
	Sn	U	V
	Zn		
	8RCRA	Sb	As
	Ba	Be	Cd
	Cr	Co	Cu
	Pb	Mn	Mo
	Ni	Se	Ag
	Ti	U	
	Hq	1631 / 245.1 / 7470 / 7471	
	TC1P / SPLP	6010	8RCRA

Notice: Signature of this document a relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xencro. Its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xencro 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 Xencro. A minimum charge of \$35.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xencro, but not analyzed. These terms will be enforced unless previously negotiated with Eurofins Xencro. A minimum charge of \$35.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xencro, but not analyzed. These terms will be enforced unless previously negotiated with Eurofins Xencro.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 <i>D Sparks</i>	<i>[Signature]</i>	<i>3/21/23</i>	2		
3		<i>10.00</i>	4		
5			6		

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 880-26159-1

SDG Number: 12592305

Login Number: 26159

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Midland

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Stephen Asante-Ansong
GHD Services Inc.
11200 Richmond Ave
Suite 200
Houston, Texas 77082

Generated 4/25/2023 5:47:17 PM

JOB DESCRIPTION

McElvain
SDG NUMBER 12592305

JOB NUMBER

880-27468-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

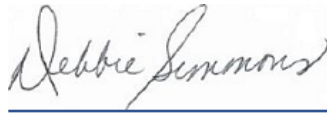
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
4/25/2023 5:47:17 PM

Authorized for release by
Debbie Simmons, Project Manager
Debbie.Simmons@et.eurofinsus.com
(832)986-6768

Client: GHD Services Inc.
Project/Site: McElvain

Laboratory Job ID: 880-27468-1
SDG: 12592305

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Definitions/Glossary

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

Qualifiers

GC 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.
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
B	Compound was found in the blank and sample.
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)

Eurofins Midland

Definitions/Glossary

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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

Case Narrative

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

Job ID: 880-27468-1

Laboratory: Eurofins Midland

Narrative

**Job Narrative
880-27468-1**

Comments

No additional comments.

Receipt

The samples were received on 4/21/2023 11:26 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 5.0° C.

Receipt Exceptions

The following samples analyzed for method <TPH 8015> were received and analyzed from an unpreserved bulk soil jar.

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-51664 recovered under the lower control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-51713 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-42 (880-27468-1), BH-43 (880-27468-2), BH-44 (880-27468-3), BH-45 (880-27468-4), BH-46 (880-27468-5), BH-47 (880-27468-6), BH-48 (880-27468-7), BH-50 (880-27468-9), BH-51 (880-27468-10), BH-52 (880-27468-11), BH-53 (880-27468-12), BH-54 (880-27468-13), BH-55 (880-27468-14), BH-56 (880-27468-15), BH-57 (880-27468-16), BH-58 (880-27468-17), BH-59 (880-27468-18), BH-60 (880-27468-19), BH-61 (880-27468-20), (LCS 880-51701/1-A), (LCSD 880-51701/2-A), (880-27468-A-1-A MS) and (880-27468-A-1-B MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The method blank for preparation batch 880-51667 and analytical batch 880-51665 contained Toluene above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction and re-analysis of samples was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-51664 recovered under the lower control limit for Benzene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.

(CCV 880-51664/51)

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-42 (880-27468-1) and BH-52 (880-27468-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: SW-73 (880-27468-24). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015B NM: The method blank for preparation batch 880-51720 and analytical batch 880-51776 contained Gasoline Range Organics (GRO)-C6-C10, Diesel Range Organics (Over C10-C28) and Total TPH above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction and re-analysis of samples was not performed.

Method 8015B NM: Surrogate recovery for the following sample was outside control limits: BH-54 (880-27468-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Case Narrative

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

Job ID: 880-27468-1 (Continued)

Laboratory: Eurofins Midland (Continued)

Method 8015B NM: The surrogate recovery for the blank associated with preparation batch 880-51739 and analytical batch 880-51778 was outside the upper control limits.

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: BH-56 (880-27468-15) and BH-61 (880-27468-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015B NM: The surrogate recovery for the blank associated with preparation batch 880-51760 and analytical batch 880-51778 was outside the upper control limits.

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: BH-63 (880-27468-22) and SW-72 (880-27468-23). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015B NM: The method blank for preparation batch 880-51760 and analytical batch 880-51778 contained Oil Range Organics (Over C28-C36) 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.

General Chemistry

Method 300.0: The instrument blank for analytical batch 880-51881 contained Chloride greater than one-half the reporting limit (RL), and were not re-analyzed because all associated sample results were greater than 10 times the instrument blank detection. The data have been qualified and reported.

BH-62 (880-27468-21), BH-63 (880-27468-22), SW-72 (880-27468-23), SW-73 (880-27468-24) and (MB 880-51741/1-A)

Method 300.0: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-51741 and 880-51741 and analytical batch 880-51881 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

The associated samples are: BH-62 (880-27468-21), BH-63 (880-27468-22), SW-72 (880-27468-23), SW-73 (880-27468-24), (880-27468-A-21-C MS) and (880-27468-A-21-D MSD).

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: McElvain

Job ID: 880-27468-1
SDG: 12592305

Client Sample ID: BH-42

Lab Sample ID: 880-27468-1

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

Method: SW846 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		04/24/23 11:53	04/25/23 02:17	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		04/21/23 11:56	04/21/23 16:45	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		04/21/23 11:56	04/21/23 16:45	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		04/21/23 11:56	04/21/23 16:45	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		04/21/23 11:56	04/21/23 16:45	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		04/21/23 11:56	04/21/23 16:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130	04/21/23 11:56	04/21/23 16:45	1
1,4-Difluorobenzene (Surr)	70		70 - 130	04/21/23 11:56	04/21/23 16:45	1

Method: TAL SOP 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			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	63.8		49.9	15.0	mg/Kg			04/24/23 12:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	28.0	J	49.9	15.0	mg/Kg		04/21/23 14:33	04/22/23 11:40	1
Diesel Range Organics (Over C10-C28)	20.8	J	49.9	15.0	mg/Kg		04/21/23 14:33	04/22/23 11:40	1
Oil Range Organics (Over C28-C36)	15.0	J	49.9	15.0	mg/Kg		04/21/23 14:33	04/22/23 11:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	04/21/23 14:33	04/22/23 11:40	1
o-Terphenyl	114		70 - 130	04/21/23 14:33	04/22/23 11:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.4		5.00	0.395	mg/Kg			04/25/23 00:08	1

Client Sample ID: BH-43

Lab Sample ID: 880-27468-2

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

Method: SW846 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		04/24/23 11:53	04/25/23 02:38	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		04/21/23 11:56	04/21/23 17:11	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		04/21/23 11:56	04/21/23 17:11	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		04/21/23 11:56	04/21/23 17:11	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		04/21/23 11:56	04/21/23 17:11	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		04/21/23 11:56	04/21/23 17:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	148	S1+	70 - 130	04/21/23 11:56	04/21/23 17:11	1
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130	04/21/23 11:56	04/21/23 17:11	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

Client Sample ID: BH-43

Lab Sample ID: 880-27468-2

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

Method: TAL SOP 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			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	50.0	J	49.8	14.9	mg/Kg			04/24/23 12:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	15.7	J	49.8	14.9	mg/Kg		04/21/23 14:33	04/22/23 12:45	1
Diesel Range Organics (Over C10-C28)	34.3	J	49.8	14.9	mg/Kg		04/21/23 14:33	04/22/23 12:45	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		04/21/23 14:33	04/22/23 12:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				04/21/23 14:33	04/22/23 12:45	1
o-Terphenyl	124		70 - 130				04/21/23 14:33	04/22/23 12:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.7		5.01	0.396	mg/Kg			04/25/23 00:22	1

Client Sample ID: BH-44

Lab Sample ID: 880-27468-3

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

Method: SW846 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		04/21/23 11:56	04/21/23 17:38	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		04/21/23 11:56	04/21/23 17:38	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		04/21/23 11:56	04/21/23 17:38	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		04/21/23 11:56	04/21/23 17:38	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		04/21/23 11:56	04/21/23 17:38	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		04/21/23 11:56	04/21/23 17:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	175	S1+	70 - 130				04/21/23 11:56	04/21/23 17:38	1
1,4-Difluorobenzene (Surr)	82		70 - 130				04/21/23 11:56	04/21/23 17:38	1

Method: TAL SOP 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			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	49.0	J	49.9	15.0	mg/Kg			04/24/23 12:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	15.5	J	49.9	15.0	mg/Kg		04/21/23 14:33	04/22/23 13:07	1
Diesel Range Organics (Over C10-C28)	18.5	J	49.9	15.0	mg/Kg		04/21/23 14:33	04/22/23 13:07	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

Client Sample ID: BH-44

Lab Sample ID: 880-27468-3

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

Method: SW846 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	J	49.9	15.0	mg/Kg	-	04/21/23 14:33	04/22/23 13:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				04/21/23 14:33	04/22/23 13:07	1
o-Terphenyl	122		70 - 130				04/21/23 14:33	04/22/23 13:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39.2		5.03	0.397	mg/Kg	-		04/25/23 00:27	1

Client Sample ID: BH-45

Lab Sample ID: 880-27468-4

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

Method: SW846 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	-	04/24/23 11:53	04/25/23 04:00	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg	-	04/21/23 11:56	04/21/23 18:04	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg	-	04/21/23 11:56	04/21/23 18:04	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg	-	04/21/23 11:56	04/21/23 18:04	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg	-	04/21/23 11:56	04/21/23 18:04	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg	-	04/21/23 11:56	04/21/23 18:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130				04/21/23 11:56	04/21/23 18:04	1
1,4-Difluorobenzene (Surr)	77		70 - 130				04/21/23 11:56	04/21/23 18:04	1

Method: TAL SOP 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	-		04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	85.9		50.0	15.0	mg/Kg	-		04/24/23 12:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	44.9	J	50.0	15.0	mg/Kg	-	04/21/23 14:33	04/22/23 13:28	1
Diesel Range Organics (Over C10-C28)	41.0	J	50.0	15.0	mg/Kg	-	04/21/23 14:33	04/22/23 13:28	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg	-	04/21/23 14:33	04/22/23 13:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				04/21/23 14:33	04/22/23 13:28	1
o-Terphenyl	115		70 - 130				04/21/23 14:33	04/22/23 13:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	56.1		4.98	0.393	mg/Kg	-		04/25/23 00:31	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

Client Sample ID: BH-46

Lab Sample ID: 880-27468-5

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

Method: SW846 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		04/21/23 11:56	04/21/23 18:30	1
Toluene	<0.000459	U	0.00201	0.000459	mg/Kg		04/21/23 11:56	04/21/23 18:30	1
Ethylbenzene	<0.000568	U	0.00201	0.000568	mg/Kg		04/21/23 11:56	04/21/23 18:30	1
m-Xylene & p-Xylene	<0.00102	U	0.00402	0.00102	mg/Kg		04/21/23 11:56	04/21/23 18:30	1
o-Xylene	<0.000346	U	0.00201	0.000346	mg/Kg		04/21/23 11:56	04/21/23 18:30	1
Xylenes, Total	<0.00102	U	0.00402	0.00102	mg/Kg		04/21/23 11:56	04/21/23 18:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	166	S1+	70 - 130	04/21/23 11:56	04/21/23 18:30	1
1,4-Difluorobenzene (Surr)	80		70 - 130	04/21/23 11:56	04/21/23 18:30	1

Method: TAL SOP 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			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	139		49.9	15.0	mg/Kg			04/24/23 12:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	41.7	J	49.9	15.0	mg/Kg		04/21/23 14:33	04/22/23 13:50	1
Diesel Range Organics (Over C10-C28)	72.1		49.9	15.0	mg/Kg		04/21/23 14:33	04/22/23 13:50	1
Oil Range Organics (Over C28-C36)	24.7	J	49.9	15.0	mg/Kg		04/21/23 14:33	04/22/23 13:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	04/21/23 14:33	04/22/23 13:50	1
o-Terphenyl	129		70 - 130	04/21/23 14:33	04/22/23 13:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	155		5.02	0.397	mg/Kg			04/25/23 00:36	1

Client Sample ID: BH-47

Lab Sample ID: 880-27468-6

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

Method: SW846 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		04/24/23 11:53	04/25/23 04:21	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		04/21/23 11:56	04/21/23 18:56	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		04/21/23 11:56	04/21/23 18:56	1
m-Xylene & p-Xylene	0.00230	J	0.00399	0.00101	mg/Kg		04/24/23 11:53	04/25/23 04:21	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		04/21/23 11:56	04/21/23 18:56	1
Xylenes, Total	0.00419		0.00401	0.00101	mg/Kg		04/21/23 11:56	04/21/23 18:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130	04/21/23 11:56	04/21/23 18:56	1
1,4-Difluorobenzene (Surr)	73		70 - 130	04/21/23 11:56	04/21/23 18:56	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

Client Sample ID: BH-47

Lab Sample ID: 880-27468-6

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00230	J	0.00399	0.00101	mg/Kg			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	78.8		50.0	15.0	mg/Kg			04/24/23 12:49	1

Method: SW846 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	50.0	15.0	mg/Kg		04/21/23 14:33	04/22/23 14:12	1
Diesel Range Organics (Over C10-C28)	22.9	J	50.0	15.0	mg/Kg		04/21/23 14:33	04/22/23 14:12	1
Oil Range Organics (Over C28-C36)	22.2	J	50.0	15.0	mg/Kg		04/21/23 14:33	04/22/23 14:12	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				04/21/23 14:33	04/22/23 14:12	1
o-Terphenyl	108		70 - 130				04/21/23 14:33	04/22/23 14:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81.0		5.05	0.399	mg/Kg			04/25/23 00:50	1

Client Sample ID: BH-48

Lab Sample ID: 880-27468-7

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

Method: SW846 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		04/21/23 11:56	04/21/23 19:22	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		04/21/23 11:56	04/21/23 19:22	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		04/21/23 11:56	04/21/23 19:22	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		04/21/23 11:56	04/21/23 19:22	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		04/21/23 11:56	04/21/23 19:22	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		04/21/23 11:56	04/21/23 19:22	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130				04/21/23 11:56	04/21/23 19:22	1
1,4-Difluorobenzene (Surr)	64	S1-	70 - 130				04/21/23 11:56	04/21/23 19:22	1

Method: TAL SOP 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			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	71.6		50.0	15.0	mg/Kg			04/24/23 12:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	27.2	J	50.0	15.0	mg/Kg		04/21/23 14:33	04/22/23 14:34	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

Client Sample ID: BH-48

Lab Sample ID: 880-27468-7

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

Method: SW846 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)	23.2	J	50.0	15.0	mg/Kg		04/21/23 14:33	04/22/23 14:34	1
Oil Range Organics (Over C28-C36)	21.2	J	50.0	15.0	mg/Kg		04/21/23 14:33	04/22/23 14:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				04/21/23 14:33	04/22/23 14:34	1
o-Terphenyl	126		70 - 130				04/21/23 14:33	04/22/23 14:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1120		5.04	0.398	mg/Kg			04/25/23 00:54	1

Client Sample ID: BH-49

Lab Sample ID: 880-27468-8

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

Method: SW846 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		04/21/23 11:56	04/21/23 19:49	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		04/21/23 11:56	04/21/23 19:49	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		04/21/23 11:56	04/21/23 19:49	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		04/21/23 11:56	04/21/23 19:49	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		04/21/23 11:56	04/21/23 19:49	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		04/21/23 11:56	04/21/23 19:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				04/21/23 11:56	04/21/23 19:49	1
1,4-Difluorobenzene (Surr)	62	S1-	70 - 130				04/21/23 11:56	04/21/23 19:49	1

Method: TAL SOP 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			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	65.4		49.8	14.9	mg/Kg			04/24/23 12:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	19.9	J	49.8	14.9	mg/Kg		04/21/23 14:33	04/22/23 14:55	1
Diesel Range Organics (Over C10-C28)	45.5	J	49.8	14.9	mg/Kg		04/21/23 14:33	04/22/23 14:55	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		04/21/23 14:33	04/22/23 14:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				04/21/23 14:33	04/22/23 14:55	1
o-Terphenyl	130		70 - 130				04/21/23 14:33	04/22/23 14:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	222		4.98	0.393	mg/Kg			04/25/23 00:59	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

Client Sample ID: BH-50

Lab Sample ID: 880-27468-9

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

Method: SW846 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		04/24/23 11:53	04/25/23 04:41	1
Toluene	<0.000458	U	0.00201	0.000458	mg/Kg		04/21/23 11:56	04/21/23 20:15	1
Ethylbenzene	<0.000567	U	0.00201	0.000567	mg/Kg		04/21/23 11:56	04/21/23 20:15	1
m-Xylene & p-Xylene	<0.00101	U	0.00402	0.00101	mg/Kg		04/21/23 11:56	04/21/23 20:15	1
o-Xylene	<0.000345	U	0.00201	0.000345	mg/Kg		04/21/23 11:56	04/21/23 20:15	1
Xylenes, Total	<0.00101	U	0.00402	0.00101	mg/Kg		04/21/23 11:56	04/21/23 20:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130	04/21/23 11:56	04/21/23 20:15	1
1,4-Difluorobenzene (Surr)	74		70 - 130	04/21/23 11:56	04/21/23 20:15	1

Method: TAL SOP 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			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	56.1		49.9	15.0	mg/Kg			04/24/23 12:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	17.5	J	49.9	15.0	mg/Kg		04/21/23 14:33	04/22/23 15:17	1
Diesel Range Organics (Over C10-C28)	21.5	J	49.9	15.0	mg/Kg		04/21/23 14:33	04/22/23 15:17	1
Oil Range Organics (Over C28-C36)	17.1	J	49.9	15.0	mg/Kg		04/21/23 14:33	04/22/23 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	04/21/23 14:33	04/22/23 15:17	1
o-Terphenyl	121		70 - 130	04/21/23 14:33	04/22/23 15:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57.3		4.95	0.391	mg/Kg			04/25/23 01:03	1

Client Sample ID: BH-51

Lab Sample ID: 880-27468-10

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

Method: SW846 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		04/21/23 11:56	04/21/23 20:41	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		04/21/23 11:56	04/21/23 20:41	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		04/21/23 11:56	04/21/23 20:41	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		04/21/23 11:56	04/21/23 20:41	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		04/21/23 11:56	04/21/23 20:41	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		04/21/23 11:56	04/21/23 20:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130	04/21/23 11:56	04/21/23 20:41	1
1,4-Difluorobenzene (Surr)	74		70 - 130	04/21/23 11:56	04/21/23 20:41	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

Client Sample ID: BH-51

Lab Sample ID: 880-27468-10

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

Method: TAL SOP 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			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	63.1		49.9	15.0	mg/Kg			04/24/23 12:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	28.7	J	49.9	15.0	mg/Kg		04/21/23 14:33	04/22/23 15:39	1
Diesel Range Organics (Over C10-C28)	17.2	J	49.9	15.0	mg/Kg		04/21/23 14:33	04/22/23 15:39	1
Oil Range Organics (Over C28-C36)	17.2	J	49.9	15.0	mg/Kg		04/21/23 14:33	04/22/23 15:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				04/21/23 14:33	04/22/23 15:39	1
o-Terphenyl	109		70 - 130				04/21/23 14:33	04/22/23 15:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.5		5.04	0.398	mg/Kg			04/25/23 01:08	1

Client Sample ID: BH-52

Lab Sample ID: 880-27468-11

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

Method: SW846 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		04/24/23 11:53	04/25/23 05:02	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		04/21/23 11:56	04/21/23 22:26	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		04/21/23 11:56	04/21/23 22:26	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		04/24/23 11:53	04/25/23 05:02	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		04/21/23 11:56	04/21/23 22:26	1
Xylenes, Total	0.00339	J	0.00398	0.00100	mg/Kg		04/21/23 11:56	04/21/23 22:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				04/24/23 11:53	04/25/23 05:02	1
1,4-Difluorobenzene (Surr)	70		70 - 130				04/24/23 11:53	04/25/23 05:02	1

Method: TAL SOP 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			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	81.3		50.0	15.0	mg/Kg			04/24/23 12:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	48.4	J	50.0	15.0	mg/Kg		04/21/23 14:33	04/22/23 16:21	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

Client Sample ID: BH-52

Lab Sample ID: 880-27468-11

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

Method: SW846 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)	17.2	J	50.0	15.0	mg/Kg		04/21/23 14:33	04/22/23 16:21	1
Oil Range Organics (Over C28-C36)	15.7	J	50.0	15.0	mg/Kg		04/21/23 14:33	04/22/23 16:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				04/21/23 14:33	04/22/23 16:21	1
o-Terphenyl	103		70 - 130				04/21/23 14:33	04/22/23 16:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	516		5.01	0.396	mg/Kg			04/25/23 01:12	1

Client Sample ID: BH-53

Lab Sample ID: 880-27468-12

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

Method: SW846 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		04/21/23 11:56	04/21/23 22:52	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		04/21/23 11:56	04/21/23 22:52	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		04/21/23 11:56	04/21/23 22:52	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		04/21/23 11:56	04/21/23 22:52	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		04/21/23 11:56	04/21/23 22:52	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		04/21/23 11:56	04/21/23 22:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	154	S1+	70 - 130				04/21/23 11:56	04/21/23 22:52	1
1,4-Difluorobenzene (Surr)	75		70 - 130				04/21/23 11:56	04/21/23 22:52	1

Method: TAL SOP 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			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	59.2		50.0	15.0	mg/Kg			04/24/23 12:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	19.2	J	50.0	15.0	mg/Kg		04/21/23 14:33	04/22/23 16:42	1
Diesel Range Organics (Over C10-C28)	21.4	J	50.0	15.0	mg/Kg		04/21/23 14:33	04/22/23 16:42	1
Oil Range Organics (Over C28-C36)	18.6	J	50.0	15.0	mg/Kg		04/21/23 14:33	04/22/23 16:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				04/21/23 14:33	04/22/23 16:42	1
o-Terphenyl	130		70 - 130				04/21/23 14:33	04/22/23 16:42	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

Client Sample ID: BH-53

Lab Sample ID: 880-27468-12

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	865		4.97	0.393	mg/Kg			04/25/23 01:26	1

Client Sample ID: BH-54

Lab Sample ID: 880-27468-13

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

Method: SW846 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		04/21/23 11:56	04/21/23 23:18	1
Toluene	<0.000457	U	0.00200	0.000457	mg/Kg		04/21/23 11:56	04/21/23 23:18	1
Ethylbenzene	<0.000566	U	0.00200	0.000566	mg/Kg		04/21/23 11:56	04/21/23 23:18	1
m-Xylene & p-Xylene	<0.00101	U	0.00401	0.00101	mg/Kg		04/21/23 11:56	04/21/23 23:18	1
o-Xylene	<0.000345	U	0.00200	0.000345	mg/Kg		04/21/23 11:56	04/21/23 23:18	1
Xylenes, Total	<0.00101	U	0.00401	0.00101	mg/Kg		04/21/23 11:56	04/21/23 23:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130				04/21/23 11:56	04/21/23 23:18	1
1,4-Difluorobenzene (Surr)	71		70 - 130				04/21/23 11:56	04/21/23 23:18	1

Method: TAL SOP 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			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	69.7		49.9	15.0	mg/Kg			04/24/23 12:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	29.5	J	49.9	15.0	mg/Kg		04/21/23 14:33	04/22/23 17:03	1
Diesel Range Organics (Over C10-C28)	23.8	J	49.9	15.0	mg/Kg		04/21/23 14:33	04/22/23 17:03	1
Oil Range Organics (Over C28-C36)	16.4	J	49.9	15.0	mg/Kg		04/21/23 14:33	04/22/23 17:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				04/21/23 14:33	04/22/23 17:03	1
o-Terphenyl	131	S1+	70 - 130				04/21/23 14:33	04/22/23 17:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	236		4.96	0.392	mg/Kg			04/25/23 01:31	1

Client Sample ID: BH-55

Lab Sample ID: 880-27468-14

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

Method: SW846 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		04/21/23 11:56	04/21/23 23:44	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		04/21/23 11:56	04/21/23 23:44	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		04/21/23 11:56	04/21/23 23:44	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

Client Sample ID: BH-55

Lab Sample ID: 880-27468-14

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		04/21/23 11:56	04/21/23 23:44	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		04/21/23 11:56	04/21/23 23:44	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		04/21/23 11:56	04/21/23 23:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130				04/21/23 11:56	04/21/23 23:44	1
1,4-Difluorobenzene (Surr)	74		70 - 130				04/21/23 11:56	04/21/23 23:44	1

Method: TAL SOP 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			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	67.0		49.8	14.9	mg/Kg			04/24/23 12:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	30.6	J	49.8	14.9	mg/Kg		04/21/23 14:33	04/22/23 17:25	1
Diesel Range Organics (Over C10-C28)	18.3	J	49.8	14.9	mg/Kg		04/21/23 14:33	04/22/23 17:25	1
Oil Range Organics (Over C28-C36)	18.1	J	49.8	14.9	mg/Kg		04/21/23 14:33	04/22/23 17:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				04/21/23 14:33	04/22/23 17:25	1
o-Terphenyl	110		70 - 130				04/21/23 14:33	04/22/23 17:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	117		5.00	0.395	mg/Kg			04/25/23 01:44	1

Client Sample ID: BH-56

Lab Sample ID: 880-27468-15

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

Method: SW846 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		04/21/23 11:56	04/22/23 00:10	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		04/21/23 11:56	04/22/23 00:10	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		04/21/23 11:56	04/22/23 00:10	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		04/21/23 11:56	04/22/23 00:10	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		04/21/23 11:56	04/22/23 00:10	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		04/21/23 11:56	04/22/23 00:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	150	S1+	70 - 130				04/21/23 11:56	04/22/23 00:10	1
1,4-Difluorobenzene (Surr)	66	S1-	70 - 130				04/21/23 11:56	04/22/23 00:10	1

Method: TAL SOP 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			04/24/23 15:27	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

Client Sample ID: BH-56

Lab Sample ID: 880-27468-15

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	79.2		49.8	14.9	mg/Kg			04/24/23 12:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	34.9	J	49.8	14.9	mg/Kg		04/21/23 14:33	04/22/23 17:46	1
Diesel Range Organics (Over C10-C28)	26.1	J	49.8	14.9	mg/Kg		04/21/23 14:33	04/22/23 17:46	1
Oil Range Organics (Over C28-C36)	18.2	J	49.8	14.9	mg/Kg		04/21/23 14:33	04/22/23 17:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				04/21/23 14:33	04/22/23 17:46	1
o-Terphenyl	139	S1+	70 - 130				04/21/23 14:33	04/22/23 17:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	203		5.03	0.397	mg/Kg			04/25/23 01:49	1

Client Sample ID: BH-57

Lab Sample ID: 880-27468-16

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

Method: SW846 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		04/21/23 11:56	04/22/23 00:37	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		04/21/23 11:56	04/22/23 00:37	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		04/21/23 11:56	04/22/23 00:37	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		04/21/23 11:56	04/22/23 00:37	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		04/21/23 11:56	04/22/23 00:37	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		04/21/23 11:56	04/22/23 00:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	171	S1+	70 - 130				04/21/23 11:56	04/22/23 00:37	1
1,4-Difluorobenzene (Surr)	78		70 - 130				04/21/23 11:56	04/22/23 00:37	1

Method: TAL SOP 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			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	63.2		50.0	15.0	mg/Kg			04/24/23 12:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	26.3	J	50.0	15.0	mg/Kg		04/21/23 14:33	04/22/23 18:08	1
Diesel Range Organics (Over C10-C28)	20.7	J	50.0	15.0	mg/Kg		04/21/23 14:33	04/22/23 18:08	1
Oil Range Organics (Over C28-C36)	16.2	J	50.0	15.0	mg/Kg		04/21/23 14:33	04/22/23 18:08	1

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Client Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

Client Sample ID: BH-57

Date Collected: 04/14/23 00:00

Date Received: 04/21/23 11:26

Lab Sample ID: 880-27468-16

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	04/21/23 14:33	04/22/23 18:08	1
o-Terphenyl	124		70 - 130	04/21/23 14:33	04/22/23 18:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1120		4.99	0.394	mg/Kg			04/25/23 01:53	1

Client Sample ID: BH-58

Date Collected: 04/14/23 00:00

Date Received: 04/21/23 11:26

Lab Sample ID: 880-27468-17

Matrix: Solid

Method: SW846 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		04/21/23 11:56	04/22/23 01:03	1
Toluene	<0.000454	U	0.00199	0.000454	mg/Kg		04/21/23 11:56	04/22/23 01:03	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		04/21/23 11:56	04/22/23 01:03	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		04/21/23 11:56	04/22/23 01:03	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		04/21/23 11:56	04/22/23 01:03	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		04/21/23 11:56	04/22/23 01:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	170	S1+	70 - 130				04/21/23 11:56	04/22/23 01:03	1
1,4-Difluorobenzene (Surr)	78		70 - 130				04/21/23 11:56	04/22/23 01:03	1

Method: TAL SOP 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			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	60.9		49.9	15.0	mg/Kg			04/24/23 12:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	23.5	J	49.9	15.0	mg/Kg		04/21/23 14:33	04/22/23 18:29	1
Diesel Range Organics (Over C10-C28)	22.0	J	49.9	15.0	mg/Kg		04/21/23 14:33	04/22/23 18:29	1
Oil Range Organics (Over C28-C36)	15.4	J	49.9	15.0	mg/Kg		04/21/23 14:33	04/22/23 18:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				04/21/23 14:33	04/22/23 18:29	1
o-Terphenyl	125		70 - 130				04/21/23 14:33	04/22/23 18:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.5		4.96	0.392	mg/Kg			04/25/23 01:58	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

Client Sample ID: BH-59

Lab Sample ID: 880-27468-18

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

Method: SW846 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		04/21/23 11:56	04/22/23 01:30	1
Toluene	<0.000451	U	0.00198	0.000451	mg/Kg		04/21/23 11:56	04/22/23 01:30	1
Ethylbenzene	<0.000559	U	0.00198	0.000559	mg/Kg		04/21/23 11:56	04/22/23 01:30	1
m-Xylene & p-Xylene	<0.00100	U	0.00396	0.00100	mg/Kg		04/21/23 11:56	04/22/23 01:30	1
o-Xylene	<0.000341	U	0.00198	0.000341	mg/Kg		04/21/23 11:56	04/22/23 01:30	1
Xylenes, Total	<0.00100	U	0.00396	0.00100	mg/Kg		04/21/23 11:56	04/22/23 01:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	174	S1+	70 - 130	04/21/23 11:56	04/22/23 01:30	1
1,4-Difluorobenzene (Surr)	77		70 - 130	04/21/23 11:56	04/22/23 01:30	1

Method: TAL SOP 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			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	69.1		49.8	14.9	mg/Kg			04/24/23 12:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	32.0	J	49.8	14.9	mg/Kg		04/21/23 14:33	04/22/23 18:51	1
Diesel Range Organics (Over C10-C28)	21.8	J	49.8	14.9	mg/Kg		04/21/23 14:33	04/22/23 18:51	1
Oil Range Organics (Over C28-C36)	15.3	J	49.8	14.9	mg/Kg		04/21/23 14:33	04/22/23 18:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	04/21/23 14:33	04/22/23 18:51	1
o-Terphenyl	117		70 - 130	04/21/23 14:33	04/22/23 18:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	972		4.99	0.394	mg/Kg			04/25/23 02:02	1

Client Sample ID: BH-60

Lab Sample ID: 880-27468-19

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

Method: SW846 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		04/21/23 11:56	04/22/23 01:56	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		04/21/23 11:56	04/22/23 01:56	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		04/21/23 11:56	04/22/23 01:56	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		04/21/23 11:56	04/22/23 01:56	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		04/21/23 11:56	04/22/23 01:56	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		04/21/23 11:56	04/22/23 01:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130	04/21/23 11:56	04/22/23 01:56	1
1,4-Difluorobenzene (Surr)	73		70 - 130	04/21/23 11:56	04/22/23 01:56	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

Client Sample ID: BH-60

Lab Sample ID: 880-27468-19

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

Method: TAL SOP 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			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	62.6		49.9	15.0	mg/Kg			04/24/23 12:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	28.9	J	49.9	15.0	mg/Kg		04/21/23 14:33	04/22/23 19:13	1
Diesel Range Organics (Over C10-C28)	18.5	J	49.9	15.0	mg/Kg		04/21/23 14:33	04/22/23 19:13	1
Oil Range Organics (Over C28-C36)	15.2	J	49.9	15.0	mg/Kg		04/21/23 14:33	04/22/23 19:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				04/21/23 14:33	04/22/23 19:13	1
o-Terphenyl	118		70 - 130				04/21/23 14:33	04/22/23 19:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1180		5.03	0.397	mg/Kg			04/25/23 02:07	1

Client Sample ID: BH-61

Lab Sample ID: 880-27468-20

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

Method: SW846 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		04/21/23 11:56	04/22/23 02:23	1
Toluene	<0.000455	U	0.00200	0.000455	mg/Kg		04/21/23 11:56	04/22/23 02:23	1
Ethylbenzene	<0.000564	U	0.00200	0.000564	mg/Kg		04/21/23 11:56	04/22/23 02:23	1
m-Xylene & p-Xylene	<0.00101	U	0.00399	0.00101	mg/Kg		04/21/23 11:56	04/22/23 02:23	1
o-Xylene	<0.000343	U	0.00200	0.000343	mg/Kg		04/21/23 11:56	04/22/23 02:23	1
Xylenes, Total	<0.00101	U	0.00399	0.00101	mg/Kg		04/21/23 11:56	04/22/23 02:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	159	S1+	70 - 130				04/21/23 11:56	04/22/23 02:23	1
1,4-Difluorobenzene (Surr)	80		70 - 130				04/21/23 11:56	04/22/23 02:23	1

Method: TAL SOP 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			04/24/23 15:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	80.1		50.0	15.0	mg/Kg			04/24/23 12:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	42.3	J	50.0	15.0	mg/Kg		04/21/23 14:33	04/22/23 19:34	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

Client Sample ID: BH-61

Lab Sample ID: 880-27468-20

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

Method: SW846 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)	21.6	J	50.0	15.0	mg/Kg		04/21/23 14:33	04/22/23 19:34	1
Oil Range Organics (Over C28-C36)	16.2	J	50.0	15.0	mg/Kg		04/21/23 14:33	04/22/23 19:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130				04/21/23 14:33	04/22/23 19:34	1
o-Terphenyl	134	S1+	70 - 130				04/21/23 14:33	04/22/23 19:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2200		25.1	1.98	mg/Kg			04/25/23 02:12	5

Client Sample ID: BH-62

Lab Sample ID: 880-27468-21

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

Method: SW846 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		04/21/23 11:52	04/22/23 05:39	1
Toluene	0.00163	J	0.00199	0.000454	mg/Kg		04/21/23 11:52	04/22/23 05:39	1
Ethylbenzene	<0.000563	U	0.00199	0.000563	mg/Kg		04/21/23 11:52	04/22/23 05:39	1
m-Xylene & p-Xylene	<0.00101	U	0.00398	0.00101	mg/Kg		04/21/23 11:52	04/22/23 05:39	1
o-Xylene	<0.000343	U	0.00199	0.000343	mg/Kg		04/21/23 11:52	04/22/23 05:39	1
Xylenes, Total	<0.00101	U	0.00398	0.00101	mg/Kg		04/21/23 11:52	04/22/23 05:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				04/21/23 11:52	04/22/23 05:39	1
1,4-Difluorobenzene (Surr)	105		70 - 130				04/21/23 11:52	04/22/23 05:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00163	J	0.00398	0.00101	mg/Kg			04/24/23 14:06	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	117		50.0	15.0	mg/Kg			04/24/23 12:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	26.1	J	50.0	15.0	mg/Kg		04/21/23 16:30	04/23/23 02:36	1
Diesel Range Organics (Over C10-C28)	74.1		50.0	15.0	mg/Kg		04/21/23 16:30	04/23/23 02:36	1
Oil Range Organics (Over C28-C36)	16.4	J B	50.0	15.0	mg/Kg		04/21/23 16:30	04/23/23 02:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				04/21/23 16:30	04/23/23 02:36	1
o-Terphenyl	128		70 - 130				04/21/23 16:30	04/23/23 02:36	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

Client Sample ID: BH-62

Date Collected: 04/14/23 00:00

Date Received: 04/21/23 11:26

Lab Sample ID: 880-27468-21

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	266	B F1	4.99	0.394	mg/Kg			04/24/23 21:29	1

Client Sample ID: BH-63

Date Collected: 04/14/23 00:00

Date Received: 04/21/23 11:26

Lab Sample ID: 880-27468-22

Matrix: Solid

Method: SW846 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		04/21/23 11:52	04/22/23 06:00	1
Toluene	<0.000453	U	0.00199	0.000453	mg/Kg		04/21/23 11:52	04/22/23 06:00	1
Ethylbenzene	<0.000562	U	0.00199	0.000562	mg/Kg		04/21/23 11:52	04/22/23 06:00	1
m-Xylene & p-Xylene	<0.00100	U	0.00398	0.00100	mg/Kg		04/21/23 11:52	04/22/23 06:00	1
o-Xylene	<0.000342	U	0.00199	0.000342	mg/Kg		04/21/23 11:52	04/22/23 06:00	1
Xylenes, Total	<0.00100	U	0.00398	0.00100	mg/Kg		04/21/23 11:52	04/22/23 06:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	04/21/23 11:52	04/22/23 06:00	1
1,4-Difluorobenzene (Surr)	106		70 - 130	04/21/23 11:52	04/22/23 06:00	1

Method: TAL SOP 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			04/24/23 14:06	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	36.3	J	49.9	15.0	mg/Kg			04/24/23 12:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	21.1	J	49.9	15.0	mg/Kg		04/21/23 16:30	04/23/23 02:56	1
Diesel Range Organics (Over C10-C28)	15.2	J	49.9	15.0	mg/Kg		04/21/23 16:30	04/23/23 02:56	1
Oil Range Organics (Over C28-C36)	<15.0	U	49.9	15.0	mg/Kg		04/21/23 16:30	04/23/23 02:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	04/21/23 16:30	04/23/23 02:56	1
o-Terphenyl	134	S1+	70 - 130	04/21/23 16:30	04/23/23 02:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2080	B	24.9	1.96	mg/Kg			04/24/23 21:42	5

Client Sample ID: SW-72

Date Collected: 04/14/23 00:00

Date Received: 04/21/23 11:26

Lab Sample ID: 880-27468-23

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00430		0.00199	0.000383	mg/Kg		04/21/23 12:00	04/21/23 18:35	1
Toluene	0.00996	B	0.00199	0.000454	mg/Kg		04/21/23 12:00	04/21/23 18:35	1
Ethylbenzene	0.00109	J	0.00199	0.000563	mg/Kg		04/21/23 12:00	04/21/23 18:35	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

Client Sample ID: SW-72

Lab Sample ID: 880-27468-23

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	0.00175	J	0.00398	0.00101	mg/Kg		04/21/23 12:00	04/21/23 18:35	1
o-Xylene	0.000493	J	0.00199	0.000343	mg/Kg		04/21/23 12:00	04/21/23 18:35	1
Xylenes, Total	0.00224	J	0.00398	0.00101	mg/Kg		04/21/23 12:00	04/21/23 18:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				04/21/23 12:00	04/21/23 18:35	1
1,4-Difluorobenzene (Surr)	104		70 - 130				04/21/23 12:00	04/21/23 18:35	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0176		0.00398	0.00101	mg/Kg			04/24/23 13:40	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	46.9	J	49.8	14.9	mg/Kg			04/24/23 12:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	30.4	J	49.8	14.9	mg/Kg		04/21/23 16:30	04/23/23 03:17	1
Diesel Range Organics (Over C10-C28)	16.5	J	49.8	14.9	mg/Kg		04/21/23 16:30	04/23/23 03:17	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		04/21/23 16:30	04/23/23 03:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				04/21/23 16:30	04/23/23 03:17	1
o-Terphenyl	136	S1+	70 - 130				04/21/23 16:30	04/23/23 03:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.8	B	5.01	0.396	mg/Kg			04/24/23 21:47	1

Client Sample ID: SW-73

Lab Sample ID: 880-27468-24

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000685	J	0.00199	0.000383	mg/Kg		04/21/23 12:00	04/21/23 18:56	1
Toluene	0.00450	B	0.00199	0.000453	mg/Kg		04/21/23 12:00	04/21/23 18:56	1
Ethylbenzene	0.00107	J	0.00199	0.000562	mg/Kg		04/21/23 12:00	04/21/23 18:56	1
m-Xylene & p-Xylene	0.00215	J	0.00398	0.00100	mg/Kg		04/21/23 12:00	04/21/23 18:56	1
o-Xylene	0.000927	J	0.00199	0.000342	mg/Kg		04/21/23 12:00	04/21/23 18:56	1
Xylenes, Total	0.00308	J	0.00398	0.00100	mg/Kg		04/21/23 12:00	04/21/23 18:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				04/21/23 12:00	04/21/23 18:56	1
1,4-Difluorobenzene (Surr)	108		70 - 130				04/21/23 12:00	04/21/23 18:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00933		0.00398	0.00100	mg/Kg			04/24/23 13:40	1

Eurofins Midland

Client Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

Client Sample ID: SW-73
Date Collected: 04/14/23 00:00
Date Received: 04/21/23 11:26

Lab Sample ID: 880-27468-24
Matrix: Solid

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	78.5		49.8	14.9	mg/Kg			04/24/23 11:55	1
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	47.0	J B	49.8	14.9	mg/Kg		04/21/23 14:02	04/23/23 02:56	1
Diesel Range Organics (Over C10-C28)	31.5	J B	49.8	14.9	mg/Kg		04/21/23 14:02	04/23/23 02:56	1
Oil Range Organics (Over C28-C36)	<14.9	U	49.8	14.9	mg/Kg		04/21/23 14:02	04/23/23 02:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	153	S1+	70 - 130				04/21/23 14:02	04/23/23 02:56	1
o-Terphenyl	142	S1+	70 - 130				04/21/23 14:02	04/23/23 02:56	1
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	296	B	5.00	0.395	mg/Kg			04/24/23 21:51	1

Surrogate Summary

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

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)
880-27468-1	BH-42	144 S1+	70
880-27468-1 MS	BH-42	140 S1+	91
880-27468-1 MSD	BH-42	155 S1+	90
880-27468-2	BH-43	148 S1+	67 S1-
880-27468-3	BH-44	175 S1+	82
880-27468-4	BH-45	147 S1+	77
880-27468-5	BH-46	166 S1+	80
880-27468-6	BH-47	141 S1+	73
880-27468-7	BH-48	142 S1+	64 S1-
880-27468-8	BH-49	128	62 S1-
880-27468-9	BH-50	144 S1+	74
880-27468-10	BH-51	141 S1+	74
880-27468-11	BH-52	96	70
880-27468-12	BH-53	154 S1+	75
880-27468-13	BH-54	142 S1+	71
880-27468-14	BH-55	146 S1+	74
880-27468-15	BH-56	150 S1+	66 S1-
880-27468-16	BH-57	171 S1+	78
880-27468-17	BH-58	170 S1+	78
880-27468-18	BH-59	174 S1+	77
880-27468-19	BH-60	137 S1+	73
880-27468-20	BH-61	159 S1+	80
880-27468-21	BH-62	114	105
880-27468-22	BH-63	111	106
880-27468-23	SW-72	115	104
880-27468-24	SW-73	116	108
LCS 880-51667/1-A	Lab Control Sample	104	95
LCS 880-51700/1-A	Lab Control Sample	102	107
LCS 880-51701/1-A	Lab Control Sample	133 S1+	93
LCS 880-51842/1-A	Lab Control Sample	114	87
LCSD 880-51667/2-A	Lab Control Sample Dup	113	94
LCSD 880-51700/2-A	Lab Control Sample Dup	99	105
LCSD 880-51701/2-A	Lab Control Sample Dup	137 S1+	75
LCSD 880-51842/2-A	Lab Control Sample Dup	117	109
MB 880-51667/5-A	Method Blank	104	85
MB 880-51686/5-A	Method Blank	98	96
MB 880-51700/5-A	Method Blank	97	99
MB 880-51701/5-A	Method Blank	84	75
MB 880-51796/5-A	Method Blank	74	82
MB 880-51842/5-A	Method Blank	76	80

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Eurofins Midland

Surrogate Summary

Client: GHD Services Inc.

Job ID: 880-27468-1

Project/Site: McElvain

SDG: 12592305

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-27468-1	BH-42	103	114
880-27468-1 MS	BH-42	107	110
880-27468-1 MSD	BH-42	123	124
880-27468-2	BH-43	112	124
880-27468-3	BH-44	106	122
880-27468-4	BH-45	103	115
880-27468-5	BH-46	119	129
880-27468-6	BH-47	96	108
880-27468-7	BH-48	109	126
880-27468-8	BH-49	119	130
880-27468-9	BH-50	112	121
880-27468-10	BH-51	95	109
880-27468-11	BH-52	94	103
880-27468-12	BH-53	118	130
880-27468-13	BH-54	116	131 S1+
880-27468-14	BH-55	98	110
880-27468-15	BH-56	121	139 S1+
880-27468-16	BH-57	109	124
880-27468-17	BH-58	112	125
880-27468-18	BH-59	101	117
880-27468-19	BH-60	102	118
880-27468-20	BH-61	119	134 S1+
880-27468-21	BH-62	111	128
880-27468-22	BH-63	113	134 S1+
880-27468-23	SW-72	120	136 S1+
880-27468-24	SW-73	153 S1+	142 S1+
LCS 880-51720/2-A	Lab Control Sample	98	93
LCS 880-51739/2-A	Lab Control Sample	108	126
LCS 880-51760/2-A	Lab Control Sample	111	128
LCSD 880-51720/3-A	Lab Control Sample Dup	103	95
LCSD 880-51739/3-A	Lab Control Sample Dup	109	127
LCSD 880-51760/3-A	Lab Control Sample Dup	109	127
MB 880-51720/1-A	Method Blank	120	124
MB 880-51739/1-A	Method Blank	148 S1+	185 S1+
MB 880-51760/1-A	Method Blank	134 S1+	171 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Midland

QC Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-51667/5-A

Matrix: Solid

Analysis Batch: 51665

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51667

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		04/21/23 08:49	04/21/23 10:58	1
Toluene	0.0006039	J	0.00200	0.000456	mg/Kg		04/21/23 08:49	04/21/23 10:58	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		04/21/23 08:49	04/21/23 10:58	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		04/21/23 08:49	04/21/23 10:58	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		04/21/23 08:49	04/21/23 10:58	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		04/21/23 08:49	04/21/23 10:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	04/21/23 08:49	04/21/23 10:58	1
1,4-Difluorobenzene (Surr)	85		70 - 130	04/21/23 08:49	04/21/23 10:58	1

Lab Sample ID: LCS 880-51667/1-A

Matrix: Solid

Analysis Batch: 51665

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 51667

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1064		mg/Kg		106	70 - 130
Toluene	0.100	0.1005		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.1030		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.2116		mg/Kg		106	70 - 130
o-Xylene	0.100	0.1040		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-51667/2-A

Matrix: Solid

Analysis Batch: 51665

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 51667

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09924		mg/Kg		99	70 - 130	7	35
Toluene	0.100	0.09635		mg/Kg		96	70 - 130	4	35
Ethylbenzene	0.100	0.1021		mg/Kg		102	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2060		mg/Kg		103	70 - 130	3	35
o-Xylene	0.100	0.1065		mg/Kg		106	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: MB 880-51686/5-A

Matrix: Solid

Analysis Batch: 51664

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51686

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		04/21/23 10:18	04/21/23 12:00	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		04/21/23 10:18	04/21/23 12:00	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

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

Lab Sample ID: MB 880-51686/5-A

Matrix: Solid

Analysis Batch: 51664

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51686

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		04/21/23 10:18	04/21/23 12:00	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		04/21/23 10:18	04/21/23 12:00	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		04/21/23 10:18	04/21/23 12:00	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		04/21/23 10:18	04/21/23 12:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	04/21/23 10:18	04/21/23 12:00	1
1,4-Difluorobenzene (Surr)	96		70 - 130	04/21/23 10:18	04/21/23 12:00	1

Lab Sample ID: MB 880-51700/5-A

Matrix: Solid

Analysis Batch: 51664

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51700

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		04/21/23 11:52	04/21/23 23:36	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		04/21/23 11:52	04/21/23 23:36	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		04/21/23 11:52	04/21/23 23:36	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		04/21/23 11:52	04/21/23 23:36	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		04/21/23 11:52	04/21/23 23:36	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		04/21/23 11:52	04/21/23 23:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	04/21/23 11:52	04/21/23 23:36	1
1,4-Difluorobenzene (Surr)	99		70 - 130	04/21/23 11:52	04/21/23 23:36	1

Lab Sample ID: LCS 880-51700/1-A

Matrix: Solid

Analysis Batch: 51664

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 51700

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08594		mg/Kg		86	70 - 130
Toluene	0.100	0.08256		mg/Kg		83	70 - 130
Ethylbenzene	0.100	0.07779		mg/Kg		78	70 - 130
m-Xylene & p-Xylene	0.200	0.1575		mg/Kg		79	70 - 130
o-Xylene	0.100	0.07938		mg/Kg		79	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: LCSD 880-51700/2-A

Matrix: Solid

Analysis Batch: 51664

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 51700

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07963		mg/Kg		80	70 - 130	8	35
Toluene	0.100	0.07788		mg/Kg		78	70 - 130	6	35
Ethylbenzene	0.100	0.07169		mg/Kg		72	70 - 130	8	35

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QC Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

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

Lab Sample ID: LCSD 880-51700/2-A

Matrix: Solid

Analysis Batch: 51664

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 51700

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	0.200	0.1454		mg/Kg		73	70 - 130	8	35
o-Xylene	0.100	0.07504		mg/Kg		75	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: MB 880-51701/5-A

Matrix: Solid

Analysis Batch: 51713

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51701

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		04/21/23 11:56	04/21/23 16:20	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		04/21/23 11:56	04/21/23 16:20	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		04/21/23 11:56	04/21/23 16:20	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		04/21/23 11:56	04/21/23 16:20	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		04/21/23 11:56	04/21/23 16:20	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		04/21/23 11:56	04/21/23 16:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	04/21/23 11:56	04/21/23 16:20	1
1,4-Difluorobenzene (Surr)	75		70 - 130	04/21/23 11:56	04/21/23 16:20	1

Lab Sample ID: LCS 880-51701/1-A

Matrix: Solid

Analysis Batch: 51713

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 51701

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1155		mg/Kg		116	70 - 130
Toluene	0.100	0.1073		mg/Kg		107	70 - 130
Ethylbenzene	0.100	0.1140		mg/Kg		114	70 - 130
m-Xylene & p-Xylene	0.200	0.2220		mg/Kg		111	70 - 130
o-Xylene	0.100	0.1095		mg/Kg		109	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: LCSD 880-51701/2-A

Matrix: Solid

Analysis Batch: 51713

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 51701

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1144		mg/Kg		114	70 - 130	1	35
Toluene	0.100	0.1122		mg/Kg		112	70 - 130	5	35
Ethylbenzene	0.100	0.1190		mg/Kg		119	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2349		mg/Kg		117	70 - 130	6	35
o-Xylene	0.100	0.1157		mg/Kg		116	70 - 130	5	35

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QC Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

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

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130
1,4-Difluorobenzene (Surr)	75		70 - 130

Lab Sample ID: 880-27468-1 MS

Matrix: Solid

Analysis Batch: 51713

Client Sample ID: BH-42

Prep Type: Total/NA

Prep Batch: 51701

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.00106	J	0.0996	0.1070		mg/Kg		106	70 - 130
Toluene	<0.000457	U	0.0996	0.1005		mg/Kg		101	70 - 130
Ethylbenzene	<0.000566	U	0.0996	0.1020		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	<0.00101	U	0.199	0.1985		mg/Kg		100	70 - 130
o-Xylene	<0.000345	U	0.0996	0.09824		mg/Kg		99	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 880-27468-1 MSD

Matrix: Solid

Analysis Batch: 51713

Client Sample ID: BH-42

Prep Type: Total/NA

Prep Batch: 51701

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.00106	J	0.0990	0.1238		mg/Kg		124	70 - 130	15	35
Toluene	<0.000457	U	0.0990	0.1146		mg/Kg		116	70 - 130	13	35
Ethylbenzene	<0.000566	U	0.0990	0.1178		mg/Kg		119	70 - 130	14	35
m-Xylene & p-Xylene	<0.00101	U	0.198	0.2298		mg/Kg		116	70 - 130	15	35
o-Xylene	<0.000345	U	0.0990	0.1135		mg/Kg		115	70 - 130	14	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	155	S1+	70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: MB 880-51796/5-A

Matrix: Solid

Analysis Batch: 51793

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51796

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		04/24/23 08:38	04/24/23 11:49	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		04/24/23 08:38	04/24/23 11:49	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		04/24/23 08:38	04/24/23 11:49	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		04/24/23 08:38	04/24/23 11:49	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		04/24/23 08:38	04/24/23 11:49	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		04/24/23 08:38	04/24/23 11:49	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	74		70 - 130	04/24/23 08:38	04/24/23 11:49	1			
1,4-Difluorobenzene (Surr)	82		70 - 130	04/24/23 08:38	04/24/23 11:49	1			

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QC Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

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

Lab Sample ID: MB 880-51842/5-A

Matrix: Solid

Analysis Batch: 51793

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51842

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000385	U	0.00200	0.000385	mg/Kg		04/24/23 11:53	04/24/23 23:12	1
Toluene	<0.000456	U	0.00200	0.000456	mg/Kg		04/24/23 11:53	04/24/23 23:12	1
Ethylbenzene	<0.000565	U	0.00200	0.000565	mg/Kg		04/24/23 11:53	04/24/23 23:12	1
m-Xylene & p-Xylene	<0.00101	U	0.00400	0.00101	mg/Kg		04/24/23 11:53	04/24/23 23:12	1
o-Xylene	<0.000344	U	0.00200	0.000344	mg/Kg		04/24/23 11:53	04/24/23 23:12	1
Xylenes, Total	<0.00101	U	0.00400	0.00101	mg/Kg		04/24/23 11:53	04/24/23 23:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130	04/24/23 11:53	04/24/23 23:12	1
1,4-Difluorobenzene (Surr)	80		70 - 130	04/24/23 11:53	04/24/23 23:12	1

Lab Sample ID: LCS 880-51842/1-A

Matrix: Solid

Analysis Batch: 51793

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 51842

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07865		mg/Kg		79	70 - 130
Toluene	0.100	0.08718		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.08717		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1841		mg/Kg		92	70 - 130
o-Xylene	0.100	0.09410		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: LCSD 880-51842/2-A

Matrix: Solid

Analysis Batch: 51793

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 51842

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08353		mg/Kg		84	70 - 130	6	35
Toluene	0.100	0.09106		mg/Kg		91	70 - 130	4	35
Ethylbenzene	0.100	0.08957		mg/Kg		90	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1885		mg/Kg		94	70 - 130	2	35
o-Xylene	0.100	0.09665		mg/Kg		97	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

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QC Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

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

Lab Sample ID: MB 880-51720/1-A

Matrix: Solid

Analysis Batch: 51776

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51720

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	16.39	J	50.0	15.0	mg/Kg		04/21/23 14:02	04/22/23 20:18	1
Diesel Range Organics (Over C10-C28)	17.38	J	50.0	15.0	mg/Kg		04/21/23 14:02	04/22/23 20:18	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/21/23 14:02	04/22/23 20:18	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				04/21/23 14:02	04/22/23 20:18	1
o-Terphenyl	124		70 - 130				04/21/23 14:02	04/22/23 20:18	1

Lab Sample ID: LCS 880-51720/2-A

Matrix: Solid

Analysis Batch: 51776

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 51720

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	814.8		mg/Kg		81	70 - 130
Diesel Range Organics (Over C10-C28)	1000	816.5		mg/Kg		82	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	98		70 - 130				
o-Terphenyl	93		70 - 130				

Lab Sample ID: LCSD 880-51720/3-A

Matrix: Solid

Analysis Batch: 51776

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 51720

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	842.4		mg/Kg		84	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	940.6		mg/Kg		94	70 - 130	14	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	103		70 - 130						
o-Terphenyl	95		70 - 130						

Lab Sample ID: MB 880-51739/1-A

Matrix: Solid

Analysis Batch: 51778

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51739

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		04/21/23 14:33	04/22/23 09:07	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		04/21/23 14:33	04/22/23 09:07	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.0	mg/Kg		04/21/23 14:33	04/22/23 09:07	1

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QC Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

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

Lab Sample ID: MB 880-51739/1-A

Matrix: Solid

Analysis Batch: 51778

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51739

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
1-Chlorooctane	148	S1+	70 - 130	04/21/23 14:33	04/22/23 09:07	1				
o-Terphenyl	185	S1+	70 - 130	04/21/23 14:33	04/22/23 09:07	1				

Lab Sample ID: LCS 880-51739/2-A

Matrix: Solid

Analysis Batch: 51778

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 51739

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1071		mg/Kg		107	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	918.6		mg/Kg		92	70 - 130		

	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	108		70 - 130								
o-Terphenyl	126		70 - 130								

Lab Sample ID: LCSD 880-51739/3-A

Matrix: Solid

Analysis Batch: 51778

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 51739

			Spike	LCSD	LCSD				%Rec		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	1065		mg/Kg		106	70 - 130	1	20	
Diesel Range Organics (Over C10-C28)			1000	913.3		mg/Kg		91	70 - 130	1	20	

	LCSD	LCSD										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	109		70 - 130									
o-Terphenyl	127		70 - 130									

Lab Sample ID: 880-27468-1 MS

Matrix: Solid

Analysis Batch: 51778

Client Sample ID: BH-42

Prep Type: Total/NA

Prep Batch: 51739

	Sample	Sample	Spike	MS	MS				%Rec			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Gasoline Range Organics (GRO)-C6-C10	28.0	J	998	831.7		mg/Kg		81	70 - 130			
Diesel Range Organics (Over C10-C28)	20.8	J	998	992.6		mg/Kg		97	70 - 130			

	MS	MS										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	107		70 - 130									
o-Terphenyl	110		70 - 130									

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QC Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

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

Lab Sample ID: 880-27468-1 MSD

Matrix: Solid

Analysis Batch: 51778

Client Sample ID: BH-42

Prep Type: Total/NA

Prep Batch: 51739

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	28.0	J	999	948.7		mg/Kg		92	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	20.8	J	999	1113		mg/Kg		109	70 - 130	11	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	123		70 - 130								
o-Terphenyl	124		70 - 130								

Lab Sample ID: MB 880-51760/1-A

Matrix: Solid

Analysis Batch: 51778

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51760

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		04/21/23 16:30	04/22/23 20:18	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		04/21/23 16:30	04/22/23 20:18	1
Oil Range Organics (Over C28-C36)	15.43	J	50.0	15.0	mg/Kg		04/21/23 16:30	04/22/23 20:18	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130				04/21/23 16:30	04/22/23 20:18	1
o-Terphenyl	171	S1+	70 - 130				04/21/23 16:30	04/22/23 20:18	1

Lab Sample ID: LCS 880-51760/2-A

Matrix: Solid

Analysis Batch: 51778

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 51760

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1079		mg/Kg		108	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	939.3		mg/Kg		94	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	111		70 - 130						
o-Terphenyl	128		70 - 130						

Lab Sample ID: LCSD 880-51760/3-A

Matrix: Solid

Analysis Batch: 51778

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 51760

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1059		mg/Kg		106	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	917.8		mg/Kg		92	70 - 130	2	20

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QC Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

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

Lab Sample ID: LCSD 880-51760/3-A

Matrix: Solid

Analysis Batch: 51778

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 51760

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	127		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-51742/1-A

Matrix: Solid

Analysis Batch: 51880

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			04/24/23 23:55		1

Lab Sample ID: LCS 880-51742/2-A

Matrix: Solid

Analysis Batch: 51880

Client Sample ID: Lab Control Sample

Prep Type: Soluble

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride			250	251.7		mg/Kg		101	90 - 110	

Lab Sample ID: LCSD 880-51742/3-A

Matrix: Solid

Analysis Batch: 51880

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	251.0		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 880-27468-1 MS

Matrix: Solid

Analysis Batch: 51880

Client Sample ID: BH-42

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	49.4		250	306.3		mg/Kg		103	90 - 110	

Lab Sample ID: 880-27468-1 MSD

Matrix: Solid

Analysis Batch: 51880

Client Sample ID: BH-42

Prep Type: Soluble

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	49.4		250	305.4		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-27468-11 MS

Matrix: Solid

Analysis Batch: 51880

Client Sample ID: BH-52

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	516		251	768.3		mg/Kg		101	90 - 110	

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QC Sample Results

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-27468-11 MSD

Matrix: Solid

Analysis Batch: 51880

Client Sample ID: BH-52

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	516		251	767.9		mg/Kg		101	90 - 110	0	20

Lab Sample ID: MB 880-51741/1-A

Matrix: Solid

Analysis Batch: 51881

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2.571	J	5.00	0.395	mg/Kg			04/24/23 21:15	1

Lab Sample ID: LCS 880-51741/2-A

Matrix: Solid

Analysis Batch: 51881

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	249.0		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-51741/3-A

Matrix: Solid

Analysis Batch: 51881

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	247.2		mg/Kg		99	90 - 110	1	20

Lab Sample ID: 880-27468-21 MS

Matrix: Solid

Analysis Batch: 51881

Client Sample ID: BH-62

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	266	B F1	250	565.7	F1	mg/Kg		120	90 - 110

Lab Sample ID: 880-27468-21 MSD

Matrix: Solid

Analysis Batch: 51881

Client Sample ID: BH-62

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	266	B F1	250	563.2	F1	mg/Kg		119	90 - 110	0	20

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QC Association Summary

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

GC VOA

Analysis Batch: 51664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27468-21	BH-62	Total/NA	Solid	8021B	51700
880-27468-22	BH-63	Total/NA	Solid	8021B	51700
MB 880-51686/5-A	Method Blank	Total/NA	Solid	8021B	51686
MB 880-51700/5-A	Method Blank	Total/NA	Solid	8021B	51700
LCS 880-51700/1-A	Lab Control Sample	Total/NA	Solid	8021B	51700
LCSD 880-51700/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	51700

Analysis Batch: 51665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27468-23	SW-72	Total/NA	Solid	8021B	51667
880-27468-24	SW-73	Total/NA	Solid	8021B	51667
MB 880-51667/5-A	Method Blank	Total/NA	Solid	8021B	51667
LCS 880-51667/1-A	Lab Control Sample	Total/NA	Solid	8021B	51667
LCSD 880-51667/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	51667

Prep Batch: 51667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27468-23	SW-72	Total/NA	Solid	5035	
880-27468-24	SW-73	Total/NA	Solid	5035	
MB 880-51667/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-51667/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-51667/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 51686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-51686/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 51700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27468-21	BH-62	Total/NA	Solid	5035	
880-27468-22	BH-63	Total/NA	Solid	5035	
MB 880-51700/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-51700/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-51700/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 51701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27468-1	BH-42	Total/NA	Solid	5035	
880-27468-2	BH-43	Total/NA	Solid	5035	
880-27468-3	BH-44	Total/NA	Solid	5035	
880-27468-4	BH-45	Total/NA	Solid	5035	
880-27468-5	BH-46	Total/NA	Solid	5035	
880-27468-6	BH-47	Total/NA	Solid	5035	
880-27468-7	BH-48	Total/NA	Solid	5035	
880-27468-8	BH-49	Total/NA	Solid	5035	
880-27468-9	BH-50	Total/NA	Solid	5035	
880-27468-10	BH-51	Total/NA	Solid	5035	
880-27468-11	BH-52	Total/NA	Solid	5035	
880-27468-12	BH-53	Total/NA	Solid	5035	
880-27468-13	BH-54	Total/NA	Solid	5035	
880-27468-14	BH-55	Total/NA	Solid	5035	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: McElvainJob ID: 880-27468-1
SDG: 12592305

GC VOA (Continued)

Prep Batch: 51701 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27468-15	BH-56	Total/NA	Solid	5035	
880-27468-16	BH-57	Total/NA	Solid	5035	
880-27468-17	BH-58	Total/NA	Solid	5035	
880-27468-18	BH-59	Total/NA	Solid	5035	
880-27468-19	BH-60	Total/NA	Solid	5035	
880-27468-20	BH-61	Total/NA	Solid	5035	
MB 880-51701/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-51701/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-51701/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-27468-1 MS	BH-42	Total/NA	Solid	5035	
880-27468-1 MSD	BH-42	Total/NA	Solid	5035	

Analysis Batch: 51713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27468-1	BH-42	Total/NA	Solid	8021B	51701
880-27468-2	BH-43	Total/NA	Solid	8021B	51701
880-27468-3	BH-44	Total/NA	Solid	8021B	51701
880-27468-4	BH-45	Total/NA	Solid	8021B	51701
880-27468-5	BH-46	Total/NA	Solid	8021B	51701
880-27468-6	BH-47	Total/NA	Solid	8021B	51701
880-27468-7	BH-48	Total/NA	Solid	8021B	51701
880-27468-8	BH-49	Total/NA	Solid	8021B	51701
880-27468-9	BH-50	Total/NA	Solid	8021B	51701
880-27468-10	BH-51	Total/NA	Solid	8021B	51701
880-27468-11	BH-52	Total/NA	Solid	8021B	51701
880-27468-12	BH-53	Total/NA	Solid	8021B	51701
880-27468-13	BH-54	Total/NA	Solid	8021B	51701
880-27468-14	BH-55	Total/NA	Solid	8021B	51701
880-27468-15	BH-56	Total/NA	Solid	8021B	51701
880-27468-16	BH-57	Total/NA	Solid	8021B	51701
880-27468-17	BH-58	Total/NA	Solid	8021B	51701
880-27468-18	BH-59	Total/NA	Solid	8021B	51701
880-27468-19	BH-60	Total/NA	Solid	8021B	51701
880-27468-20	BH-61	Total/NA	Solid	8021B	51701
MB 880-51701/5-A	Method Blank	Total/NA	Solid	8021B	51701
LCS 880-51701/1-A	Lab Control Sample	Total/NA	Solid	8021B	51701
LCSD 880-51701/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	51701
880-27468-1 MS	BH-42	Total/NA	Solid	8021B	51701
880-27468-1 MSD	BH-42	Total/NA	Solid	8021B	51701

Analysis Batch: 51793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27468-1	BH-42	Total/NA	Solid	8021B	51842
880-27468-2	BH-43	Total/NA	Solid	8021B	51842
880-27468-4	BH-45	Total/NA	Solid	8021B	51842
880-27468-6	BH-47	Total/NA	Solid	8021B	51842
880-27468-9	BH-50	Total/NA	Solid	8021B	51842
880-27468-11	BH-52	Total/NA	Solid	8021B	51842
MB 880-51796/5-A	Method Blank	Total/NA	Solid	8021B	51796
MB 880-51842/5-A	Method Blank	Total/NA	Solid	8021B	51842
LCS 880-51842/1-A	Lab Control Sample	Total/NA	Solid	8021B	51842

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QC Association Summary

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

GC VOA (Continued)

Analysis Batch: 51793 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-51842/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	51842

Prep Batch: 51796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-51796/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 51842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27468-1	BH-42	Total/NA	Solid	5035	
880-27468-2	BH-43	Total/NA	Solid	5035	
880-27468-4	BH-45	Total/NA	Solid	5035	
880-27468-6	BH-47	Total/NA	Solid	5035	
880-27468-9	BH-50	Total/NA	Solid	5035	
880-27468-11	BH-52	Total/NA	Solid	5035	
MB 880-51842/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-51842/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-51842/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 51862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27468-1	BH-42	Total/NA	Solid	Total BTEX	
880-27468-2	BH-43	Total/NA	Solid	Total BTEX	
880-27468-3	BH-44	Total/NA	Solid	Total BTEX	
880-27468-4	BH-45	Total/NA	Solid	Total BTEX	
880-27468-5	BH-46	Total/NA	Solid	Total BTEX	
880-27468-6	BH-47	Total/NA	Solid	Total BTEX	
880-27468-7	BH-48	Total/NA	Solid	Total BTEX	
880-27468-8	BH-49	Total/NA	Solid	Total BTEX	
880-27468-9	BH-50	Total/NA	Solid	Total BTEX	
880-27468-10	BH-51	Total/NA	Solid	Total BTEX	
880-27468-11	BH-52	Total/NA	Solid	Total BTEX	
880-27468-12	BH-53	Total/NA	Solid	Total BTEX	
880-27468-13	BH-54	Total/NA	Solid	Total BTEX	
880-27468-14	BH-55	Total/NA	Solid	Total BTEX	
880-27468-15	BH-56	Total/NA	Solid	Total BTEX	
880-27468-16	BH-57	Total/NA	Solid	Total BTEX	
880-27468-17	BH-58	Total/NA	Solid	Total BTEX	
880-27468-18	BH-59	Total/NA	Solid	Total BTEX	
880-27468-19	BH-60	Total/NA	Solid	Total BTEX	
880-27468-20	BH-61	Total/NA	Solid	Total BTEX	
880-27468-21	BH-62	Total/NA	Solid	Total BTEX	
880-27468-22	BH-63	Total/NA	Solid	Total BTEX	
880-27468-23	SW-72	Total/NA	Solid	Total BTEX	
880-27468-24	SW-73	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 51720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27468-24	SW-73	Total/NA	Solid	8015NM Prep	
MB 880-51720/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

GC Semi VOA (Continued)

Prep Batch: 51720 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-51720/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-51720/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 51739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27468-1	BH-42	Total/NA	Solid	8015NM Prep	
880-27468-2	BH-43	Total/NA	Solid	8015NM Prep	
880-27468-3	BH-44	Total/NA	Solid	8015NM Prep	
880-27468-4	BH-45	Total/NA	Solid	8015NM Prep	
880-27468-5	BH-46	Total/NA	Solid	8015NM Prep	
880-27468-6	BH-47	Total/NA	Solid	8015NM Prep	
880-27468-7	BH-48	Total/NA	Solid	8015NM Prep	
880-27468-8	BH-49	Total/NA	Solid	8015NM Prep	
880-27468-9	BH-50	Total/NA	Solid	8015NM Prep	
880-27468-10	BH-51	Total/NA	Solid	8015NM Prep	
880-27468-11	BH-52	Total/NA	Solid	8015NM Prep	
880-27468-12	BH-53	Total/NA	Solid	8015NM Prep	
880-27468-13	BH-54	Total/NA	Solid	8015NM Prep	
880-27468-14	BH-55	Total/NA	Solid	8015NM Prep	
880-27468-15	BH-56	Total/NA	Solid	8015NM Prep	
880-27468-16	BH-57	Total/NA	Solid	8015NM Prep	
880-27468-17	BH-58	Total/NA	Solid	8015NM Prep	
880-27468-18	BH-59	Total/NA	Solid	8015NM Prep	
880-27468-19	BH-60	Total/NA	Solid	8015NM Prep	
880-27468-20	BH-61	Total/NA	Solid	8015NM Prep	
MB 880-51739/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-51739/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-51739/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-27468-1 MS	BH-42	Total/NA	Solid	8015NM Prep	
880-27468-1 MSD	BH-42	Total/NA	Solid	8015NM Prep	

Prep Batch: 51760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27468-21	BH-62	Total/NA	Solid	8015NM Prep	
880-27468-22	BH-63	Total/NA	Solid	8015NM Prep	
880-27468-23	SW-72	Total/NA	Solid	8015NM Prep	
MB 880-51760/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-51760/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-51760/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 51776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27468-24	SW-73	Total/NA	Solid	8015B NM	51720
MB 880-51720/1-A	Method Blank	Total/NA	Solid	8015B NM	51720
LCS 880-51720/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	51720
LCSD 880-51720/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	51720

Analysis Batch: 51778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27468-1	BH-42	Total/NA	Solid	8015B NM	51739
880-27468-2	BH-43	Total/NA	Solid	8015B NM	51739

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QC Association Summary

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

GC Semi VOA (Continued)

Analysis Batch: 51778 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27468-3	BH-44	Total/NA	Solid	8015B NM	51739
880-27468-4	BH-45	Total/NA	Solid	8015B NM	51739
880-27468-5	BH-46	Total/NA	Solid	8015B NM	51739
880-27468-6	BH-47	Total/NA	Solid	8015B NM	51739
880-27468-7	BH-48	Total/NA	Solid	8015B NM	51739
880-27468-8	BH-49	Total/NA	Solid	8015B NM	51739
880-27468-9	BH-50	Total/NA	Solid	8015B NM	51739
880-27468-10	BH-51	Total/NA	Solid	8015B NM	51739
880-27468-11	BH-52	Total/NA	Solid	8015B NM	51739
880-27468-12	BH-53	Total/NA	Solid	8015B NM	51739
880-27468-13	BH-54	Total/NA	Solid	8015B NM	51739
880-27468-14	BH-55	Total/NA	Solid	8015B NM	51739
880-27468-15	BH-56	Total/NA	Solid	8015B NM	51739
880-27468-16	BH-57	Total/NA	Solid	8015B NM	51739
880-27468-17	BH-58	Total/NA	Solid	8015B NM	51739
880-27468-18	BH-59	Total/NA	Solid	8015B NM	51739
880-27468-19	BH-60	Total/NA	Solid	8015B NM	51739
880-27468-20	BH-61	Total/NA	Solid	8015B NM	51739
880-27468-21	BH-62	Total/NA	Solid	8015B NM	51760
880-27468-22	BH-63	Total/NA	Solid	8015B NM	51760
880-27468-23	SW-72	Total/NA	Solid	8015B NM	51760
MB 880-51739/1-A	Method Blank	Total/NA	Solid	8015B NM	51739
MB 880-51760/1-A	Method Blank	Total/NA	Solid	8015B NM	51760
LCS 880-51739/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	51739
LCS 880-51760/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	51760
LCSD 880-51739/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	51739
LCSD 880-51760/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	51760
880-27468-1 MS	BH-42	Total/NA	Solid	8015B NM	51739
880-27468-1 MSD	BH-42	Total/NA	Solid	8015B NM	51739

Analysis Batch: 51845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27468-1	BH-42	Total/NA	Solid	8015 NM	
880-27468-2	BH-43	Total/NA	Solid	8015 NM	
880-27468-3	BH-44	Total/NA	Solid	8015 NM	
880-27468-4	BH-45	Total/NA	Solid	8015 NM	
880-27468-5	BH-46	Total/NA	Solid	8015 NM	
880-27468-6	BH-47	Total/NA	Solid	8015 NM	
880-27468-7	BH-48	Total/NA	Solid	8015 NM	
880-27468-8	BH-49	Total/NA	Solid	8015 NM	
880-27468-9	BH-50	Total/NA	Solid	8015 NM	
880-27468-10	BH-51	Total/NA	Solid	8015 NM	
880-27468-11	BH-52	Total/NA	Solid	8015 NM	
880-27468-12	BH-53	Total/NA	Solid	8015 NM	
880-27468-13	BH-54	Total/NA	Solid	8015 NM	
880-27468-14	BH-55	Total/NA	Solid	8015 NM	
880-27468-15	BH-56	Total/NA	Solid	8015 NM	
880-27468-16	BH-57	Total/NA	Solid	8015 NM	
880-27468-17	BH-58	Total/NA	Solid	8015 NM	
880-27468-18	BH-59	Total/NA	Solid	8015 NM	
880-27468-19	BH-60	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

GC Semi VOA (Continued)

Analysis Batch: 51845 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27468-20	BH-61	Total/NA	Solid	8015 NM	
880-27468-21	BH-62	Total/NA	Solid	8015 NM	
880-27468-22	BH-63	Total/NA	Solid	8015 NM	
880-27468-23	SW-72	Total/NA	Solid	8015 NM	
880-27468-24	SW-73	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 51741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27468-21	BH-62	Soluble	Solid	DI Leach	
880-27468-22	BH-63	Soluble	Solid	DI Leach	
880-27468-23	SW-72	Soluble	Solid	DI Leach	
880-27468-24	SW-73	Soluble	Solid	DI Leach	
MB 880-51741/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-51741/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-51741/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-27468-21 MS	BH-62	Soluble	Solid	DI Leach	
880-27468-21 MSD	BH-62	Soluble	Solid	DI Leach	

Leach Batch: 51742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27468-1	BH-42	Soluble	Solid	DI Leach	
880-27468-2	BH-43	Soluble	Solid	DI Leach	
880-27468-3	BH-44	Soluble	Solid	DI Leach	
880-27468-4	BH-45	Soluble	Solid	DI Leach	
880-27468-5	BH-46	Soluble	Solid	DI Leach	
880-27468-6	BH-47	Soluble	Solid	DI Leach	
880-27468-7	BH-48	Soluble	Solid	DI Leach	
880-27468-8	BH-49	Soluble	Solid	DI Leach	
880-27468-9	BH-50	Soluble	Solid	DI Leach	
880-27468-10	BH-51	Soluble	Solid	DI Leach	
880-27468-11	BH-52	Soluble	Solid	DI Leach	
880-27468-12	BH-53	Soluble	Solid	DI Leach	
880-27468-13	BH-54	Soluble	Solid	DI Leach	
880-27468-14	BH-55	Soluble	Solid	DI Leach	
880-27468-15	BH-56	Soluble	Solid	DI Leach	
880-27468-16	BH-57	Soluble	Solid	DI Leach	
880-27468-17	BH-58	Soluble	Solid	DI Leach	
880-27468-18	BH-59	Soluble	Solid	DI Leach	
880-27468-19	BH-60	Soluble	Solid	DI Leach	
880-27468-20	BH-61	Soluble	Solid	DI Leach	
MB 880-51742/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-51742/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-51742/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-27468-1 MS	BH-42	Soluble	Solid	DI Leach	
880-27468-1 MSD	BH-42	Soluble	Solid	DI Leach	
880-27468-11 MS	BH-52	Soluble	Solid	DI Leach	
880-27468-11 MSD	BH-52	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

HPLC/IC

Analysis Batch: 51880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27468-1	BH-42	Soluble	Solid	300.0	51742
880-27468-2	BH-43	Soluble	Solid	300.0	51742
880-27468-3	BH-44	Soluble	Solid	300.0	51742
880-27468-4	BH-45	Soluble	Solid	300.0	51742
880-27468-5	BH-46	Soluble	Solid	300.0	51742
880-27468-6	BH-47	Soluble	Solid	300.0	51742
880-27468-7	BH-48	Soluble	Solid	300.0	51742
880-27468-8	BH-49	Soluble	Solid	300.0	51742
880-27468-9	BH-50	Soluble	Solid	300.0	51742
880-27468-10	BH-51	Soluble	Solid	300.0	51742
880-27468-11	BH-52	Soluble	Solid	300.0	51742
880-27468-12	BH-53	Soluble	Solid	300.0	51742
880-27468-13	BH-54	Soluble	Solid	300.0	51742
880-27468-14	BH-55	Soluble	Solid	300.0	51742
880-27468-15	BH-56	Soluble	Solid	300.0	51742
880-27468-16	BH-57	Soluble	Solid	300.0	51742
880-27468-17	BH-58	Soluble	Solid	300.0	51742
880-27468-18	BH-59	Soluble	Solid	300.0	51742
880-27468-19	BH-60	Soluble	Solid	300.0	51742
880-27468-20	BH-61	Soluble	Solid	300.0	51742
MB 880-51742/1-A	Method Blank	Soluble	Solid	300.0	51742
LCS 880-51742/2-A	Lab Control Sample	Soluble	Solid	300.0	51742
LCSD 880-51742/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	51742
880-27468-1 MS	BH-42	Soluble	Solid	300.0	51742
880-27468-1 MSD	BH-42	Soluble	Solid	300.0	51742
880-27468-11 MS	BH-52	Soluble	Solid	300.0	51742
880-27468-11 MSD	BH-52	Soluble	Solid	300.0	51742

Analysis Batch: 51881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27468-21	BH-62	Soluble	Solid	300.0	51741
880-27468-22	BH-63	Soluble	Solid	300.0	51741
880-27468-23	SW-72	Soluble	Solid	300.0	51741
880-27468-24	SW-73	Soluble	Solid	300.0	51741
MB 880-51741/1-A	Method Blank	Soluble	Solid	300.0	51741
LCS 880-51741/2-A	Lab Control Sample	Soluble	Solid	300.0	51741
LCSD 880-51741/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	51741
880-27468-21 MS	BH-62	Soluble	Solid	300.0	51741
880-27468-21 MSD	BH-62	Soluble	Solid	300.0	51741

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Lab Chronicle

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

Client Sample ID: BH-42**Lab Sample ID: 880-27468-1****Date Collected: 04/14/23 00:00****Matrix: Solid****Date Received: 04/21/23 11:26**

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	51842	04/24/23 11:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51793	04/25/23 02:17	MNR	EET MID
Total/NA	Prep	5035			4.99 g	5 mL	51701	04/21/23 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/21/23 16:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51862	04/24/23 15:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			51845	04/24/23 12:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51739	04/21/23 14:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51778	04/22/23 11:40	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	51742	04/21/23 14:38	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51880	04/25/23 00:08	SMC	EET MID

Client Sample ID: BH-43**Lab Sample ID: 880-27468-2****Date Collected: 04/14/23 00:00****Matrix: Solid****Date Received: 04/21/23 11:26**

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	51842	04/24/23 11:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51793	04/25/23 02:38	MNR	EET MID
Total/NA	Prep	5035			5.02 g	5 mL	51701	04/21/23 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/21/23 17:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51862	04/24/23 15:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			51845	04/24/23 12:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51739	04/21/23 14:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51778	04/22/23 12:45	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	51742	04/21/23 14:38	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51880	04/25/23 00:22	SMC	EET MID

Client Sample ID: BH-44**Lab Sample ID: 880-27468-3****Date Collected: 04/14/23 00:00****Matrix: Solid****Date Received: 04/21/23 11:26**

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	51701	04/21/23 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/21/23 17:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51862	04/24/23 15:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			51845	04/24/23 12:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	51739	04/21/23 14:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51778	04/22/23 13:07	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	51742	04/21/23 14:38	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51880	04/25/23 00:27	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

Client Sample ID: BH-45**Lab Sample ID: 880-27468-4****Date Collected: 04/14/23 00:00****Matrix: Solid****Date Received: 04/21/23 11:26**

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	51842	04/24/23 11:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51793	04/25/23 04:00	MNR	EET MID
Total/NA	Prep	5035			5.01 g	5 mL	51701	04/21/23 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/21/23 18:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51862	04/24/23 15:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			51845	04/24/23 12:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	51739	04/21/23 14:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51778	04/22/23 13:28	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	51742	04/21/23 14:38	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51880	04/25/23 00:31	SMC	EET MID

Client Sample ID: BH-46**Lab Sample ID: 880-27468-5****Date Collected: 04/14/23 00:00****Matrix: Solid****Date Received: 04/21/23 11:26**

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	51701	04/21/23 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/21/23 18:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51862	04/24/23 15:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			51845	04/24/23 12:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	51739	04/21/23 14:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51778	04/22/23 13:50	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	51742	04/21/23 14:38	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51880	04/25/23 00:36	SMC	EET MID

Client Sample ID: BH-47**Lab Sample ID: 880-27468-6****Date Collected: 04/14/23 00:00****Matrix: Solid****Date Received: 04/21/23 11:26**

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	51842	04/24/23 11:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51793	04/25/23 04:21	MNR	EET MID
Total/NA	Prep	5035			4.99 g	5 mL	51701	04/21/23 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/21/23 18:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51862	04/24/23 15:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			51845	04/24/23 12:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	51739	04/21/23 14:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51778	04/22/23 14:12	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	51742	04/21/23 14:38	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51880	04/25/23 00:50	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

Client Sample ID: BH-48

Lab Sample ID: 880-27468-7

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

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	51701	04/21/23 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/21/23 19:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51862	04/24/23 15:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			51845	04/24/23 12:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51739	04/21/23 14:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51778	04/22/23 14:34	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	51742	04/21/23 14:38	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51880	04/25/23 00:54	SMC	EET MID

Client Sample ID: BH-49

Lab Sample ID: 880-27468-8

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

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	51701	04/21/23 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/21/23 19:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51862	04/24/23 15:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			51845	04/24/23 12:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51739	04/21/23 14:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51778	04/22/23 14:55	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	51742	04/21/23 14:38	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51880	04/25/23 00:59	SMC	EET MID

Client Sample ID: BH-50

Lab Sample ID: 880-27468-9

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

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	51842	04/24/23 11:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51793	04/25/23 04:41	MNR	EET MID
Total/NA	Prep	5035			4.98 g	5 mL	51701	04/21/23 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/21/23 20:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51862	04/24/23 15:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			51845	04/24/23 12:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51739	04/21/23 14:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51778	04/22/23 15:17	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	51742	04/21/23 14:38	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51880	04/25/23 01:03	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

Client Sample ID: BH-51**Lab Sample ID: 880-27468-10****Date Collected: 04/14/23 00:00****Matrix: Solid****Date Received: 04/21/23 11:26**

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	51701	04/21/23 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/21/23 20:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51862	04/24/23 15:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			51845	04/24/23 12:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	51739	04/21/23 14:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51778	04/22/23 15:39	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	51742	04/21/23 14:38	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51880	04/25/23 01:08	SMC	EET MID

Client Sample ID: BH-52**Lab Sample ID: 880-27468-11****Date Collected: 04/14/23 00:00****Matrix: Solid****Date Received: 04/21/23 11:26**

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	51842	04/24/23 11:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51793	04/25/23 05:02	MNR	EET MID
Total/NA	Prep	5035			5.03 g	5 mL	51701	04/21/23 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/21/23 22:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51862	04/24/23 15:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			51845	04/24/23 12:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51739	04/21/23 14:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51778	04/22/23 16:21	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	51742	04/21/23 14:38	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51880	04/25/23 01:12	SMC	EET MID

Client Sample ID: BH-53**Lab Sample ID: 880-27468-12****Date Collected: 04/14/23 00:00****Matrix: Solid****Date Received: 04/21/23 11:26**

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	51701	04/21/23 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/21/23 22:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51862	04/24/23 15:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			51845	04/24/23 12:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	51739	04/21/23 14:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51778	04/22/23 16:42	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	51742	04/21/23 14:38	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51880	04/25/23 01:26	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

Client Sample ID: BH-54**Lab Sample ID: 880-27468-13****Date Collected: 04/14/23 00:00****Matrix: Solid****Date Received: 04/21/23 11:26**

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	51701	04/21/23 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/21/23 23:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51862	04/24/23 15:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			51845	04/24/23 12:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51739	04/21/23 14:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51778	04/22/23 17:03	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	51742	04/21/23 14:38	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51880	04/25/23 01:31	SMC	EET MID

Client Sample ID: BH-55**Lab Sample ID: 880-27468-14****Date Collected: 04/14/23 00:00****Matrix: Solid****Date Received: 04/21/23 11:26**

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	51701	04/21/23 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/21/23 23:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51862	04/24/23 15:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			51845	04/24/23 12:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51739	04/21/23 14:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51778	04/22/23 17:25	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	51742	04/21/23 14:38	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51880	04/25/23 01:44	SMC	EET MID

Client Sample ID: BH-56**Lab Sample ID: 880-27468-15****Date Collected: 04/14/23 00:00****Matrix: Solid****Date Received: 04/21/23 11:26**

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	51701	04/21/23 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/22/23 00:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51862	04/24/23 15:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			51845	04/24/23 12:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51739	04/21/23 14:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51778	04/22/23 17:46	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	51742	04/21/23 14:38	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51880	04/25/23 01:49	SMC	EET MID

Client Sample ID: BH-57**Lab Sample ID: 880-27468-16****Date Collected: 04/14/23 00:00****Matrix: Solid****Date Received: 04/21/23 11:26**

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	51701	04/21/23 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/22/23 00:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51862	04/24/23 15:27	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

Client Sample ID: BH-57

Lab Sample ID: 880-27468-16

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

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			51845	04/24/23 12:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	51739	04/21/23 14:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51778	04/22/23 18:08	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	51742	04/21/23 14:38	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51880	04/25/23 01:53	SMC	EET MID

Client Sample ID: BH-58

Lab Sample ID: 880-27468-17

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

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	51701	04/21/23 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/22/23 01:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51862	04/24/23 15:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			51845	04/24/23 12:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51739	04/21/23 14:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51778	04/22/23 18:29	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	51742	04/21/23 14:38	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51880	04/25/23 01:58	SMC	EET MID

Client Sample ID: BH-59

Lab Sample ID: 880-27468-18

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

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	51701	04/21/23 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/22/23 01:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51862	04/24/23 15:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			51845	04/24/23 12:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51739	04/21/23 14:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51778	04/22/23 18:51	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	51742	04/21/23 14:38	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51880	04/25/23 02:02	SMC	EET MID

Client Sample ID: BH-60

Lab Sample ID: 880-27468-19

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

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	51701	04/21/23 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/22/23 01:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51862	04/24/23 15:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			51845	04/24/23 12:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51739	04/21/23 14:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51778	04/22/23 19:13	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

Client Sample ID: BH-60

Lab Sample ID: 880-27468-19

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	51742	04/21/23 14:38	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51880	04/25/23 02:07	SMC	EET MID

Client Sample ID: BH-61

Lab Sample ID: 880-27468-20

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

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	51701	04/21/23 11:56	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51713	04/22/23 02:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51862	04/24/23 15:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			51845	04/24/23 12:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51739	04/21/23 14:33	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51778	04/22/23 19:34	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	51742	04/21/23 14:38	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	51880	04/25/23 02:12	SMC	EET MID

Client Sample ID: BH-62

Lab Sample ID: 880-27468-21

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

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	51700	04/21/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51664	04/22/23 05:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51862	04/24/23 14:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			51845	04/24/23 12:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51760	04/21/23 16:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51778	04/23/23 02:36	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	51741	04/21/23 14:36	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51881	04/24/23 21:29	SMC	EET MID

Client Sample ID: BH-63

Lab Sample ID: 880-27468-22

Date Collected: 04/14/23 00:00

Matrix: Solid

Date Received: 04/21/23 11:26

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	51700	04/21/23 11:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51664	04/22/23 06:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51862	04/24/23 14:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			51845	04/24/23 12:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51760	04/21/23 16:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51778	04/23/23 02:56	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	51741	04/21/23 14:36	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	51881	04/24/23 21:42	SMC	EET MID

Eurofins Midland

Lab Chronicle

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

Client Sample ID: SW-72
Date Collected: 04/14/23 00:00
Date Received: 04/21/23 11:26

Lab Sample ID: 880-27468-23
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	51667	04/21/23 12:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51665	04/21/23 18:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51862	04/24/23 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			51845	04/24/23 12:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51760	04/21/23 16:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51778	04/23/23 03:17	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	51741	04/21/23 14:36	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51881	04/24/23 21:47	SMC	EET MID

Client Sample ID: SW-73
Date Collected: 04/14/23 00:00
Date Received: 04/21/23 11:26

Lab Sample ID: 880-27468-24
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			5.03 g	5 mL	51667	04/21/23 12:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51665	04/21/23 18:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51862	04/24/23 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			51845	04/24/23 11:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51720	04/21/23 14:02	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51776	04/23/23 02:56	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	51741	04/21/23 14:36	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51881	04/24/23 21:51	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

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	T104704400-22-25	06-30-23
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

Method Summary

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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:

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

Sample Summary

Client: GHD Services Inc.
Project/Site: McElvain

Job ID: 880-27468-1
SDG: 12592305

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-27468-1	BH-42	Solid	04/14/23 00:00	04/21/23 11:26
880-27468-2	BH-43	Solid	04/14/23 00:00	04/21/23 11:26
880-27468-3	BH-44	Solid	04/14/23 00:00	04/21/23 11:26
880-27468-4	BH-45	Solid	04/14/23 00:00	04/21/23 11:26
880-27468-5	BH-46	Solid	04/14/23 00:00	04/21/23 11:26
880-27468-6	BH-47	Solid	04/14/23 00:00	04/21/23 11:26
880-27468-7	BH-48	Solid	04/14/23 00:00	04/21/23 11:26
880-27468-8	BH-49	Solid	04/14/23 00:00	04/21/23 11:26
880-27468-9	BH-50	Solid	04/14/23 00:00	04/21/23 11:26
880-27468-10	BH-51	Solid	04/14/23 00:00	04/21/23 11:26
880-27468-11	BH-52	Solid	04/14/23 00:00	04/21/23 11:26
880-27468-12	BH-53	Solid	04/14/23 00:00	04/21/23 11:26
880-27468-13	BH-54	Solid	04/14/23 00:00	04/21/23 11:26
880-27468-14	BH-55	Solid	04/14/23 00:00	04/21/23 11:26
880-27468-15	BH-56	Solid	04/14/23 00:00	04/21/23 11:26
880-27468-16	BH-57	Solid	04/14/23 00:00	04/21/23 11:26
880-27468-17	BH-58	Solid	04/14/23 00:00	04/21/23 11:26
880-27468-18	BH-59	Solid	04/14/23 00:00	04/21/23 11:26
880-27468-19	BH-60	Solid	04/14/23 00:00	04/21/23 11:26
880-27468-20	BH-61	Solid	04/14/23 00:00	04/21/23 11:26
880-27468-21	BH-62	Solid	04/14/23 00:00	04/21/23 11:26
880-27468-22	BH-63	Solid	04/14/23 00:00	04/21/23 11:26
880-27468-23	SW-72	Solid	04/14/23 00:00	04/21/23 11:26
880-27468-24	SW-73	Solid	04/14/23 00:00	04/21/23 11:26



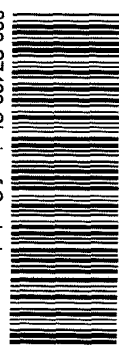
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Environment Testing
Xerco

Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300
Midland TX (432) 704-5440 San Antonio TX (210) 509-3333
El Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

880-27468 Chain of Custody



www.xenco.com Page 1 of 1

Project Manager	Stephen Asante-Ansong	Bill to (if different)	
Company Name	GHD	Company Name	
Address	6121 Indian School Rd NE St 200	Address	
City, State ZIP	Albuquerque, NM 87110	City, State ZIP	
Phone	(281)386-7158	Email	Stephen.Asante-ansong@ghd.com

Work Order Comments			
Program	UST/PST ☐	PRP ☐	Brownfields ☐ RRC ☐ Superfund ☐
State of Project			
Reporting Level II	☐	Level III ☐	PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables. EDD	☐	Adapt	☐ Other

[illegible][illegible]

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 ₂	Na	Sr	Ti	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP	6010	8RCRA	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U					Hg	1631 / 245	1 / 7470	1 / 7471					

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 <i>D. [Signature]</i>	<i>[Signature]</i>	4/21/93	2		
3		11/82	4		
5			6		



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Envio test
Xenico

Houston TX (261) 240-4200 Dallas TX (214) 902-0300
Midland, TX (432) 704-5440 San Antonio TX (210) 509-3334
El Paso TX (915) 585-3443 Lubbock TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Chain of Custody

Work Order No:

30472

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Page 2 of 2

Project Manager	Stephen Asante-Ansong	Bill to (if different)	
Company Name	GHD	Company Name	
Address	6121 Indian School Rd NE St 200	Address	
City State ZIP	Albuquerque, NM 87110	City State ZIP	
Phone	(281)386-7158	Email	Stephen.Asante-ansong@ghd.com

Work Order Comments	
Program	USTR/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project	
Reporting Level	Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables	EDD ☐ ADAPT ☐ Other ☐

Project Name	MCE/IVain	Turn Around		Pres. Code	ANALYSIS REQUEST										Preservative Codes		
Project Number	12592305	☒ Routine	☐ Rush												None NO	DI Water H ₂ O	
Project Location	Artesia, NM	Due Date		3-day TAT											Cool Cool	MeOH Me	
Sampler's Name	Daniel Sparks	TAT starts the day received by the lab if received by 4:30pm													HCL HC	HNO ₃ HN	
PO #															H ₂ SO ₄ H ₂	NaOH Na	
SAMPLE RECEIPT		Temp Blank	Yes ☒ No ☐	Wet Ice	Yes ☐ No ☒											H ₃ PO ₄ HP	
Samples Received Intact	Yes ☒ No ☐	Thermometer ID	1108										NaHSO ₄ NABIS				
Cooler Custody Seals	Yes ☐ No ☒	Correction Factor	-0.3										Na ₂ S ₂ O ₃ NaSO ₃				
Sample Custody Seals	Yes ☐ No ☒	Temperature Reading	5.3										Zn Acetate+NaOH Zn				
Total Containers		Corrected Temperature	5.0										NaOH+Ascorbic Acid SAPC				

[illegible]

Total	200.7 / 6010	200.8 / 6020:

8RCRA 13

was 11 Al S

Be B Cd C:

Cu Fe Pb N

o NIK Se A

Na Sr Ti Sn

1000

Circle Method(s) and Metal(s) to be analyzed

TCLP /

08RCRA

a Be Cd Cr

pb Mn Mo N

TU

245 1 / 7470

Notice: Signature or this document not relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xencro, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xencro 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 Xencro. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xencro but not analyzed. These terms will be enforced unless previously negotiated.

p.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 <i>D. J. [Signature]</i>	<i>[Signature]</i>	4/21/13	2		
3		11/20	4		
5			6		



eurofins

Wendell Thomas
Xenoco

Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300
Midland TX (432) 704-5440 San Antonio TX (210) 509-3333
El Paso TX (915) 585-3443 Lubbock TX (806) 794-1296
Hobbs NM (575) 392 7550 Carlsbad NM (575) 988-3199

Work Order No:

3044f

www.xenco.com Page 3 of 3

Project Manager	Stephen Asante-Ansong	Bill to (if different)	
Company Name	GHD	Company Name	
Address	6121 Indian School Rd NE St 200	Address	
City, State ZIP	Albuquerque, NM 87110	City, State ZIP	
Phone	(281)386-7158	Email	Stephen.Asante-ansong@ghd.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project	
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables EDD ☐ ADAPT ☐ Other	

[illegible]

Signature of this document and relinquishment of 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 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 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 with Eurofins Xeno.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	4/21/05	2		
3 <i>[Signature]</i>		11/22/04	4		
5			6		

Login Sample Receipt Checklist

Client: GHD Services Inc.

Job Number: 880-27468-1

SDG Number: 12592305

Login Number: 27468

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Midland

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

Attachment D

Photo Logs

Site Photographs



Photo 1



Photo 2



Photo 3

Attachment E

Sampling Notifications

From: [Enviro, OCD, EMNRD](#)
To: [J.T. Murrey](#)
Cc: [Nobui, Jennifer, EMNRD](#); [Bratcher, Michael, EMNRD](#)
Subject: RE: [EXTERNAL] nAPP2223063600 Sample Notification
Date: Wednesday, February 8, 2023 4:27:53 PM
Attachments: [image007.png](#)
[image008.png](#)
[image009.png](#)
[image010.png](#)
[image011.png](#)

J.T.

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
<http://www.emnrd.nm.gov>



From: J.T. Murrey <JT.Murrey@ghd.com>
Sent: Wednesday, February 8, 2023 2:13 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: J.T. Murrey <JT.Murrey@ghd.com>
Subject: [EXTERNAL] nAPP2223063600 Sample Notification

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

To Whom it May Concern,

GHD on behalf of Delek Logistics, respectfully submits notification of sampling to be conducted at the below location:

Delek – McElvain LACT Release Site
nAPP2223063600
Release Date: 8-18-22
P-30-18S-34E
Lea County

Soil screening/sampling will begin at 10:00 a.m. on Monday, February 13, 2023 through Friday, February 17, 2023.

Thanks

J.T. Murrey

GHD

Proudly employee-owned | ghd.com

2135 S. Loop 250 West, Midland, TX 79703 USA

M 361 252 6136 | E jt.murrey@ghd.com

GHD FIRST 24 Hour Emergency Response

US: 866 812 9565

Canada: 800 679 9082

→ The Power of Commitment

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From: [Enviro, OCD, EMNRD](#)
To: [J.T. Murrey](#)
Cc: [Bratcher, Michael, EMNRD](#); [Nobui, Jennifer, EMNRD](#)
Subject: RE: [EXTERNAL] RE: nAPP2223063600 Sample Notification
Date: Wednesday, April 12, 2023 9:36:52 AM
Attachments: [image007.png](#)
[image008.png](#)
[image009.png](#)
[image010.png](#)
[image011.png](#)

J.T.

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
<http://www.emnrd.nm.gov>



From: J.T. Murrey <JT.Murrey@ghd.com>
Sent: Tuesday, April 11, 2023 3:09 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] RE: nAPP2223063600 Sample Notification

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

To Whom it May Concern,

GHD on behalf of Delek Logistics, respectfully submits notification of sampling to be conducted at the below location:

Delek – McElvain LACT Release Site
nAPP2223063600
Release Date: 8-18-22
P-30-18S-34E
Lea County

Soil screening/sampling will begin at 10:00 a.m. on Friday, April 14, 2023.

Thanks

J.T. Murrey

GHD

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2135 S. Loop 250 West, Midland, TX 79703 USA

M 361 252 6136 | E jt.murrey@ghd.com

GHD FIRST 24 Hour Emergency Response

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From: J.T. Murrey <JT.Murrey@ghd.com>

Sent: Wednesday, February 8, 2023 3:13 PM

To: OCD.enviro@state.nm.us

Cc: J.T. Murrey <JT.Murrey@ghd.com>

Subject: nAPP2223063600 Sample Notification

To Whom it May Concern,

GHD on behalf of Delek Logistics, respectfully submits notification of sampling to be conducted at the below location:

Delek – McElvain LACT Release Site

nAPP2223063600

Release Date: 8-18-22

P-30-18S-34E

Lea County

Soil screening/sampling will begin at 10:00 a.m. on Monday, February 13, 2023 through Friday, February 17, 2023.

Thanks

J.T. Murrey

GHD

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2135 S. Loop 250 West, Midland, TX 79703 USA

M 361 252 6136 | E jt.murrey@ghd.com

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

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

CONDITIONS

Action 243603

CONDITIONS

Operator: DKL Energy - Cottonwood, LLC 7102 Commerce Way Brentwood, TN 37027	OGRID: 330291
	Action Number: 243603
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	Area around LACT unit represented by sample ID's SW-47 and SW-49 through SW-57 approved for deferral. Site will need to be remediated and then reclaimed at time of a major facility deconstruction or at plugging and abandonment, whichever comes first.	2/2/2024